





Jordan Government Websites Guidelines 2022



Ministry of Digital Economy and Entrepreneurship Version: V2.0 Submission Date: 29/11/2022

Proprietary Information

Echo Technology LLC. and Echo Soft Technology, Al-Sada lel tecnologya and Echo Technology Logo registered trademarks. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and/or the names of their products. The Echo Technology disclaims proprietary interest in the marks and names of others.

The information in this document has been reviewed and is believed to be accurate. However, neither Echo Technology nor its affiliates assume any responsibility for inaccuracies, errors, or omissions that may be contained herein. In no event will Echo Technologies or its affiliates be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this document, even if advised of the possibility of such damage.

Echo Technology reserves the right to make improvements or changes to this document and information contained within, and to the products and services described at any time, without notice or obligation.

Echo Technology LLC. understands that any award to supply the products / provide the services that are the subject of this proposal are subject to the mutual execution of a definitive written agreement.

All information supplied for the purpose of this document is to be considered Echo Technology confidential.

This Proprietary Information, presented on this page, is an integral part of this document. Should this page of the document, in its electronic or printed formats, be lost, deleted, destroyed, or otherwise discarded, this disclaimer statement applies despite the consequences. © Copyright Echo Technology LLC. (2022)

Document History

Document Prop	Document Properties					
Item	Details					
Released for	Ministry of Digital Economy and Entrepreneurship					
Project Name	Jordan Government Websites Guidelines 2022					
Classification	Limited Distribution					
Ref #	GWS_2022-Modee-V2.0-EN					
Author	Echo Technology					
Creation Date	-					
Last Update	29/11/22					

Change History						
Version	Date	Summary of Change	Updated by	Comments		
V0.1	15/10/22	Update Component 1 according to WCAG 2.1	Ebaa.Z			
V0.11	15/10/22	Document structure review				
V0.12	18/10/22	Review and update Component 1	Reema.O			
V0.13	20/10/22	Review and update Component 2	Ebaa.Z			
V0.121	20/10/22	Review and update Component 3	Ebaa.Z			
V0.14	25/10/22	Update and approve changes Component 1,2,3	Alaa.a			
V0.15	1/11/22	Review Component 4	Lana.b			
V0.16	5/11/22	Update Component 5	Mohd.d			
V0.17	7/11/22	Update and approve Component 5	Alaa.a			
V0.18	9/11/22	Review and update	Yousef.a			
V1.0	10/11/22	Approve Release	Alaa.a			
V1.0.1	29/11/22	Update Component 1, 4, 5 to meet WCAG accessibility, reviewed and reflected MODEE updates,	Ebaa.Z , Reema.o			
V2.0	29/11/22	Approve Release	Alaa.a			

Approval	Approval						
Version	Date	Approved by	On behalf of	Status			

Table of Contents

Glossary Terms	9
Executive Summary	
Introduction	11
Jordan Government Website Standards 2022	11
How to Use this Document	
What's New in GWS 2022	14
Suggestions and Enhancement	14
Component 1: Accessibility	
A.1.1 - Domain Naming Conventions and Uniform Resource Locators	
Domain Name Structure	
Naming Conventions	
Domain Binding and Access Protocols	
Directory Path and Page Names	
A.1.2 Discoverability and Search Engine Optimization	
A.1.3 Cross Browsing and Screen Resolution	20
A.1.4 Access to Language	21
A.1.5 eAccessibility Actions	22
A.1.6 Enable social media	26
A.1.7 RSS Feeds Subscription	27
A.1.8 Web Performance	28
Component 2: Usability and Design	29
U.2.1 Site Navigation and Effective Sitemap	29
Site Menus	
Page Side Menus	
Breadcrumbs Bar	
Tab Navigation	
Return to Homepage	
Sitemap	

U.2.2 Homepage	
U.2.3 Search Functionality	
U.2.4 The Use of Icons - Iconography	
U.2.5 Images for Web	
U.2.6 Web Audio and Videos	
U.2.7 Web Forms	
U.2.8 Animation	
U.2.9 Web Design	
U.2.10 Web Analysis	
Component 3: Content and Site Architecture	
C.3.1 Sitemap	
C.3.2 Site Pages	
Informative Site Pages	
List	
Services Guide	
Branches Guide	
C.3.3 Downloadable Files	
C.3.4 Contact Information	
C.3.5 Cross Government Information	
C.3.6 FAQ	
C.3.7 Website Policies	
Privacy Policy	
Copyrights	
Copyrights Statement	
Terms of Use	
Disclaimer	
Accessibility	
Cookies Policy	
C.3.8 Content Management System	

_

-

Component 4: Responsive Web Design	79
R.4.1 Design for Mobile	80
R.4.2 Content	85
Component 5: Website Security	86
WS.5.1 OWASP Top 10	87
WS.5.2 HTTPS Protocol	
WS.5.3 Software Updates	
WS.5.4 Restrict File Uploads	92
WS.5.5 Using Captcha	93
WS.5.6 Users Passwords	94
WS.5.7 Viruses and Malware	95
WS.5.8 Adjust Default Settings	95
WS.5.9 Error Messages	96
WS.5.10 Secure APIs	96
WS.5.11 Security Logging and Auditing	98
WS.5.12 Roles and privileges	98
WS.5.13 Development Environment	98
WS.5.14 Secure communication	99
WS.5.15 Third party software	100

_

_

List of Tables

Table 1 - Meta Tags Types	
Table 2 - Accepted Browsers Versions	20
Table 3 - Types of Disabilities	23
Table 4 - Homepage Components	
Table 5 - Government Website Minimum Content	51
Table 6- Cross Government Information	62
Table 7- Mobile Menus	81
Table 8 - Website Security	

Table of Figures

Figure 1- GWS guidelines overview	
Figure 2 : Domain Name Structure	
Figure 4- Serial Position Effect in Arabic Website	
Figure 5 - Serial Position Effect in English Website	
Figure 6 - Secondary Menu Items	
Figure 7 - Page Side Menu	
Figure 8 - Tab Navigation in English	
Figure 9 - Trade Services Support Icons	
Figure 10 - Action Icons	
Figure 11 - Icons Sets	
Figure 12 - Sitemap Arabic Version	
Figure 13 - Sitemap English Version	
Figure 14 - About Us Example	54
Figure 15 - Responsive Web Design	
Figure 16 - Standards and Responsive Website Pages	80

Glossary Terms

Abbreviations	Description
GWS	Government Websites Standards
URL	Uniform Resource Locators
DNS	Domain Name System
TLD	Top-Level Domain
SLD	Second-Level Domain
XML	Extensible Markup Language
SEO	Search Engine Optimization
HTML	Hypertext Markup Language
HTTP	Hypertext Transfer Protocol
TTFB	Time to First Byte
CSS	Cascading Style Sheet
PDF	Portable Document Format
SVG	Scalable Vector Graphics
PNG	Portable Network Graphic
CVV	Card Verification Value
SMS	Short Message Service
GWDK	Jordan Government Website Design Kit
IA	Information Architecture
FAQ	Frequently Asked Questions
CMS	Content Management System
OWASP	Open Web Application Security Project
HTTPS	Hypertext Transfer Protocol Secure
API	Application Programming Interface
SQL	Structured Query Language
IP	Internet Protocol
ALT Value	Alternative Value
JSON	JavaScript Object Notation

Executive Summary

In an era where online government presence has become increasingly popular, with wide range of audience tend to approach its online services and content rather than traditional methods, it is essential to lead a huge emphasis on facilitating government website visitors' journey and understand their needs.

After the great impact of applying the government website standard 2019 over varuses of governmental entities and in order to maintain the expected level of governmental web presence quality, the need to adhere to the agile environment of international website's standards and guidelines has become vital.

The Jordan Government Websites Standards (GWS) 2022 version focus on implementing number of updates and overall enhancements to make Jordanian government websites more accessible, usable, and user-centric while being easy to apply and comply with.

This version addresses the website design, structure, navigation, and content writing common throughout (43) Guidelines, categorized under (5) Components, which are:

- Accessibility (8 Guidelines)
- Usability and Design (10 Guidelines)
- Content and Site Architecture (8 Guidelines)
- Responsive Web Design (2 Guidelines)
- Web Security (15 Guidelines)

Compliance to these guidelines will ensure a high level of consistency and uniformity in the content coverage and presentation that will lead to further excellence promotion in the Jordanian Government web space, whereby all government entities are strongly encouraged to comply with these guidelines.

Introduction

After the successful release of the Jordanian Government Websites Standard's 2019, and as an act to maintain and keep base with the latest international standards and best practices, a vital need to keep the covenantal standards reference up to date.

whereby the standards and guidelines aim to make the Jordanian government websites more usable, user-centric and universally accessible, in addition to bringing uniformity to the quality of content and provided services.

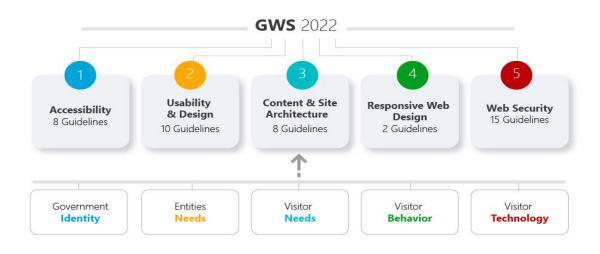
Jordan Government Website Standards 2022

This version is an updated release of the Jordan Government Websites Standards (GWS) 2019, which was prepared and published by the Ministry of Digital Economy and Entrepreneurship in cooperation with Echo Technology.

The 2022 version of the standards is an outcome of studies done on well-known international standards updates and latest recommendations, in addition to users and organizations feedback, surveys and users' behavior analysis over the previous version of the standard performed by Echo Technology, where the main inputs to prepare this document were the following:

- Government Identity.
- The Government Needs.
- The Websites Visitor's Needs.
- The Websites Visitors' Technology.
- The Websites Visitors' Behavior and Expectations.







This GWS consists of (43) Guidelines, categorized under (5) Components. Compliance with these guidelines will not only enhance the quality of the entities' websites but also help in making them easy to use and customer-focused:

Accessibility (8 Guidelines): A government website serves a largely heterogeneous population that comprises users with vastly different learning styles and capability levels. The accessibility guidelines are meant to make the website inclusive and accessible to the widest possible audience.

Usability and Design (10 Guidelines): The branding elements of the governmental websites should convey a single, unified message to all site visitors, where brand elements should include and utilize the entity's imagery, iconography and visual cues while ensuring the best usability for the website design and its components.

Content and Site Architecture (8 Guidelines): The Site Architecture and Content available on a website are very crucial elements in ensuring the success of the website in meeting users' needs and expectations. Having the Content and Site Architecture Guidelines reflected on the website will ensure smooth browsing experience and excellent data flow for the website's visitors.

Responsive Web Design (2 Guidelines): A responsive design allows for a more optimized user experience across desktop and laptop computers as well as smartphones and tablets of varying sizes. The responsive web design guidelines aren't only about making the website look good on different devices but also to facilitate the navigation of the website no matter what device the site visitor is using.

Web Security (15 Guidelines): To secure a website, the website application itself should be secured first, along with the infrastructure and connectivity. This standard document focuses on the requirements of a website application security, the website should be protected and secured, against OWASP Top 10, where the OWASP Top 10 is a regularly updated report outlining security concerns for web application security, focusing on the 10 most critical risks.

How to Use this Document

Governmental entities are expected to read, understand, and implement these guidelines and standards in all their web-based initiatives. Therefore, all governmental websites should be following the minimum essential guidelines mentioned in this document.

Note: The standards are applicable to all governmental websites, regardless of whether its informative or for e-service delivery

What's New in GWS 2022

In this version, the Jordanian Government Entities' web presence gets improved in terms accessibility, usability, transparency, both in design and content. with the following main enhancements:

- Upgraded guidelines supporting e-Accessibly based on WCAG 2.1
- Upgraded web content guidelines and recommendations.
- Upgraded website Policies.
- Compliance with OWSAP Top 10 2021

Suggestions and Enhancement

The Ministry of Digital Economy and Entrepreneurship welcomes suggestions and feedback to improve the quality and content of this document.

Component 1: Accessibility

Web accessibility is the inclusive practice of ensuring there are no barriers that prevent interaction with, or access to, websites on the World Wide Web. When websites are correctly designed, developed, and edited, all site visitors have equal access to the information and functionalities.

A.1.1 - Domain Naming Conventions and Uniform Resource Locators

Domain Naming Conventions and Uniform Resource Locators (URLs)						
Guideline ID: A.1.1						
Development Lifecycle Stage:						
$oxtimes$ Planning \Box Design and Development	Deployment Deprovement Operation					
Website Service Category						
🖾 Informative Website 🖾 e-Services Website						

A domain name is an identification string (address) whereby the users of the internet can access a website on the World Wide Web. Achieving a fully qualified, high-quality, and userfriendly domain name depends on the Domain Name System (DNS) guidelines below:

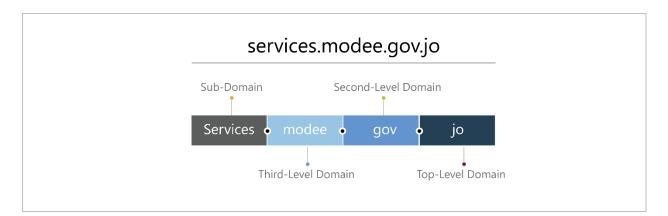
Domain Name Structure

In DNS, a domain name is made up of a hierarchy known as levels. The government domain name must specify four levels:

- Top-Level Domain (TLD): This segment recognizes the country, for example: ".jo".
- Second-Level Domain (SLD): This segment refers to the organization, for example: commercial companies will register under ". com.jo" while governmental entities will register under ". gov.jo".
- Third Level Domain: This segment identifies the specific and unique administrative owner or subject, *for example: "modee.gov.jo"*.

• The Sub-Domain: The segment at the start of the domain that specifies a website section, a department, or a function related to the government entity. *For example: "eservices.modee.gov.jo", "intranet.Modee.gov.jo", "hr.modee.gov.jo".*

The below figure "Figure 1: Domain Name Structure" gives an example on how the domain name should be structured.





Naming Conventions

The government entities' domains must support three types of naming conventions:

- Short English Naming Convention: The government entity must have a domain name that represents the entity's abbreviation. *For example: "www.modee.gov.jo"*.
- Long English Naming Convention: The government entity must have an English domain name that represents the entity's complete name. *For example: "www.digitaleconomy.gov.jo"*.
- Arabic Naming Convention: The government entity must have an Arabic domain name with hyphens separating words. For example:" الإقتصاد-الرقمى-و-الريادة. الأردن.

Domain Binding and Access Protocols

- The domain name must be accessed using Secure Hypertext Transfer Protocol (https) with a valid certificate. *For example:" https://modee.gov.jo "*.
- Websites domain name should be accessed with or without "www" prefix. For example: Website is accessible through both URLs "www.modee.gov.jo" and "modee.gov.jo".

Don't

Publish a website without a Secure Hypertext Transfer Protocol (https) http://modee.gov.jo

Directory Path and Page Names

- It is recommended that the website has a clear directory representing the current URL name. *For example: "www.modee.gov.jo/news "*.
- The page URL must be clear for both English and Arabic pages, where in Arabic the spaces should be replaced by (-). For example: in English
 "www.modee.gov.jo/pages/aboutus", in Arabic "www.mofee.gov.jo/pages/".
- URL can include file extensions as below:
 - .html, .php, .aspx, For example: "www.modee.gov.jo/pages/aboutus.html",
 "www.modee.gov.jo/pages/aboutus.php", " www,mode.gov.jo/pages/aboutus.aspx".



Do Clear path www.modee.gov.jo/page/aboutus



Do

Clear path with file extensions www.modee.gov.jo/page/aboutus.aspx



A.1.2 Discoverability and Search Engine Optimization

Discoverability and Search Engine Optimization								
Guide	Guideline ID: A.1.2							
Devel	lopment Lifecy	cle Stag	ge:					
\boxtimes	Planning		Design	and Development		Deployment	\boxtimes	Operation
Website Service Category								
⊠ Informative Website ⊠ e-Services Website								

Discoverability is the process of making the website and its content highly relevant for both search engines and searchers. It includes tasks that improve the performance and visibility of it and how search engines access the site, including indexing, crawling, schema, page speed, site structure and URL structure to make it easier for search engines to find and index a website by the appropriate keywords:

- Provide a proper Internal Linking for website pages by ensuring that each website page leads to where it is supposed to lead. Inner linking strengthens the overall searchoptimized value of a website.
- Provides XML sitemap and Logical Hierarchy: It offers search engine spiders easy access to web pages and provides visitors with directions for navigating the website.
- Provide SEO friendly URLs by considering the following:
 - Keep URLs simple: Avoid adding too many parameters. The search engines send out simplistic spiders/crawlers that may stop searching if they encounter any obstacles.
 - Links that are no longer working should be corrected or removed. Some of the search engines de-index websites if more than a certain number of links do not work properly.

- Avoid changing the URLs structure and filenames once they are decided and set up.
- Unique, meaningful, and relevant Meta Tags: Meta Tags of Metadata is the HTML markup tags that contain information about a web page. They are placed in the web page's coding to help search engines understand the content of the page, the website should contain the following Meta Tag types:

Meta Tags	Description	Example
Description	These tags contain the description of the	<meta content="this</td></tr><tr><td>Tags</td><td>page being previewed; They should be as</td><td>should be the dynamic unique description of</td></tr><tr><td></td><td>short and descriptive as possible.</td><td>the web page" name="description"/> .
Title Tags	These tags describe the title of the website.	<title> your title here </title>
Keywords	These tags are a set of words that visitors	<meta content="</td" name="Keywords"/>
Tags	will probably enter when looking for the	"FOLLOW, INDEX">
	website, they should be listed and	
	separated by commas (,)	

Table 1 - Meta Tag Types

- The website should have ALT values for all value adding graphical content; each ALT value should be short and meaningful.
- Through the website, each page description should be proper, short, and meaningful, explaining the page's purpose and content.
- Website page title should be well-designed:
 - Headings that begin with 'a', 'an' and "they" should be avoided. Keywords should be used first, as they will be recognized by search engines when ranking results.
 - Webpage content should be properly described using common keywords.
 - Page title should be brief, short, easy to read, and clear.
 - Page title should be according to the website's language (English/Arabic Titles).
- Strong social media presence should be provided; the entity's website should be linked to its social media channels.

- Content should be strong and of high quality. If people want to visit the website, they should have a reason.
- Website should have a strong link building and backlinks strategy to achieve:
 - o More visibility of website pages in search results.
 - More traffic from other websites linked to the website (referral traffic).
 - o Links can help in getting indexed faster in search results.

A.1.3 Cross Browsing and Screen Resolution

Cross Browsing and Screen Resolution
Guideline ID: A.1.3
Development Lifecycle Stage:
oxtimes Planning $oxtimes$ Design and Development $oxtimes$ Implementation $oxtimes$ Operation
Website Service Category
🖾 Informative Website 🖾 e-Services Website

Cross-browsing is to create web pages that are browser independent, so they can be

accessed and viewed in the same layout regardless of the type of browser.

- The website is best viewed at 768×1366 screen resolution.
- Website should comply with the following browsers versions as a minimum:

Browser	Minimum Version to Support
Microsoft Edge	95.0 and above
Firefox	90.0 and above
Safari	14.1 and above
Google Chrome	95.0 and above
Opera	85.0 and above

Table 2 - Accepted Browsers Versions



Make sure to mention a compatibility statement in the website footer that declares both browsers' compatibility and best resolution.

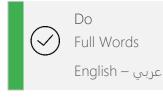
For example: This site supports Microsoft edge, Firefox 3.0+, Safari 3.0+, Google Chrome 12.0. This site is best viewed at a screen resolution of 768 ×1366.

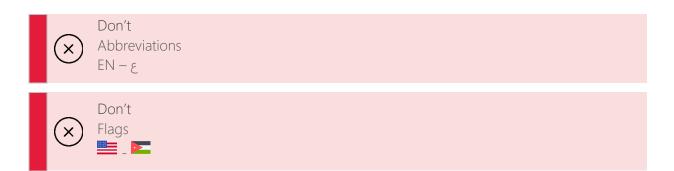
A.1.4 Access to Language

Access to Language			
Guideline ID: A.1.4			
Development Lifecycle Stage:			
🛛 Planning 🖾 Design and Development	Implementation	\boxtimes	Operation
Website Service Category			
🖾 Informative Website 🖾 e-Services Website			

Arabic and English are the most used languages in Jordan. Therefore, all government websites must be bilingual (Arabic and English) at minimum.

- Arabic must be the default website language unless the website is meant to target non-Arabic language site visitors or most of the website visitors and non-Arabic language site visitors.
- Website Pages in English and Arabic don't have to be completely identical in content.
- Site visitors should get a page mentioning that the content isn't available in the selected language.
- All main websites pages must be available in both Languages (Arabic and English).
- The change-language link should be in the website header and consistent in all website pages as below:
 - o Upper-left corner in Arabic version.
 - o Upper-right corner in English version.
- The change-language link should be clear, using full words:
 - o "English" to switch to the English version of the website.
 - o "عربي" to switch to the Arabic version of the website.





- The language change link should always direct the site visitors to the same page in the selected language. If the content doesn't exist in the selected language, site visitors should get a page mentioning that the content isn't available in the selected language.
- For external links and downloadable files, it is preferred to have the site visitor browse files and links of the same language he is using. *For example: If the visitor is browsing the English version of the website, all downloadable files should be in English.*

A.1.5 eAccessibility Actions

eAcce	eAccessibility Actions								
Guide	Guideline ID: A.1.5								
Deve	Development Lifecycle Stage:								
\ge	Planning	\boxtimes	Design	and Development	\boxtimes	Deployment	\boxtimes	Operation	
Webs	Website Service Category								
\boxtimes	Informative	Website		e-Services Website					

Governmental websites should be developed with universal accessibility to allow the site to reach those who are trying to access the website regardless of their abilities, where each individual is unique. People have diverse abilities, skills, tools, preferences, and expectations that can impact how they use the Web some of which are indicated below:

Diverse Abilities	Description
Visual	Blindness, low vision or loss of visual acuity.
Auditory	Complete deafness or some levels of hearing loss.
Cognitive, learning, and	Speech dysfunction, language or learning impairments.
neurological	
Physical	Impaired mobility or loss of fine motor control.

Table 3 - Types of Disabilities

- The website should provide a clear accessibility bar or widget that is consistent and accessible from any page on the website.
- The website text should be capable of being resized up to two-levels without losing content or functionality according to WCAG 2.1 (1.4.4) Each level should decrease/increase font size between 1px up to 2px
- Text spacing is recommended for improved readability for dyslexic and visually impaired users according to WCAG 2.1 (1.4.12). three text spacing level should be deployed (light, moderate and heavily spacing)
- Full color inversion for all site elements must be adopted according to WCAG 2.1 (1.4.1) to provide greater perceived color depth, making texts significantly easier to read while reducing eye strain for color blind and visually impaired users.
- It is recommended to pause content that moves or auto-updates that is considered an accessibility barrier. Stops animations, blinking, and flashing content that distracts and may trigger seizures according to WCAG 2.1 (2.3)

- It is recommended that the standard cursor size should be able to increase by 400% to ensure the pointer always remains in sight, allowing faster and more accessible navigation through hyperlinks, tabs, and form elements.
- Items such as links, buttons, and other interactive elements should have the ability to be highlighted so it can be easily identified by users.
- The website should have the ability to change its default font type to a Dyslexia Friendly Font to improve reading experience for readers with dyslexia.
- Headings, landmarks, and links should be presented and structured in a clear, accessible, and easy to navigate manner according to WCAG 2.1 (2.4)
- It's recommended to have the website supported by screen reader tools to read aloud all page contents.
- The website should be keyboard navigation friendly according to WCAG 2.1, enabling users to navigate web pages using only a keyboard which will make the website content and heading structure (hierarchical, sequential) more accessible.
- The website should provide a keyboard focus functionality which can highlight components and move from one to another in the web page using a keyboard interface
- The website should support the keyboard shortcuts *For example*: (Ctrl + P) prints the webpage.
- A web page should have more than one way to be reached by the website users.

- The website should provide accurate alt values and description for non-text content. The Website admin should approve or modify alt text to ensure it accurately reflects each element. According to WCAG 2.1
- Each interactive form field on the website should be supported by fields labels and attributes that describe intention and expected value to be entered by users. According to WCAG 2.1
- Website forms should notify users of any errors encountered during form submissions, providing contextual info for each field that requires a correction to ensure a successful form submission. According to WCAG 2.
- External links should have an external link Icon (
- Ambiguous links should be avoided, where links titles should be clearly named in a way that describes the direction. According to WCAG 2.1
- Broken links that don't point to live sources are forbidden, links within the website content should be accurate and correct According to WCAG 2.1
- Video Content should have a clear description where it's essential for users who are deaf or have hearing loss to access its content.
- Website heading structure (hierarchical, sequential) should be accessible.
- The website language should be clear and meaningful with no missing language attributes.

- Text alignment should be following to language guide to ensure a personalized and more accessible reading experience
- The website should provide an option to Increase line height to ensure more comfortable spacing for more fluid interaction with on-site texts.
- The use of ARIA tags is highly recommended in the website frontend to Facilitate the assistive technology functions.
- The errors and / or call to actions should not only be conveyed by colors, it should also be explained in clear label or description to assess the users with different abilities

A.1.6 Enable social media

Enable	e social medi	а			
Guidel	line ID: A.1.6				
Develo	opment Lifec	ycle St	age:		
	Planning	\times	Design and Development	Implementation	Operation
Websi	ite Service Ca	ategory	/		
\square	Informative	Websi	te 🛛 e-Services Website		

Social media channels and websites should work seamlessly to promote website accessibility.

Integrating the social website with the website can be managed through the following:

Social Media Buttons

- Having social media buttons on the website is mandatory.
- The social media buttons should be consistently placed at the footer of the website pages, in addition to the "Contact Us "page.
- The social media buttons should be correctly linked to the entity's account.
 Once the button is clicked, the entity's account on social media should be opened in a new browser tab.

Sharing Buttons:

- Sharing buttons are meant to allow the site visitor to share the page's content on his/her personal social media account, where
- sharing buttons are mandatory.
- Sharing buttons should be displayed on the top of each page, where in Arabic it should be shown on the left side of the page and in English on the right side of the page.
- Make sure to add the label "share ", "شارك" next to the buttons, to avoid the site visitors confusing the "Sharing Buttons "with "Social Media Buttons ".

Note: Make sure to have the share buttons placed in articles, news, and topics that is possible to be shared by users not for all content presented on the website

A.1.7 RSS Feeds Subscription

RSS Fe	eed Subscripti	on			
Guidel	line ID: A.1.7				
Develo	opment Lifecy	cle Sta	ge:		
	Planning	\boxtimes	Design and Development	Implementation	Operation
Websi	te Service Cat	egory			
\boxtimes	Informative	Websit	e 🛛 🛛 e-Services Website		

RSS stands for Really Simple Syndication, and it is a simple, standardized content distribution method that can help visitors stay up to date with the website content. It allows people to receive updates to web-based content of interest on visitors' personal pages.

By subscribing, visitors start receiving new content automatically in the feed reader such as news, weather, and stock quotes.

- Standard RSS icon should be visible and clickable, directing the visitor to the RSS page. ${
 m ar{b}}$
- RSS feed should be placed consistently beside the social media icons on the website homepage and accessible from all website pages.
- Government websites should have RSS feature for news as minimum.

A.1.8 Web Performance

Web Performance				
Guideline ID: A.1.8				
Development Lifecycle Stage:				
\square Planning \boxtimes Design and Development	\boxtimes	Deployment	\boxtimes	Operation
Website Service Category				
oxtimes Informative Website $oxtimes$ e-Services Website				

As part of having the website well accessible by site visitors, it should be fast loading and well preforming, where website speed and performance are governed by multiple factors which include the application itself, hosting environment, network, connectivity, site visitor machine, etc....

This standard document focuses on the minimum requirements from the website application's side only. To reach the recommended web pages loading time, which is 9 seconds maximum, the website should have an ideal hosting environment and connectivity.

- The web page's size shouldn't exceed 5 MB.
- HTTP requests should be minimized, in addition to removing all unnecessary redirects and fixing all broken links.
- The time to first byte (TTFB) shouldn't exceed 800ms, where TTFP is measured depending on HTTP request time, process request time, and response time.
- Reducing website images is a must; a single large image shouldn't exceed 150KB, as for small images, they shouldn't exceed 40KB.
- Minify and combine website files, including HTML, CSS, JavaScript, and fonts.
- Using Asynchronous loading for page elements whenever it is possible. With asynchronous loading, files can load simultaneously. If a file takes a while to load, other page elements will still load without any delay.
- Use defer JavaScript when it is possible, which means that the JavaScript is stopped from loading until other pages' elements are loaded.
- Enable browser caching when it is possible.
- Hosting videos on external links like YouTube rather than on the website.

Component 2: Usability and Design

Usability means to make sure that the site visitor will use the website to achieve specified

goals with effectiveness, efficiency, and satisfaction in a specified context of use.

U.2.1 Site Navigation and Effective Sitemap

Site N	Site Navigation and Effective Sitemap								
Guide	eline ID: U.2.1								
Devel	lopment Lifecy	ycle Sta	ge:						
\times	Planning	\boxtimes	Design a	and Development		Deployment	\boxtimes	Operation	
Webs	ite Service Ca	tegory							
\boxtimes	Informative	Website	\geq	e-Services Website					

Navigation is the process that facilitates movement from one web page to another, it acts as the road map to all different areas and information contained within the website. When site navigation is designed properly, it helps visitors make sense of the information environment they are in.

When it comes to usability, ease-of-navigation should be a top priority. Following are the best practices for website navigation to significantly improve website user-experience:

- The website navigation structure should be from the visitor's point of view.
- Navigation should be classic, simple, and predictable. Complex navigation tools should be avoided.
- The website should comply with the "Three Clicks Principle" that states that visitors should need at most three clicks from anywhere in the site to get to what they need.
- Site navigation should be simple enough for the site visitor to understand, but also contain the elements necessary to guide the visitor through the website.
- Navigation menus should be available on all pages within the website.
- Navigation menus should be organized in a meaningful, unambiguous way to display content to users.

- Visitors can reach all website information from navigation menus.
- Navigation menus should support transitional effects such as hover or mouseover effect.
 These effects are seen when a mouse is over a certain element that makes it slide out, change color, or animate.
- Flash for navigation menus is forbidden.

Site Menus

Site menus are the most trusted and most used tool for the site visitors to access the website pages and information.

Main Menu: It is the collection of all main website pages grouped together targeting the main (major) audience of the website. Main menu can be viewed horizontally or vertically. It is highly recommended to have a horizontal main menu.

• The links in the main navigation should lead to pages within the site and behave in a very consistent way.



- The number of menu items should be limited to a maximum of nine, less is even better.
- Serial Position Effect: The most important items should be placed at the beginning and the end of the menu, as for the least important items, they should be placed in the middle. People's attention is highest for things that appear at the beginning and at the end.



Figure 3- Serial Position Effect in Arabic Website





- Make sure to have the About Us at the beginning of the menu and Contact Us at the end of the menu.
- Menu items names should be short and familiar.



Do

Short and familiar menu item name عن الوزارة



Don't Long menu item name عن وزارة الاقتصاد الرقمي والريادة

- In the English version, each word should be capitalized. *For example: "about us" should be "About Us"*.
- Submenus are not preferable; they are considered annoying to the site visitor.
- Navigation Labels should be easily recognized, such as "Home", "About Us", "Contact Us"

etc. Creativity is not recommended in this practice.



Do Easily Pocogniz

Easily Recognized Navigation Labels Home, Contact Us, الأخبار



Creative but Not Easy Navigation Labels Root, The Contacts, الوزارة في الصحافة

• Menu items should expand on click. Expanding the menu on mouse hover should be avoided

Secondary Menu: It is a list of links that takes the site visitor to the website pages directly without grouping them. The secondary menu aims to provide links to secondary (minor) website audiences such as vendors, job seekers, and entity employees.

- The number of menu items should be limited to a maximum of seven, less is even better.
- In the English version, each word should be capitalized. *For example: "tenders" should be "Tenders"*.
- Menu items names should be short and familiar.
- Menu items should have separators. For example, a dot or slash.
- Governmental secondary menu will include:
 - o Site related information.
 - o Information targeting secondary (minor) website audience.

At a minimum, containing the following links:

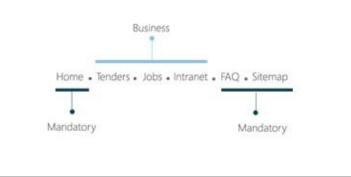


Figure 5 - Secondary Menu Items

Page Side Menus

Pages Side Menu is the navigation menu that might change from one page to another. Its main objective is to show the website visitor additional pages he/she might be interested in. *For example: If a site visitor is browsing "About Us "page, the page side menu should contain "Organization Structure ", "The Minister", etc.*

Page Body	
Breadcrumb	
Content	Page side menu

Figure 6 - Page Side Menu

- Page side menu is preferable not mandatory.
- Page side menu should be placed vertically on the left in the Arabic version and on the right in the English version.

Breadcrumbs Bar

Breadcrumbs are meant to help the users keep track of their locations within the website.

- Breadcrumb should reach a maximum of five levels, reflecting the true hierarchy of the website, not the path users have chosen to arrive at their destinations.
- Breadcrumb should always start with a Homepage link.

Tab Navigation

Tab navigation is where the website navigation links appear as tabs, similar to the tabs used in a binder to divide the contents into sections. It can be used on both homepage and inner pages.

Tab navigation is a useful tool for having the content categorized. *For example: It can be used on the homepage of the website to categorize the service section.*

Item 1 Item 2 Item 3	Item 1
	Item 2
	Item 3
Item Content	Item 4 Item Content

Figure 7 - Tab Navigation in English

- Tabs can be placed horizontally or vertically.
- Horizontal tabs should be ordered left-to-right in the English version, and right-to-left in the Arabic version.
- The number of tabs should not exceed five.
- Tab titles should be short and familiar.

Return to Homepage

Homepage is very essential for the visitors; for that, the websites should have a One-Click link to the homepage.

- The website logo should be clickable, directing the site visitor to the homepage.
- The secondary menu should contain a home link.
- Breadcrumbs should always start with the homepage link.

Sitemap

Sitemap is a representation of the content on the website created to help both people and search engines. Sitemaps are crucial for a usable navigation system.

- Sitemap links should be available at a consistent location throughout the website.
- Sitemap link should be in the secondary menu, which is considered as a mandatory item in the secondary menu.

- Sitemap should list down pages in a clear, hierarchical order, giving a plain overview of the website.
- The sitemap should be updated continuously.

U.2.2 Homepage

Hom	epage							
Guide	eline ID: U.2.2							
Deve	Development Lifecycle Stage:							
\times	Planning 🛛	Design and Development		Deployment	\times	Operation		
Webs	Website Service Category							
\boxtimes	Informative Websi	te 🛛 e-Services Website						

The homepage is the main landing page of the website; it gives the site visitor the first and the most important impression about the website. The website homepage should be well designed and constructed.

- The homepage should clearly reflect the identity of the entity.
- The design and organization of elements on the homepage should be based on the users' needs and expectations.
- Order the homepage sections vertically, according to the most important information. For example: Services should be the first section to appear after the introduction slider "storyboard".
- Each section can be divided horizontally, where the components in the same sections should be related. *For example: News and announcements can be placed in the same section.*
- Avoid unnecessary decorations.

It is preferable to make some changes to the main page content at least once a week.

i

- The foreground and background colors should have a contrast ratio of at least 4.5:1 for normal text and 3:1 for large text.
- Contrast ratio should be of at least 3:1 for graphics and user interface components, such as form input borders.



To check the contrast ratio, visit <u>https://webaim.org/resources/contrastchecker/</u>

• Below are the minimum main components of the homepage, where entities can add additional components based on their business and target visitors.

Section	Components	Importance
Header	Entity Logo: Should be placed in the upper right corner in the Arabic website and	Mandatory
	in the upper left corner in the English website, where the logo should be clear,	
	readable, and not pixelated.	
	Accessibility Bar	Mandatory
	Main Menu	Mandatory
	Secondary Menu	Mandatory
Body	Introduction Slider (Storyboard): The storyboard is used for both decoration and	Optional
	information highlights. For example: new service provided by the entity, Important	
	information, etc.	
	• The storyboard should have interesting graphics and headers.	
	Go to Action Banners. For example: Service, Contact Us, etc	Optional

	Highlights Ticker is used for highlighting news or urgent announcement content on	Optional
	a periodical basis.	
	• Highlight tickers should include announcements or urgent information. <i>For</i>	
	example: Tender announcements, national holiday announcements, job	
	vacancies, new locations, and important news.	
	• The text motion direction should be left to right in the Arabic version and right	
	to left in the English version.	
	• It should have controlled text movement, allowing visitors to move it back and	
	forth.	
	• The text should pause on mouse hover.	
	If no announcements will be published, highlight ticker should be avoided.	
	Services: The entity should clearly highlight its services on the website homepage	Mandatory
	based on the site visitors' needs and expectations.	for entities
	• Services should be categorized based on the site visitor perspective such as	that offer
	investors, citizens, etc.; categorizing based on the organizational point of view	services
	should be avoided.	
	Adding a "Trending Services "Section is preferable.	
	• It is preferable that each service in the section has a dedicated brief.	
	Core Business Information: The entity should highlight its core business information	Optional
	in the website homepage. For example: Financial websites should highlight the	
	currency prices.	
	Entity News: The entity should highlight its news in the news section placed in the	Mandatory
	homepage with the following details:	
	News title.	
	News date.	
	Image if existed.	
	Browse the Site: It is preferable to have browse the site section on the homepage	Optional
	to ease the access to important pages.	
Footer	Website compatibility in terms of cross-browsing and ideal screen resolution, in	Mandatory
	addition to the application required to open the website's file, for example: PDF	
	reader.	

_

	Policies Statements:	Mandatory
	Privacy Policy.	
	• Terms of Use.	
	• Disclaimer.	
	• Copyright.	
	Copyright Statement.	
_	Headquarter Contact information:	Mandatory
	Phone Numbers	
	Working Hours.	
	Location.	
	• Fax.	
	• Directions	
	Government Shared Banners	Mandatory
	Last Website Update Date	Mandatory
	Social Media Buttons	Mandatory

Table 4 - Homepage Components.

U.2.3 Search Functionality

Search Functionality								
Guideline ID: U.2.3								
Development Lifecycle Stage:								
\Box Planning $oxtimes$ Design and Development	□ Deployment □ Operation							
Website Service Category								
🛛 Informative Website 🖾 e-Services Website								

A facility to search the content on the website is mandatory for all government websites.

Providing a non-working search function is considered one of the most crucial flaws. The search feature should follow the guidelines below:

Search Box:

• The website should have an easy to reach search box located at the website header.

- Search box should be located in the homepage and all website pages at a consistent and visible location.
- The search facility can be presented by a search bar or a search icon that displays the search bar after clicking on it.
- Search function should be executed by clicking a button or pressing enter from keyboard, where both options should be available.
- Arabic special characters entered by the user in the search bar should be neglected.
 For example: typing العربى and عربى should bring the same results.
- Search in English should be case insensitive.

Search Results:

- If no result is found, the site visitor should get the following messages: In Arabic " لا "No Results found related to the يوجد نتائج متعلقة بكلمة البحث المدخلة "No Results found related to the entered search word".
- Search results should appear in a new page.
- Page titles of the pages that contain the search result should be visible, in addition to a page brief.
- The total number of search results should be visible.
- The search results page should have a pager where the maximum number of results in each page shouldn't exceed 15 results.

U.2.4 The Use of Icons - Iconography

The Use of Icons (Iconography)									
Guideline ID: U.2.4									
Devel	Development Lifecycle Stage:								
	Planning	\boxtimes	Design a	and Development		Deployment	\boxtimes	Operation	
Website Service Category									
\boxtimes	Informative \	Website	\ge	e-Services Website					

Icons serve as an important visual aid in any graphical communication. Their primary function is to serve as a common visual language. Icons are the perfect way to support written content with visual cues while adding interest to website design. Clever use of iconography directs users to important content. When used correctly, icons can increase conversion rates and improve page stay times.

Support Icons: These icons are meant to support the website content in a graphical way, where the information icons do not replace the text. Support icons are used to:

- o Draw attention to certain services, menus, or features.
- Enhance user experience on text-heavy pages: The use of small icons to represent each paragraph of content gives a clue as to what the content is about, allowing the users to scan the page and isolate information that is most relevant to us. It also makes this section of the page more visually interesting.
- Display large amount of content, and group multiple items into a unique interactive way. *For example: Services categorization*
- Emphasize a Call to Action: Icons and the placement of arrows entice the visitor to click the call to action buttons.



with any text. Clicking an action icon will perform the action the visitor has chosen.



•

- Icons should be used with text-based content. Ideally, they should accurately represent the content, indicating a function, or information to a user.
 - o Information Icons should have visible texts describing the icons' meanings.
 - Action items should have Tooltips on mouse hover, mentioning the icon's function. *For example: When mouse hover is on YouTube icon, a label should appear with the word "YouTube"*.
- Imprecise icons should be avoided, where conflict between the function and icon may confuse the user.



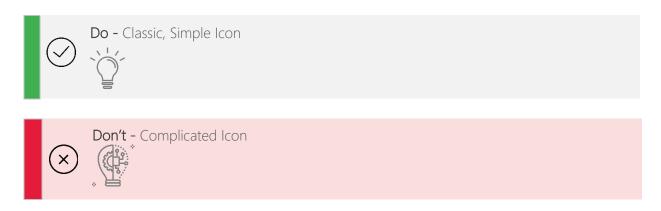
• Icons must follow a consistent style. *For example: Commit round edges or sharp, light border or bold, black and white or colored icons.*

For example: The image below demonstrates 5 sets of uniform icons.



Figure 10 - Icons Sets

- Excessive use of icons should be avoided, they support graphics and should not be used to represent every piece of information on the site. Summarizing information into succinct manner paragraphs, when pairing it with real life photography, is better.
- Unnecessary creativity in selecting icons should be avoided. Icons should be classic.



- Applying icon hover effect when mouse over the icon is preferable. The Icon hover effect should be simple. Effects that contain motions like icon shake or flip should be avoided.
- Suitable Icons Formats:
 - o Scalable Vector Graphics (SVG), Portable Network Graphic (PNG).
 - o Font Awesome is preferable. For more information visit: <u>www.fontawesome.com</u>.

U.2.5 Images for Web

Images for Web								
Guideline ID: U.2.5								
Development Lifecycle Stage:								
Planning		Deployment	\boxtimes	Operation				
Website Service Category								
🛛 Informative Website 🖾 e-Services Website								

Images on the website act as storytellers, allowing site visitors to visualize the content. In addition, it gives the visitor the pleasant experience when browsing the website. Based on the images' objective, website images can be categorized as below:

- Design images: Where images are used for decoration purposes to enhance the design and website layout. *For example: Website background images, pages header images, etc.* Removing the Design Images from the website will not affect the website functionality or reduce the site visitors' understanding of the content.
- **Content Images**: Images are the content or apart from it. *For example: News images, photo gallery, ad banner, etc..., where content images can't be eliminated from the website. Images can consist of photographs, infographics, cartoons, GIFs or other visual elements.*
- Use ALT values, where Alt tag is a text alternative to an image; it is meant to give an image a description when it didn't load well. Moreover, it supports the image to appear in the search engines search results. Alt tag in HTML is like: < img src="..." alt="describe your image">.
- All images used on the website for both design and content should be either copyrighted to the government entity itself or free to use.
- Compress all image files to reduce memory usage and speed the page loading time, where:
 - Images displayed at full width (Images that span the width of the page) should be optimized to 150KB at maximum.
 - o Images in the content should be optimized to 40KB at maximum.
- Low-resolution images should not be uploaded, and images should not be pixelated.
 Stretching or shrinking images should be avoided. All images should be displayed in their original dimensions' ratio.

Note: If non-text content is pure decoration, is used only for visual formatting, or is not presented to users, then it is implemented in a way that it can be ignored by assistive technology.

U.2.6 Web Audio and Videos

Web Audio and Videos

Guideline ID: U.2.6									
Development Lifecycle Stage:									
	Planning	\ge	Design a	and Development		Deployment	\boxtimes	Operation	
Webs	Website Service Category								
\boxtimes	Informative \	Website		e-Services Website					

Both Audio and video are a main component of the websites content, where it can be both promotional and informative

- It is highly recommended to provide captions and associated metadata for audio content
- Provide Pause, Stop functions
- It is highly recommended that captions are provided for all prerecorded media content (Audio / Video), except when the content is a media alternative for text and is clearly labeled as such
- A website must have a description for all prerecorded media content (Audio / Video), except when the content is a media alternative for text and is clearly labeled as such
- Provide a mechanism that allows users to pause or stop audio, or to control its volume independently from the system volume.

U.2.7 Web Forms

Web Forms								
Guideline ID: U.2.7								
Development Lifecycle Stage:								
Planning Design and Development	🗆 Deployment 🛛 Operation							
Website Service Category								
\boxtimes Informative Website \boxtimes e-Services Website								

A web form is a medium that allows the site visitors to get in contact and to submit information or utilize available online services (through desktop or mobile websites), which in

turn should be processed. It is important that online forms available on the website are user-

friendly, easy to use, and simple. Below are guidelines for building forms:

Form Introduction:

- Web forms pages should have a good title and a brief description about the form's purpose.
- It is preferable to mention the approximate time needed to finish filling the form.
- Any pre-request documents or processes to complete the form should be clearly defined to the site visitor before starting.

Form and Fields:

- The form should be kept simple; only the real needed information is asked for.
- The form should be keyboard-friendly, allowing visitors to move through it using the keyboard.
- Stick to logical sequencing for the fields; follow a standard sequence for both fields and value choices. For example: Credit-card number, Expiration date, Security code for fields and a drop-down list of nationality in non-criminal service should start with Jordanian for value choices.
- All fields that are mandatory should be clearly labeled or marked in a way that indicates that these fields are required. (*) symbol is commonly used as a mandatory label.
- Required fields should be minimum.
- Give examples and tips for fields that might not be clear to the site visitor. For example: In credit card data form, give the site visitor a hint where he can find CVV code.
- Default values should be displayed wherever possible. This could be the last item selected by the site visitor or in some cases, the most frequently selected item. *For example: Today's date for some date entry fields*.
- Selectable pre-defined inputs should be provided where possible to minimize manual data entry. *For example: Drop down list and radio buttons*.
- For any required numerical data, the type or unit should be clearly mentioned. *For example: JOD, Meters, etc.*

- If the site visitor is required to enter a phone number, passport number, identity card or credit card information, the format should be given with examples. *For example: Phone number 07XXXXXXXX*.
- Wherever a specific data format is required, the format should be stated within or adjacent to the field with an example. *For example, DD-MM-YY or DD/MM/YYYY*. Having a calendar is optional.
- Fields that require attachments should indicate the following:
 - The maximum acceptable size.
 - The acceptable formats for attachments.

Submission:

- Captcha is a must, where no form can be submitted before it passes captcha.
- Submission and cancelation buttons should be clear.
- A confirmation message must be presented for the user after clicking the confirmation button and perform final submission.

	\oslash	Do Primary action buttons are obvious, while secondary action buttons noticeable but not as prominent.
		Don't
	\otimes	Emphasizing the cancel button with attractive colors. Sign Cancel
_		
	(i	In Arabic forms, submission button is on the right where in English forms, submission button is on the left. Sign Up Cancel الغاء

- Upon submitting the form, the site visitor should get a confirmation message to notify the visitor that the form is successfully submitted, and based on the forms business, the below messages and functions are also applicable:
 - Reference number for follow up purposes if case needed.
 - Email or/and SMS should be sent to site visitors with details.
 - Notification of the duration needed to complete the request should be provided.
 - A facility to print the confirmation screen for future reference and use should be provided.
- It is preferable that the website redirects the visitor to the homepage after the form is submitted to avoid confusion.

U.2.8 Animation

Animation								
Guideline ID: U.2.8								
Development Lifecycle Stage:								
Planning Model Design and Development	🗆 Dep	loyment 🛛	Operation					
Website Service Category								
🛛 Informative Website 🖾 e-Services Website								

Website animation is an added value for both the design and content, below are guidelines for using animations:

- Animation should be flash free; JavaScript and CSS coding should be used to add moving elements to the site without overloading it.
- Animation should be simple; complicated animation that may overload the website and distract the user should be avoided.
- Animating several elements at once should be avoided in order not to distract the user with too much going on.
- Animation should be meaningful; random animation with no purpose should be avoided.

- All animated items should move consistently; items with random direction should be avoided.
- Duration and speed of the animation should be slow enough to give users the possibility to notice the change, but at the same time quick enough not to cause waiting.
- The animation motion should be according to the visitors' reading direction. For example: The news ticker movement in Arabic should be from left to right, and in English from right to left.
- The use of animation should be limited; animation is usually distracting and often irritating to users of the website.

U.2.9 Web Design

Web I	Design								
Guideline ID: U.2.9									
Devel	Development Lifecycle Stage:								
	Planning	\ge	Design a	and Development		Deployment		Operation	
Webs	Website Service Category								
\boxtimes	Informative	Website		e-Services Website					

A website should be well designed and constructed to provide a good impression for the site visitor. It must clearly reflect the identity of the entity and structure for the site visitor.

As a governmental entity, following the Jordan Government Website Design Kit (GWDK) is a must,

whereby the GWDK contains a ready to use template and components.

To download the Jordan Government Website Design Kit (GWDK), visit <u>www.modee.gov.jo</u>

U.2.10 Web Analysis

Web	Analysis								
Guide	Guideline ID: U.2.10								
Devel	Development Lifecycle Stage:								
	Planning	\boxtimes	Design and Development			Deployment	\boxtimes	Operation	

i

WebsiteService CategoryInformativeWebsiteInformativeWebsite

To ensure the best value received to government websites audience, it's important to understand their needs and their interaction behavior to achieve it, this can include having to look at website analytics and heatmap data to identify areas of interest; conducting surveys or community focus groups to solicit feedback directly from citizens

This part aims to improve the analytical capability of the governmental service and presence and act as the go-to-community source for research and analysis within government websites to help improve it,

- The entity website should use data analytics tools to measure the website performance
- The entity website should have data analytics tool to learn more about end users' behavior
- The entity website should have analysis dashboard to help develop website statistics

Note: it's recommended to use google analytics tool as its powerful and effective in providing user data insights and dashboards of statistics.

Component 3: Content and Site Architecture

C.3.1 Sitemap

Sitemap								
Guideline ID: C.3.1								
Development Lifecycle Stage:								
🛛 Planning 🖾 Design and Development		Deployment		Operation				
Website Service Category								
oxtimes Informative Website $oxtimes$ e-Services Website								

A well-organized sitemap is a blueprint for a successful website, but only if it starts with a solid information architecture (IA). It is essential to understand the users' needs to create a website that serves them.

The following are typical questions, which can assist in customizing the site for the respective visitors:

- Who are the target audience(s) of the website?
- Does your website address their needs?
- What do you want the visitors to know, think, or do when they visit the site or after they have left it?

The government website should contain the below pages as minimum, only if applicable:

Page Name- English	Page Name –Arabic
About Us	عن <الجهة>
Welcome Message	الكلمة الترحيبية
Organization Structure	الهيكل التنظيمي
Directorates	المديريات
Ministers	الوزراء
General Secretaries	الأمناء العامون
Service Guide	دليل الخدمات
e-Services	الخدمات الإلكترونية

Forms Guide	دليل النماذج
Entity News	الأخبار
Annual Reports	التقارير السنوية
Contact Us	اتصل بنا
Useful Links	روابط مفيدة
FAQ	أسئلة متكررة
Sitemap	خريطة الموقع

Table 5 - Government Website Minimum Content

Template of sitemap can be found below:

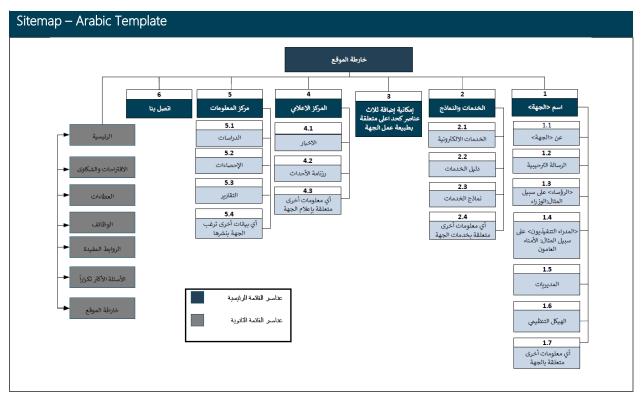


Figure 11 - Sitemap Arabic Version

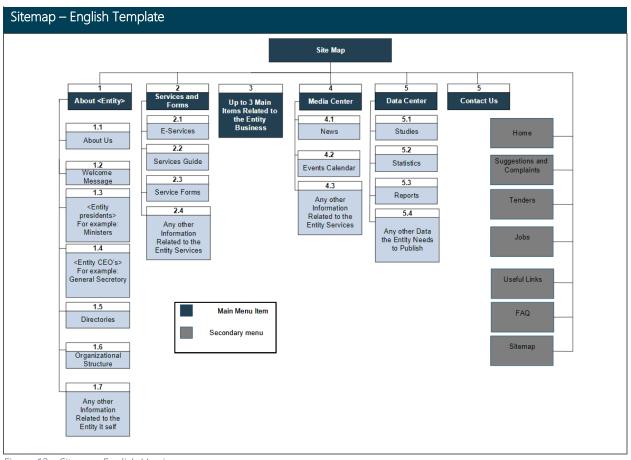


Figure 12 - Sitemap English Version

C.3.2 Site Pages

Site Pages									
Guideline ID: C.3.2									
Development Lifecycle Stage:									
Planning Design and Development	🗆 Deployment 🖾 Operation								
Website Service Category									
oxtimes Informative Website $oxtimes$ e-Services Website									

The way website content is categorized and presented is vital to enhance the user experience. Due to that, every website should have its content categorized for the specific targeted audience, and information should be organized reflecting the business processes from the visitor perspective. There should be clear delineation in web-content between:

- Content for individuals.
- Content for businesses.
- Content for the public sector.

Informative Site Pages

Reading content from a screen is totally different than reading printed documents. The website readers usually scan; they don't read the same way as reading a book. Due to that the content should be written in a simple and precise way, in addition to writing brief sentences, and clear headings with information distributed across the screen.

- 16 % of site visitors read word-by-word.
- Reading from computer screens is 25% slower than reading from paper.
- Web content should have 50% of the word count of its paper equivalent.

Informative page should consist of page title, headings, headlines, and content, as below:

Title	عن الوزارة
Heading	وزارة الاقتصاد الرقمي والريادة

		Headline	نشأة ومسؤوليات الوزارة
		البناء على ما تحقق في قطاع الاتصالات وتكنولوجيا	هي الجهة الراعية للاقتصاد الرقمي وريادة الأعمال في الأردن ب
			المعلومات عبر العقود الماضية. وتعمل الوزارة على تعزيز وتط
			الرقمي ولريادة الأعمال في المملكة، و هذه المحاور هي: البنية الذ
Conte	ent		المالية الرقمية والمنصات الرقمية، وستتضمن برامج عمل ومحاو
		مواصلة العمل على تطوير تشريعات وإجراءات ممكنة لكل	المؤسسات الحكومية الاخرى والقطاع الخاص، كما وتعمل على
			محور من هذه المحاور الخمسة
		Headline	القيم الجوهرية
	ر	ى تغليب الموضوعية والاعتماد على الأسس العلمية لاتخاذ القرا	 المهنية: نُطبَق الممار سات الفضلي في العمل و نحر ص على
	-	والجهد والخبرة في العمل	 المناسب وضمان التطور المهني للموظفين بحسب الكفاءة
Content		بات الوزارة وبما يضمن نكافؤ الفرص الموكلة إلينا بمسؤولية مع تجنب أي تضارب في المصالح	 العدالة: نُطبَق مفاهيم العدالة في إجراءات وعمليات وسياس الذا له ذرنات برمجادير المرية بما الثقافة في نستخدم السلطة
			 المراحد. تشرم بمعايير الصناع والسعادية وتستخدم المستحـ العمل بروح الفريق: نعمل معاً كفريق واحد لتحقيق رؤية
		لحل المشاكل وتطوير الأعمال.	 المبادرة والابتكار: نبحث دائماً عن طرق جديدة ومبتكرة ل
		Headline	محاور تنمية الاقتصاد الرقمي والريادة في المملكة
		خلال العمل على خمسة محاور رئيسية، وهي	تعمد الوزارة إلى تنمية الاقتصاد الرقمي والريادة في المملكة من
Content		لأردن الرقمية والريادية،	 المهارات الرقمية والريادية: التطوير الشمولي لمهارات ال المهارات الرقمية والريادية:
		ه () الأمن للبيانات عالية الحودة،	 2. الخدمات الرقمية: تقديم أفضل الخدمات الرقمية، 3. الأصول الرقمية: بناء وتطوير البنية التحتية وتوفير الوصد
			 لا يسوى مرحيد به وسوير جيه محمد وتعزيز الثقة بال لا ينف البيئة الممكنة: مراجعة القوانين والأنظمة وتعزيز الثقة بال
			 الريادة الرقمية والمجتمعية: تهيئة الظروف الملائمة لنمو و
Figure 13 - Ab	bout l	Js Example	

Page Title: Page title is what describes the web page content for visitors.

- Page titles must properly describe the webpage content, in comprehensive and brief words. *For example: About Us, Contact Us, Organization Structure, etc.*
- Page title should be equal to tab title, knowing that tab title should be formatted "Page Title – Website name ". For example, About Us- Ministry of Digital Economy and Entrepreneurship, عن الوزارة – وزارة الاقتصاد الرقمي والريادة.



Substring Page title.

Heading: The heading should be a meaningful sentence that describes the overall page content.

- Each page should include only one heading.
- The heading should be a short sentence not exceeding 10 words.

Headline: Headline is the meaningful sentence that describes a specific part of the page.

- Headlines should be added to the content to describe the upcoming part of the content.
- In English, headlines should be in title case format, where the first letter of each word is capitalized, except the coordinating conjunctions (and, but, or, nor, for, etc.) and prepositions of four or fewer letters (with, to, at, and so on).

Content: This part describes the main point of the article in detail.

- It is preferable to start with a conclusion even if it is just a short line.
- The content shouldn't be crowded, studies concluded that site visitors enjoy page whiteness.
- Paragraph line spaces should be between 1.5px to 3.0px depending on the website font type.
- Spacing between different paragraphs should be between 3px to 5px depending on the website font type.
- Text alignment should be from "left to right" for English content and from right to left for Arabic content.
- Text Justification should be avoided.



Italic and underlined text should be avoided.

- Information should be presented to a third-party. *For example: Instead of saying "We will manage the process", say "The Ministry of Digital Economy will manage the process".*
- Images and icons can be used to simplify text complexity.
- The content should be free of spelling and grammar mistakes.
- Use consistent style in page content in both formatting and context.
- The date format used in the website should be: dd/mm/yyyy.
- Content should be present, accurate, and up to-date.
- Content of the website should be logically organized and predictable.
- Idioms and Language parts which is different than the (selected language) should be explained within the content.
- Printer-friendly version is a must, which prints content formatted correctly on the hardcopy with page numbers and clear presentation.

Visitors should be able to rate any content throughout the website using the five-star rating system. $\star \star \star \star \star \star$

(i) If the content contains external links, they should be opened in a new tab.

List

A list page is the page that provides meaningful grouping for data and information, where the data might be downloadable files, URLs, and Informative Site pages. *For example: List of news, list of services, list of annual reports.*

Search and Filtration:

• Search functionality should be added if the number of list items exceeds 20 items.

- Search can be by name, date, type ... etc.
- Search in Arabic should neglect special letters.
- Search in English should be case insensitive.
- Search to list items should be by name, date ... etc., depending on the list content.
- If the data structure requires adding categories to list items, it should be added according to the website visitor's point of view. For example: Categorize in terms of visitor's types. Don't categorize in terms of service location.
- If the data structure requires adding sub-categories to list items, the default value should be "View All ".

List Items:

- The list titles should be clear.
- Item title shouldn't exceed 70 characters.
- Items should be clickable if they are linked.
- Titles shouldn't be sub-stringed, show the whole written title.
- It is preferable to have a brief under the list title.
- Links to item details should be clear using the term (view or read more).
- If the item is a downloadable file, document type and size should be mentioned.
- List items should be sorted according to specific order based on its content. *For example: priority, date, alphabetical, etc.*

Services Guide

Services is one of the main interests for the website visitors. The Service Guide objective is to provide a data repository for all services provided by the entity.

Categorization: Service should be categorized from the site visitor point of view. *For example: Categorize in terms of service type. Don't categorize in terms of department that provides the service.*

Search:

- Search functionality should be added if the number of services exceeds 10 items.
- Search by name should be added.
- Search in Arabic should neglect special letters.
- Search in English should be case insensitive.
- Search for list items should be by name, date ... etc., based on the services' business.
- If the data structure for the services requires adding categories, it should be added according to the visitor's point of view.
- If the data structure requires adding sub-categories to the services, the default value should be "View All ".

Service Card: The Service card should contain the below information as minimum:

- Name: The name of the service should be self-explanatory.
- Description: Brief description about the service; by reading this brief, the site visitor should know if this service is the one needed.
- Requirements: The requirements that the site visitor needs to provide in order to get served. *For example: Identity documents, ownership papers, etc.*
- Procedures: List of steps indicating the service process; steps description should be clear and sequenced.
- Needed Forms: If services require submitting forms, this item should provide access in a download PDF file option.
- Expected Completion Time: This item should provide the expected average time to complete the service.
- Fees: Fees of the service should be available covering all cases when different fees might be required depending on certain conditions.
- Centers: Physical locations that provide the service.

• E-service Option: If the service is available online, the page should display a "get it online" option.

Branches Guide

For governmental entities that have branches, each entity should provide the site visitors with helpful information on each branch, such as location and contact details. Such information about the branches should be available on the website to accommodate the customer's needs and expectations.

Categorization and Search:

- Enable search by branch name if applicable.
- Add categorization based on location.

Results:

- The search results should display each branch name, city, and service region.
- Clicking on a certain item should lead the visitor to the branch card page that provides:
 - o Name.
 - o Location: Location description with map URL.
 - o Services Provided.
 - o Contact Information.
 - o Working Hours.
 - o Branch Service Region.

C.3.3 Downloadable Files

Downloadable Files								
Guideline ID: C.3.3								
Development Lifecycle Stage:								
□ Planning □ Design and Development □ Deployment ⊠ Operation						Operation		
Webs	Website Service Category							

🛛 Informative Website 🖾 e-Services Website

Governmental entities' websites should offer download links for files in order to provide complete information to the visitors and satisfy their needs.

- The file name should be understandable and clear.
- The file formation must be mentioned. *For example: PFD, Word, Excel.*
- File size should be mentioned, where files should be optimized to be minimum.
- Downloadable file URL should have its words separated with underscores instead of spaces.
- The phrase "download" "تحميل" "should be clear and placed properly.
- It is preferable to avoid having files which require purchasing licensed software. *For example: MS Word, MS Excel, MS PowerPoint.*
- Files Reader Applications should be available on the website's footer.

C.3.4 Contact Information

Contact Information									
Guide	Guideline ID: C.3.4								
Devel	Development Lifecycle Stage:								
\times	Planning		Design a	and Development		Deployment	\boxtimes	Operation	
Webs	Website Service Category								
\boxtimes	☐ Informative Website ☐ e-Services Website								

A website should provide full contact details for the government entity, in case the customer wants to get in contact with the entity. Several types of contact information should be available on the website to accommodate the customer's needs and expectations.

Headquarter Contact Information:

- Phone Numbers; make sure to follow 00962-X-XXXXXXX.
- Fax Numbers; make sure to follow 00962-X-XXXXXXX.

- P.O. Box Address.
- Contact Email.
- Location Description.

Location Map

• Location should be well pinned on Google Maps.

 \times Use Google Maps. Don't use images for the location.

Contact Us form

- The contact us form should include the blow filed as minimum:
 - Type (optional), it should be dropdown list contains all possibility based on the entity business. *For example, Suggestion, complaint, information request, etc.*
 - o Subject.
 - o Name.
 - o Phone number.
 - o Email.
 - o Details.
- A confirmation message should be viewed when a form is submitted.

National Call Center Numbers: National call center numbers must be mentioned in the contact us page.

Branches Directory: The branches directory page should be linked to the contact us page.

Working Hours: Working hours must be mentioned in the contact us page.

Social Media Channel: Social media channels must be listed in the contact us page.

C.3.5 Cross Government Information

Cross Government Information

Guideline ID: C.3.5							
Development Lifecycle Stage:							
Planning Design and Development		Deployment	\ge	Operation			
Website Service Category							
🛛 Informative Website 🖾 e-Services Website							

The cross-government information is content that all government entities should have in their website. Once this document is released, all government entities should have the below information on their websites.

Information	Description
Amman Message Website	Place the Amman Message Logo at the website footer.
	Redirect the users to <u>www.ammanmessage.com</u>
Human Rights National Plan	Have the plan as a PDF document accessible from the website footer.
The Right to Obtain	The form must be placed on the website.
Information Form	
مدونة السلوك الوظيفي	Have the PDF document accessible from the website footer.
حكومتي بخدمتي	Place the Logo on the website footer.
بوابة الحكومة الالكترونية	Redirect the users to <u>https://jordan.gov.jo</u>
بخدمتكم	Place the Logo on the website footer.
	Redirect the users to <u>https://jordan.gov.jo/wps/portal/Home/CMU?lang=ar</u>

Table 6- Cross Government Information

C.3.6 FAQ

FAQ								
Guideline ID: C.3.6								
Development Lifecycle Stage:								
\boxtimes	Planning \square Design and Development \square Deployment \square Operation							
Website	Website Service Category							
\square	Informative W	ebsite	, X	e-Services Website				

FAQ is an abbreviation for "Frequently Asked Questions". It refers to a website page that provides answers to a list of typical questions that users might ask regarding a particular subject.

- FAQ links should be available at the secondary menu in a consistent location.
- The question should be clear. It is preferable to use short questions.
- Website can provide FAQ listed in categories. *For example: Digital transformation questions, entrepreneurship.*
- A facility to ask a new question should be available in case the user's request is not fulfilled.

C.3.7 Website Policies

Webs	Website Policies									
Guideline ID: C.3.7										
Development Lifecycle Stage:										
	Planning	Planning 🗆 Design and Development 🗆 Deployment 🖾 Operation								
Website Service Category										
⊠ Informative Website ⊠ e-Services Website										

Government entities should place their Policies Information on the website in the footer section throughout all website pages.

Privacy Policy

- The Privacy Policy should be linked in the website footer.
- Below is a Privacy Policy template in both Arabic and English.

Privacy Policy – Arabic Template

<u>سياسة الخصوصية</u>

لا تقوم "اسم الجهة" والموقع الإلكتروني الخاص بها بجمع معلومات شخصية عن زوار الموقع الإلكتروني إلا إذا اختار زائر الموقع مشاركة هذه المعلومات.

المعلومات الشخصية: معلومات تتعلق بشخص طبيعي ومن شأنها التعريف به بطريقة مباشرة أو غير مباشرة مهما كان مصدرها أو شكلها، بما في ذلك البيانات المتعلقة بشخصه أو وضعه العائلي أو أماكن تواجده.

البيانات الشخصية الحساسة: أي بيانات أو معلومات تتعلق بشخص طبيعي تدل بصورة مباشرة أو غير مباشرة على أصله أو عرقه أو تدل على آرائه أو انتماءاته السياسية أو معتقداته الدينية أو أي بيانات تتعلق بوضعه المالي أو بحالته الصحية أو الجسدية أو العقلية أو الجينية، أو بصمته الحيوية (البيو مترية) أو بسجل السوابق الجنائية الخاص به، أو أي معلومات أو أي بيانات يقرر المجلس اعتبارها حساسة. إذا كان إفشائها أو سوء استخدامها يلحق ضررا بالشخص المعني بها.

نود ان نؤكد ان هذه السياسة لن تتطرق الى مخالفة ما يتعلق بمعالجة البيانات الشخصية بهدف الاتساق مع التوجه العام للحكومة في ادارة البيانات الشخصية.

إن معلومات التصفح على سبيل المثال ولا الحصر مثل أوقات الزيارة وزيارة الصفحات وبلد الزيارة لا تعتبر معلومات شخصية ويحق لـ "اسم الجهة" استخدام هذه المعلومات لغايات تقييم استخدام الموقع وتحسينها. وباستخدام هذا الموقع الإلكتروني، فإنك توافق على شروط سياسة الخصوصية هذه. يتم التعامل مع جميع البيانات المزودة للموقع بخصوصية تامة، ولا يتم مشاركتها إلا للأفراد والجهات المصرح لهم فقط لغايات تقديم الخدمات وإجراء الإحصائيات والدراسات والمسوحات، ولن يتم مشاطرة و/أو بيع و/أو نقل هذه المعلومات إلى أي طرف ثالث بدون موافقة زوار الموقع المسبقة. يحتوي هذا الموقع على روابط لمواقع خارجية، وعليه فإن "اسم الجهة" تخلي مسؤوليتها عن ممارسات خصوصية خارجة عن موقعها الإلكتروني.

تحتفظ "اسم الجهة" بحق إجراء أي تغيير على سياسة الخصوصية دون تقديم أي اشعار مسبق، وباستمرار استخدام الزائر للموقع الإلكتروني، فإنه زائر قد قبل ووافق على هذه التغييرات وما يترتب عليها. تكون قوانين المملكة الأردنية الهاشمية وحدها هي القوانين واجبة التطبيق في كل ما يتعلق بالنزاعات التي تنشأ من جراء استخدام هذا الموقع الإلكتروني، كما تختص محاكم المملكة الأردنية الهاشمية حصرياً بالنظر في تلك النزاعات والبت فيها.

تاريخ آخر تحديث على السياسة: - / - / 2022

Privacy Policy – English Template

Privacy Policy

"Entity Name" and its website doesn't collect personal information about the visitors of the website unless the visitor selects to share this information.

Personal information: All information related to a person that would identify him directly or indirectly, regardless of its source or form, including data related to his person, family status, or place.

Sensitive personal data: any data or information related to a person that directly or indirectly indicates his origin or race or indicates his opinions, political affiliations, religious beliefs, or any data related to his financial status, health, physical, mental or genetic condition, or his biometric fingerprint or his criminal record, or any information or any data that the Board decides to consider sensitive. If its disclosure or misuse causes harm to the person concerned.

We would like to confirm that this policy will not address any violation related to the processing of personal data with the aim of consistency with the government's general approach in managing personal data.

Browser information, including but not limited to visit duration, page visits, and country of visit are not considered personal information. "Entity Name" may use this information for the purpose of evaluating and improving the use of the website. By using this website, you agree to the terms of this Privacy Policy.

All data provided to the website shall be strictly confidential and shall only be shared by authorized individuals and entities for the purpose of providing services, and conducting

statistics, studies, and surveys. This information shall not be shared, sold and/or transmitted to any third party without the prior consent of the visitors of the website.

This website contains links to external websites and therefore "Entity Name" disclaims responsibility for privacy practices outside its website.

"Entity Name" reserves the right to make any changes to the Privacy Policy without giving any prior notice. As the visitor continues to use the website, he/she has accepted and agreed to these changes and their consequences.

Only the laws of the Hashemite Kingdom of Jordan shall be applicable in all matters relating to disputes arising from the use of this website. The courts of the Hashemite Kingdom of Jordan shall have exclusive jurisdiction to investigate and decide on such disputes.

Copyrights

- Copyrights should be linked in the website footer.
- Below is a Copyrights template in both Arabic and English.

Copyrights – Arabic Template

<u>حقوق النسخ والنشر</u>

تعتبر جميع محتويات الموقع الإلكتروني على سبيل المثال لا الحصر (النصوص والرسومات والصور والملفات والروابط وملفات الصوت ملكا لـ (اسم الجهة) ومحمية بموجب قانون حماية حق المؤلف في الأردن رقم 22 لعام 1992 وتعديلاته وبموجب الاتفاقيات الدولية.

يسمح (اسم الجهة) للغير القيام بما يلي: -

- 1. تنزيل و/أو الاطلاع و/أو الطباعة لأي معلومات منشورة للاستخدام الشخصي أو للاستخدام داخل المؤسسة ولأغراض غير تجارية.
 - 2. وضع روابط على موقعهم تؤشر على أماكن وجود المعلومات على الموقع.
- 3. إعادة نشر أجزاء بسيطة من المعلومات شرط أن يتم النشر دون التعديل وبالشكل الأصلي له مع ضرورة الإشارة بشكل واضح إلى مصدر هذه المعلومات "اسم الجهة".

في حالة وجود حاجة للاستخدام لغير الغايات الموضحة أعلاه، يرجى مخاطبة "الجهة" من خلال العنوان

الوارد أدناه، مع مراعاة ضرورة تحديد المعلومات المطلوبة وتوضيح الهدف من الاستخدام.

"عنوان الجهة"

تاريخ آخر تحديث على السياسة: - / - / 2022

Copyrights – English template

Copyrights

All contents of the website, including but not limited to texts, graphics, images, files, links, and audio files are the property of (Entity Name) and are protected by the Copyright Protection Law of Jordan No. 22 of 1992 and its Amendments, and by international agreements.

(Entity name) allows third parties to:

1. Download, access, and/or print any information published for personal or in-house use and for non-commercial purposes.

2. Place links on their website indicating the location of the information on the website.

3. Republish minor parts of the information, provided that the publication is done without modification and in the original form, with the need to clearly indicate the source of this information "Entity Name".

If there is a need for use other than the above objectives, please address the "Entity" through the address below, considering the need to specify the required information and clarify the purpose of use.

"Entity Address

Copyrights Statement

- Copyrights Statement should be mentioned in the website footer.
- Below is the Copyrights Statement template in both Arabic and English.

Copyrights Statement – Arabic template

جميع الحقوق محفوظة © < السنة الحالية>. <اسم الجهة>

Copyrights Statement – English template

All Rights Reserved \mathbb{O} < Current Year >. <Entity Name>.

Terms of Use

- Terms of Use should be linked in the website footer.
- Below is a Terms of Use template in both Arabic and English.

Terms of Use – Arabic template

<u>شروط الاستخدام</u>

تنطبق قواعد استخدام الموقع الإلكتروني على جميع الزوار. ويحق لـ "الجهة" إيقاف و/أو منع و/أو إنهاء استخدام الموقع عن أحد المستخدمين في حال حدوث انتهاك من قبله لتلك القواعد، أو في حال توفرت أسباب تدعو للاعتقاد بأن أحد المستخدمين قد انتهك وخالف شروط وقواعد الاستخدام.

ويُحظر على زوار الموقع انتهاك أو محاولة انتهاك الإجراءات والقواعد المعمول بها لحماية الموقع، ويشمل ذلك على سبيل المثال لا الحصر الأعمال التالية:

- الوصول إلى البيانات التي لا يقصد تقديمها لهذا المستخدم، أو الدخول على خادم أو حساب لا يصرح للمستخدم بالدخول إليه.
- محاولة إجراء اختبار أو مسح أو فحص لإمكانية إصابة نقاط الضعف في نظام، أو شبكة البوابة، أو انتهاك سلامة الإجراءات أو توثيقها دون تصريح رسمي منها.
- محاولة التدخل في الخدمة المقدمة لأي مستخدم، أو مستضيف، أو شبكة، بما في ذلك على سبيل المثال وليس الحصر، عن طريق وضع فيروس على الموقع، أو زيادة الحمل عليه، أو إرسال رسائل دعائية إليه، أو إغراقه بالرسائل الإلكترونية، أو محاولة تعطيله.

إن مخالفة قواعد الاستخدام وانتهاك النظام أو الشبكة، يعرض المخالف للمسؤولية المدنية والجنائية. وسيتم مباشرة التحقيق في الحالات التي قد تنطوي على مثل هذه المخالفات والانتهاكات وملاحقة المتسبب فيها قضائياً. إن " الجهة " غير مسؤولة عن أي تأخير أو تردي في جودة الخدمة أو سوء أداء أو انقطاع في الخدمة لأي سبب كان، ويسقط المستخدم أي مطالبة له ضد "الجهة" بهذا الخصوص.

تاريخ آخر تحديث على السياسة: - / - / 2022

Terms of Use – English Template

Terms of Use

The Terms of Use of the website shall apply to all visitors. The "Entity" reserves the right to suspend, prevent, and/or terminate the use of the website by any user in the case of any violation of these terms, or in case there are good reasons to believe that a user has violated the Terms and Conditions.

Visitors to the website shall not violate or attempt to violate the applicable procedures and regulations for protecting the website, which includes, but are not limited to:

• Accessing data not intended for the user or logging into a server or an account which the user is not authorized to access.

- Attempting to test, scan or probe the vulnerability of the system or network or to breach security or authentication measures without proper authorization.
- Attempting to interfere with the services provided to any user, host or network, including but not limited to submitting a virus to the website, overloading, "flooding", "mail-bombing" or "crashing" the website.

Violation of these Terms of Use and breaching the system or network may result in civil or criminal liability. Occurrences of such violations and breaches shall be investigated, and users who are involved in such violations may be legally prosecuted.

The "Entity" shall not be responsible for any delay, poor quality of service, or poor performance or interruption of the service for any reason, and the user shall drop any claim against the "Entity" in this regard.

Disclaimer

- Disclaimer should be linked in the website footer.
- Below is a Disclaimer template in both Arabic and English.

Disclaimer – Arabic template

إخلاء المسؤولية

على الرغم من قيام " الجهة" ببذل الجهد اللازم لمراعاة دقة المعلومات المنشورة وسرعة تحديثها على الموقع الإلكتروني، إلا انه لا يضمن ولا يتحمل أي مساءلة قانونية تعتمد على دقة و/أو شمولية و/أو شكل المعلومات المنشورة ولا يتحمل أي تبعات لأي خسائر ناتجة عن الاعتماد على هذه المعلومات. بالرغم من أن " الجهة" ليبذل الجهد اللازم لاستمرار عمل موقعه على شبكة الانترنت ، إلا أنه قد يحصل في بعض الأحيان انقطاع و/أو بطئ لخدمات الموقع لأسباب خارجة عن إرادة " الجهة"، وفي هذه الحالة فان " الجهة" لا يتحمل أي مساءلة قانونيه و/أو خسائر ناتجة عن ذلك.

إن الروابط الموجودة على الموقع والتي تنقل المستخدم إلى مواقع أخرى غير مشمولة بهذه السياسة ولا يتحمل " الجهة" أي مسؤولية قانونية ناتجة عن الانتقال إلى هذه المواقع.

تاريخ آخر تحديث على السياسة: - / - / 2022

Disclaimer – English Template

Disclaimer

Although the entity makes the necessary efforts to consider the accuracy of the published information and the speed of updating it on the website, it shall not guarantee, shall not assume any legal liability based on the accuracy, comprehensiveness, and/or form of the published information, and shall not bear any consequences for any losses resulting from the dependency on this information.

Although the "Entity" makes the necessary effort to maintain the operation of its website, there may be occasional interruptions and/or slowness of the services of the website for reasons beyond the control of the "Entity", in this case, the "Entity" shall not assume any legal liabilities and/or consequential losses.

Links on the website that redirect users to other sites are not included in this Policy, and the "Entity" shall not assume any legal liability resulting from the redirection to these websites.

This policy was Last updated: -/-/ 2022

Accessibility

This policy is aimed at ensuring that people with disabilities have equal access to the technologies that can enrich their lives.

Accessibility- Arabic template

Limited Distribution

سياسة سهولة التصفح

تم تطوير هذه السياسة بهدف ضمان حصول الأشخاص ذوي الإعاقة على فرص متساوية للوصول إلى التقنيات التي يمكن أن تثري حياتهم، وتغطي مجموعة من محددات الوصول الالكتروني، بما في ذلك المحتوى الرقمي، ووظائف المواقع الإلكترونية، والوسائط، والخدمات، بالإضافة الى محددات الوصول باستخدام التقنيات المساعدة.

تسعى سياسة تسهيل التصفح الى راحة الجمهور المقصود؛ من خلال تلبية حاجات المستخدمين ذوي الإعاقة فيما يتعلق باستخدام الوظائف الرقمية، حيث يطبق هذا الموقع عددًا من معايير وتقنيات الوصول بناءً على معايير المواقع الحكومية الأردنية والتي تغطية المعايير العالمية WCAG 2.1. وتمت إضافة عدد من الميزات إلى هذا الموقع لتقديم المساعدة اللازمة لتلك الفئات، من بين تلك الميزات:

خريطة الموقع

يتبع الموقع الالكتروني معايير المواقع الحكومية الأردنية في تتبع هيكل المحتوى من خلال خريطة الموقع التي تسهل التنقل بين صفحات المحتوى مما يجعل التصفح والوصول إلى المعلومات والخدمات أكثر سهولة. **خاصبة التكبير**

يدعم الموقع الالكتروني خيارات المتصفح "Zoom" لتكبير حجم الخط لمساعدة المستخدمين الذين يواجهون صعوبات في قراءة النص أو عرض الصور. ويمكن تشغيل الخاصية أيضا بالضغط على مفتاحي Ctrl و + للتكبير أو Ctrl و – للتصغير والضغط على مفتاحي Ctrl والرقم 0 لإعادة اعدادات حجم الشاشة الافتراضي.

تصميم مستجيب

تم تصميم الموقع الالكتروني بحيث يستجيب لأحجام الشاشات المختلفة مثل الهواتف المحمولة والأجهزة اللوحية وأجهزة الحاسوب المكتبية، حيث يمكن عرضه بشكل أفضل للشاشات ذات الحجم 1366 × 768

تغيير حجم النص

يوفر الموقع الالكتروني للمستخدمين الذين يواجهون صعوبة في قراءة النصوص ميزة لتكبير أو تصغير حجم الخط من خلال النقر على أيقونة A + أو A- المدرجة في أعلى الصفحة الرئيسية.

التحكم في الألوان

يوفر الموقع الالكتروني للمستخدمين الذين يواجهون صعوبات في قراءة النص على خلفية لونية معينة، عددًا من أنظمة الألوان التي تتحكم في ألوان المكونات وتسهل بشكل كبير القراءة وتقليل إجهاد العين خاصة للمستخدمين المكفوفين وضعاف البصر.

دعم لوحة المفاتيح

يمكن تصفح الموقع الالكتروني باستخدام لوحة المفاتيح بالضغط على مفاتيح Tab او Shift او Enter. **خاصية التمرير لأعلى**

يحتوي الموقع الالكتروني على زر التمرير لأعلى للانتقال إلى أعلى الصفحة بنقرة زر واحدة.

محتوى غير نصي

يجب تزويد الصور والمحتوى غير النصي بنص بديل باللغة العربية او اللغة المقصودة.

الصوت فقط والفيديو فقط (مسجل مسبقاً)

ينبغي توفير معلومات بديلة مكافئة للمحتوى السمعي البصري, تبعاً للإعاقة.

التسميات التوضيحية (المسجلة مسبقاً)

في التسجيل الصوتي او الفيديو المسجلين مسبقاً، ويتم تقديم التسميات التوضيحية باللغة المفضلة (اللغة العربية هي اللغة الافتراضية)

الاتجاه

يجب ان يكون المستخدم قادراً على تحديد اتجاه عمودي او افقي للعرض. استخدام اللون ينبغي استخدام اللون للزينة ونقل المعلومات. التحكم بالصوت يجب ان يستطيع المستخدم إذا كان مستمراً لأكثر من ثلاث ثوان (إيقاف، وقفة، وتحكم في مستوى الصوت). التباين (الحد الأدني) توفير الحد الأدني (4.5:1) من التباين لعناص النص القابلة للعرض (نص وصور النص). تغيير حجم النص يجب توفير تكبير حجم النص ليصل الى 200 في المائة عند الاقتضاء، دون فقدان أي معلومات. تباين غير نصي لمكونات واجهة المستخدم والرسومات. وقفة، توقف، اخفاء يجب ان يكون المستخدم قادراً على وقف المحتوى المتحرك او الوامض او محتوى التمرير او إيقافه مؤقتاً أو إخفائه. ثلاث ومضات أو اقل يجب تجنب استخدام أكثر من ثلاث ومضات في ثانية الواحدة لأي محتوى. فخ لوحة المفاتيح يجب عدم قفل لوحة المفاتيح على أي جزء من الصفحة (التنقل داخل الصفحة، والتنقل للخارج). تعديل التوقيت يمكن للمستخدمين ضبط الحدود الزمنية او يتم تنبيههم للقيام بذلك باستخدام الكلام او النص او الصوت. منع الأخطاء يجب أن يكون المستخدم قادراً على التراجع عن أي إجراءات خاطئة او الغائها وضمان القدرة على تصحيح الأخطاء. تاريخ آخر تحديث على السياسة: - / - / 2022

Accessibility – English Template

Accessibility Policy

The policy is aimed at ensuring that people with disabilities have equal access to the technologies that can enrich their lives, and covers a range of e-Accessibility issues, including digital content, website functions, media, services, access to assistive technologies and digital components.

Accessibility is for the intended audience's convenience; it allows making a sense of users with disability related to the use of digital functions, where this website applies number of accessibility standards and techniques based on the Jordan Government Website Standards which is meant to cover WCAG 2.1. Number of features were added to this website to provide the needed assistance to those categories, among those features:

Site map

The website follows the Jordan Government Website Standards to maintain the structure of web content and navigation as easy as possible. This makes browsing and information and services accessing more user-friendly.

Zoom Function

This website supports the browser 'Zoom' options to zoom in and enlarge the font size to help users with difficulties in reading a text or viewing images. Alternatively, you can press the Ctrl and + keys to zoom in or Ctrl and - keys to zoom out. Pressing the Ctrl and the number 0 keys resets the default screen size.

Responsive View

This website design is optimized / responsive for different screen sizes such as mobile phones, tablets, desktops, and TVs where it can be best viewed for screens with size 768×1366 .

Change Text Size

This website provides users that have trouble reading text, with feature to enlarge or reduce font size by clicking on the A+ or A- icons at the top of the webpage.

Change Color Function

For users who have difficulties in reading text against a certain color background, the website offers number of color schemes that controls components colors and make it significantly easier to read and reduce eye strain for color blind and visually impaired users.

Keyboard support

The website can be browsed using a keyboard by pressing the Tab, Shift and Enter keys.

Scroll up button

The website has a scroll up button to go to the top of the page at the click of a button.

Non-text content

Images and non-textual content must be provided with alternative text in Arabic or the intended language.

Audio only, video only (pre-recorded)

Alternative information should be provided equivalent to the audiovisual content, depending on the disability.

Captions (pre-recorded)

In pre-recorded audio or video, captions are provided in the preferred language (Arabic is the default

language)

Direction

The user must be able to select a portrait or landscape orientation.

Color use

Color should be used for decoration and conveying information.

Voice control

The user must be able if it continues for more than three seconds (stop, pause, volume control).
contrast (minimum)
Provides minimum (4.5:1) contrast for viewable text elements (text and text images).
Change the text size
Enlargement of text to 200 percent should be provided where appropriate, without losing any information.
Non-text contrast
For user interface and graphics components.
pause, stop, hide
The user must be able to stop, pause or hide the moving, flashing or scrolling content.
Three flashes or less
You should avoid using more than three flashes per second for any content.
keyboard trap
The keyboard should not be locked to any part of the page (navigation into the page, navigation out).
Timing adjustment
Users can set time limits or be prompted to do so using speech, text, or voice.
Error prevention
The user must be able to undo or cancel any wrong actions and ensure the ability to correct errors.
This policy was Last updated: -/-/ 2022

Cookies Policy

Cookies are small files that a website sends to users' devices to track their online behavior; thus,

cookies assist in processing users' personal data. Cookies are used by web developers to help users navigate their websites efficiently and perform certain functions.

Cookies Policy– Arabic template

<u>سياسة ملفات الارتباط (Cookies)</u>

تلتزم "الجهة" بالشفافية الكاملة وتزويد المستخدمين بالمعلومات الضرورية حول استخدام ملفات تعريف الارتباط عند زيارة موقعها الالكتروني.

ما هي ملفات تعريف الارتباط (Cookies)

ملفات نصية يتم تحميلها على الجهاز الخاص بالمستخدم عند زيارة الموقع الالكتروني حيث يتم تخزين معلومات معينة حول المستخدم وطبيعة استخدامه للموقع الالكتروني. تفيد هذه الملفات في السماح للموقع الالكتروني بالتعرف على جهاز المستخدم بحيث يتم إعادة هذه الملفات إلى الموقع الالكتروني في كل زيارة لاحقة له أو إلى أي موقع الكتروني آخر يمكن له التعرف عليها.

أنواع وأسباب جمع المعلومات

من أجل جعل رحلة تصفح زوار الموقع ممتعة وعملية قدر الإمكان، سيقوم الموقع الالكتروني بحفظ قدرًا معينًا من البيانات على أجهزة الزوار لتحسين تجربة تصفح الموقع الالكتروني واستخدامه. أدناه أمثلة لأنواع المعلومات التي يمكن للموقع الالكتروني جمعها من خلال ملفات تعريف الارتباط:

- معلومات إحصائية من خلال ملفات تعريف ارتباط Google Analytics مثل عدد المستخدمين الذين يزورون الموقع الالكتروني، وتكرار عرضه، والصفحات التي تمت مشاهدتها، والنقرات التي تمت على الموقع الالكتروني والمدة الإجمالية للتنقل بداخله.
 - معلومات الأداء، حيث يستخدم الموقع الالكتروني ملفات تعريف ارتباط خاصة لفحص أداء الموقع الالكتروني على أجهزة الزوار، مثل أداء تحميل الصفحات والوسائط المتعددة وغيرها.
 - بيانات الزوار الشخصية التي تم تقديمها طوعا من قبل الزوار أثناء التفاعل مع مكونات الموقع الالكتروني.

مدة التخزين

قد تختلف مدة تخزين ملفات تعريف الارتباط على جهاز الزائر، اعتمادًا على الفئة التي ينتمي إليها ملف تعريف الارتباط لضمان عمل الموقع الالكتروني بشكل صحيح

رسالة ملفات تعريف الارتباط (Cookies)

من خلال زيارة هذا الموقع الالكتروني واستخدامه، ستظهر لزائر الموقع الالكتروني رسالة بالموافقة على استخدام ملفات تعريف الارتباط (Cookies)، مع توفير الخيار لحظرها أيضاً، مع استمرار القدرة على تصفح الموقع الالكتروني مع الأخذ في الاعتبار من عدم توفر بعض الخيارات تبعا لحظرها.

تنبيه

يجب أن يدرك الزائر أن سياسات ملفات تعريف الارتباط (Cookies) الخاصة بهذا الموقع الالكتروني قد تخضع للتغييرات والتحديثات في أي وقت دون تقديم إشعار مسبق، ويجب على الزائر إعادة زيارة قسم سياسة ملفات تعريف الارتباط (Cookies) هذا بانتظام للبقاء على اطلاع بشأن أي مستجدات.

تاريخ آخر تحديث على السياسة: - / - / 2022

Cookies Policy – English Template

Cookies Policy

"Entity Name" is committed to being fully transparent and provide users with the necessary information about the use of cookies when visiting its website.

What are Cookies

Cookies are text files that are downloaded to the visitor's computer or mobile device when you visit a website and store certain information about Site usage. They are useful because they allow websites to recognize a user's device. They are then returned to the original website on each subsequent visit or to any other website that recognizes them.

Types of information collected and reasons for collection

In order to make site visitors journey within the website as pleasant, as functional, and as practical as possible, this website saves a certain amount of data to visitors' device to optimize and improve visitors' experience when browsing and using it. Where below are examples of information types that may be collected through cookies:

- Analytical Cookies, namely Google Analytics cookies, such as the number of users visiting the site, the frequency with which the website was viewed, the pages viewed, the clicks made on the website and the total duration of navigation on it,
- Cookies of website preferences in visitors' devices such as website loading performance, sizing preferences, language, and more
- Cookies of visitors' personal data that was voluntarily provided during visitor's interaction with the website components.

Cookies Storing Duration

The duration of cookies storage on site visitors' device may vary, depending on the category to which a cookie file belongs to ensure that the site works properly

Cookies Message

By visiting and using this website, a message to agree on the use of cookies will appear to the site visitor, with the option to also have it blocked, while still being able to browse the website, but some of the options will no longer be available.

Cookies Notice

The site visitors should be aware that this website cookies policies are subject to changes and updates at any time without providing prior notification and should revisit this Cookies Policy section regularly to stay informed about the use of cookies.

This policy was Last updated: -/-/ 2022

C.3.8 Content Management System

Content Management System						
Guideline ID: C.3.8						
Development Lifecycle Stage:						
oxtimes Planning $oxtimes$ Design and Development	\boxtimes	Deployment	\boxtimes	Operation		
Website Service Category						
🛛 Informative Website 🖾 e-Services Web	osite					

Each government entity should support its website with a Content Management System (CMS) for management and administration.

- The CMS should be user-friendly, enabling non-technical users to carry out administrative tasks.
- Ability to create unlimited number of users and groups.
- The CMS must support creating user roles and privileges, in terms of what pages can

be controlled and what actions can be done on a page.

- The CMS must support creating workflows.
- The CMS must support content versions.
- Ability to schedule content.
- Administration transactions must be logged.
- The CMS should carry out an SEO Module.
- The CMS should support multi-language websites.
- The CMS should provide out of the box modules such as news, calendar, etc...
- The CMS should comply with the Website Security Guidelines mentioned in section 7, wherever the guidelines comply.

Component 4: Responsive Web Design

Due to smart devices' quick evolution with varying screen sizes and resolutions, all government websites should be designed in a responsive manner. Responsive Web Design is about using HTML and CSS to automatically resize, hide, shrink, or enlarge a website to make it look good on all devices (desktops, tablets, and phones).



Figure 14 - Responsive Web Design

Responsive sites use fluid grids. All page elements are sized by proportion, rather than pixels. *For example, if there is a three columns page, it is not exactly how wide each should be, but rather how wide each should be in relation to the other columns. Column 1 should take up half the page, column 2 should take up 30%, and column 3 should take up 20%.*



Responsive Web Design can be archived through Bootstrap, W3.CSS, Material Design, PureCSS, Materialize, etc.

R.4.1 Design for Mobile

Design for Mobile	
Guideline ID: R.4.1	
Development Lifecycle Stage:	
oxtimes Planning $oxtimes$ Design and Development $oxtimes$ Deployment $oxtimes$ Operation	
Website Service Category	
🖾 Informative Website 🖾 e-Services Website	

Website Pages: When using Responsive Web Design, the design should be for the content,

where the page should show components based on priorities.

Wide Viewport	Narrow Viewport
Headline Name • Text Age • Text Tel. • Text Tel.	Headline • Text • Text • Text
Question Answer Answer Answer 	Name Age Tel.
Headline	Question • Answer • Answer • Answer
Why	
	Headline
	Why

Figure 15 - Standards and Responsive Website Pages

Logo:

• Logo should be designed with responsive frameworks and variable sizes; it should be able to resize itself to fit whatever available space has been provided for it without stretching.



- It is preferable to have the logo centered in the middle of the mobile design header.
- Text that is part of a logo or brand name are considered essential and should be treated as part of the logo.

Menu:

- The switch language button should be placed at the header of the mobile design. It shouldn't be placed on the menu.
- In mobile design, the menus should be changed in style to a hamburger menu. As below:

Menu Name	Mobile Menu			
Main Menu				
Secondary Menu	:			

Table 7- Mobile Menus

- Secondary Menu can be removed, where all its items are moved to the Main Hamburger Menu.
- In Arabic and English, the main menu should be placed on the right-side of the mobile design header and the secondary menu should be placed on the left-side.

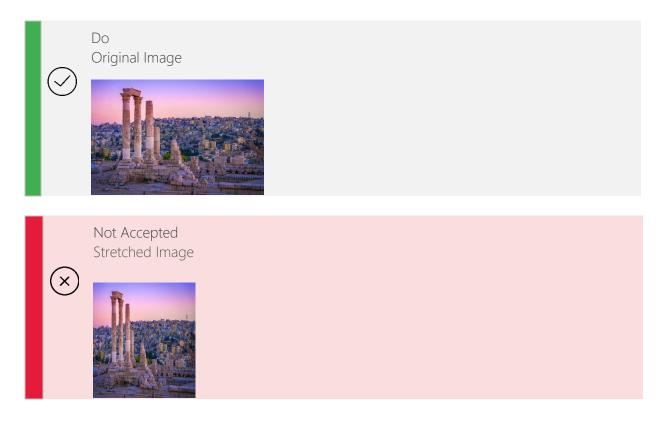
• The menu placement should appear on all pages in a constant location.

Search:

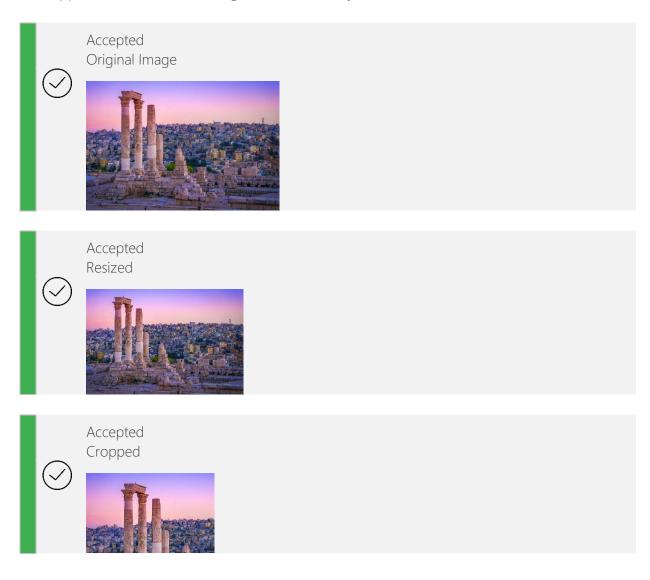
- Site search should appear in a clear location at the mobile design header. Site search should not be placed on the menus.
- Site search should appear on all pages in a constant location.

Images:

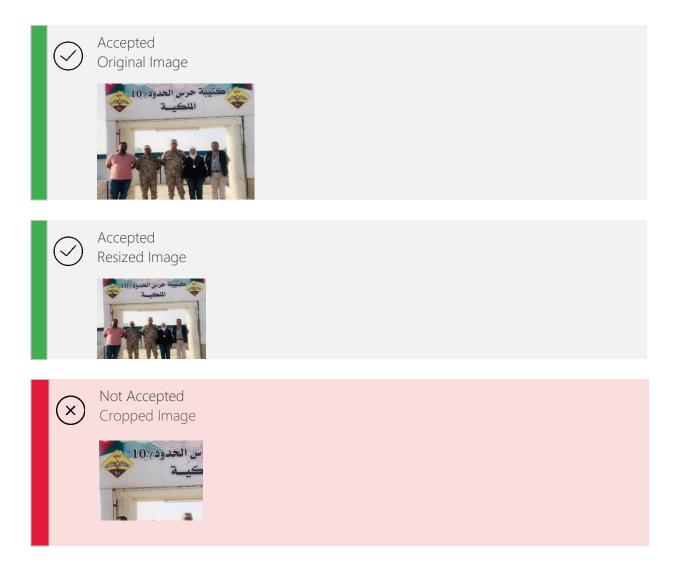
- Unnecessary images that might distract the site visitor should be removed.
- Images should not be stretched or shrunk. All images should be displayed in their original dimension's ratio.



• Design images which is used for decoration purposes can be removed, resized, or cropped to enhance the design and website layout.

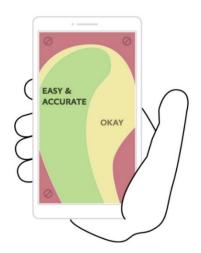


• Content images that are part of the content should be either resized or replaced with another image that is suitable for mobile web view. Cropping is forbidden.



Buttons:

- Buttons need to be large enough to be tapped with a finger. Make sure you keep enough space between buttons for accurate clicking.
- Follow Thumb-Zone Rule stating that when locating buttons, avoid corners: It is hard to reach those places while holding a



mobile device. The reach decreasesFigure 14: Thumb-Zone Rulefurther as the screen size becomes larger.The most important elements andclickable buttons should be placed towardthe middle of the screen.

R.4.2 Content

Conte	ent						
Guide	eline ID: R.4.2						
Deve	lopment Lifecy	cle Stag	ge:				
	Planning	\times	Design a	and Development	Deployment	\times	Operation
Webs	site Service Cat	egory					
\boxtimes	Informative	Website		e-Services Website			

Moving from multiple columns for large screen displays to a single column layout for very

small screens is a typical trait of responsive sites, but layout change doesn't stop with

columns. Different layouts will require different content approaches.

- Breadcrumbs should be removed from all pages.
- Page content should be focusing on the content itself in order not to distract the site visitor with page's side menus and ads banners. Side menus and ads banners should be removed from the mobile web display.
- For more text readability, empty spaces should be increased.

Component 5: Website Security

To secure a website, you should secure the website application itself, infrastructure, and connectivity. This standard document focuses on the minimum requirements of website application security only, whereby complying with these requirements is a must.

When applying and configuring a good website security, it will protect both the entity and the site visitor as below:

	8
Government Entity	Site Visitor
 DDoS attacks: DDoS can slow or crash the site entirely. Malware Protection: Malwares can be used to steal sensitive data, distribute spam, allow cybercriminals to access your site, and more. Blacklisting: The website may remove search engine results due to malwares. Vulnerability Exploits: Cybercriminals can access a site and data stored on it by exploiting weak areas in a site, like an outdated plugin. Defacement: This attack replaces your website's content with malicious content. 	 Steal Data: Like account and payment information. Cybercriminals frequently go after visitor or customer data stored on a site. Phishing Schemes: Some attacks take the form of web pages that look legitimate but are designed to trick the user into providing sensitive information. Session Hijacking: Cyber-attacks can take over a user's session and force them to take unwanted actions on a site. Malicious Redirects: Certain attacks can redirect visitors from the site they intended to visit to a malicious website. SEO Spam: Unusual links, pages, and comments can be put on a site to confuse the site visitors and drive traffic to malicious websites.

Table 8 - Website Security

Based on the Ministry of Digital Economy and Entrepreneurship security standards, all websites should undergo a vulnerability assessment on an annual basis. Remediation of security findings should be reflected on the website to ensure it is secure. Entities should make sure to update their websites to comply with any future security technical guidelines that may be issued by the Ministry of Digital Economy and Entrepreneurship.

WS.5.1 OWASP Top 10

OWA	SP Top 10						
Guide	eline ID: WS.5. ⁻	1					
Deve	lopment Lifecy	/cle Stag	je:				
	Planning	\boxtimes	Design and Development	\boxtimes	Deployment	\boxtimes	Operation
Webs	site Service Ca	tegory					
\boxtimes	Informative	Website	e 🛛 e-Services Website				

The website should be protected and secured, against OWASP Top 10, where the OWASP Top 10 is a regularly updated report outlining security concerns for web application security, focusing on the 10 most critical risks.

Before release, the developed website should go under penetration test against OWASP Top 10. All discovered vulnerabilities of impact on business should be treated.

Websites should be tested at least annually, for security vulnerabilities, the frequency of testing should be decided before launch. All discovered vulnerabilities of impact on business should be treated.

The OWASP report has been put together by a team of security experts from all over the world. According to OWASP Top 10 2021 report, below are the main security risks: The Open Web Application Security Project (OWASP) is a worldwide not-for-profit charitable organization focused on improving the security of software. For more information visit: https://www.owasp.org

(j)

For a technical and in-depth look at the OWASP Top 10 and how to prevent them, visit: <u>https://owasp.org/Top10/</u>

- Broken Access Control: Access control enforces policy such that users cannot act outside of their intended permissions. Failures typically lead to unauthorized information disclosure, modification, or destruction of all data or performing a business function outside the user's limits.
- Cryptographic Failures: the website should protect sensitive data such as financial information and passwords. One popular method for stealing sensitive information is using a man-in-the-middle attack.
- 3. Injection: Injection attacks happen when untrusted data is sent to a code interpreter through a form input or some other data submission to a web application. For example: An attacker could enter SQL database code into a form that expects a plaintext username. If that form input is not properly secured, this will result in that SQL code being executed. This is known as an SQL injection attack.
- Insecure Design: is a broad category representing different weaknesses, expressed as "missing or ineffective control design."
- 5. Security Misconfiguration: Security misconfiguration is the most common vulnerability on the list and is often the result of using default configurations or displaying excessively verbose errors.

- 6. Vulnerable and Outdated Components: This threat occurs when using components such as libraries and frameworks form untrusted Component developers or not updating the components.
- 7. Identification and Authentication Failures: Confirmation of the user's identity, authentication, and session management is critical to protect against authenticationrelated attacks. There may be authentication weaknesses if the application:
- Permits automated attacks such as credential stuffing, where the attacker has a list of valid usernames and passwords.
- Permits brute force or other automated attacks.
- Permits default, weak, or well-known passwords, such as "Password1" or "admin/admin".
- Uses weak or ineffective credential recovery and forgot-password processes, such as "knowledge-based answers," which cannot be made safe.
- Uses plain text, encrypted, or weakly hashed passwords data stores
- Has missing or ineffective multi-factor authentication.
- Exposes session identifier in the URL.
- Reuse session identifier after successful login.
- Does not correctly invalidate Session IDs. User sessions or authentication tokens (mainly single sign-on (SSO) tokens) aren't properly invalidated during logout or a period of inactivity.
- 8. Software and data integrity failures: it is related to code and infrastructure that does not protect against integrity violations. An example of this is where an application relies upon plugins, libraries, or modules from untrusted sources, repositories, and

content delivery networks (CDNs). An insecure CI/CD pipeline can introduce the potential for unauthorized access, malicious code, or system compromise. Lastly, many applications now include auto-update functionality, where updates are downloaded without sufficient integrity verification and applied to the previously trusted application. Attackers could potentially upload their own updates to be distributed and run on all installations. Another example is where objects or data are encoded or serialized into a structure that an attacker can see and modify is vulnerable to insecure deserialization.

- Security Logging and Monitoring Failures: this category is to help detect, escalate, and respond to active breaches. Without logging and monitoring, breaches cannot be detected.
- 10. Server-Side Request Forgery (SSRF) SRF flaws occur whenever a web application is fetching a remote resource without validating the user-supplied URL. It allows an attacker to coerce the application to send a crafted request to an unexpected destination, even when protected by a firewall, VPN, or another type of network access control list (ACL).

As modern web applications provide end-users with convenient features, fetching a URL becomes a common scenario. As a result, the incidence of SSRF is increasing. Also, the severity of SSRF is becoming higher due to cloud services and the complexity of architectures.

WS.5.2 HTTPS Protocol

HTTPS	S Protocol						
Guide	line ID: WS.5.2	2					
Devel	opment Lifecy	cle Stag	je:				
	Planning		Design	and Development	\boxtimes	Deployment	Operation
Webs	ite Service Cat	egory					
\boxtimes	Informative ^v	Website		e-Services Website			

- All government websites must be switched to HTTPS protocol to make sure that site visitors are interacting with the proper server and nothing else can alter or intercept the content they are viewing.
- HTTPS certificate must be renewed every year.

(j)

HTTPS protocol will also improve the search ranking. Google is rewarding websites that use HTTPS.

WS.5.3 Software Updates

Softw	are Updates						
Guide	eline ID: WS.5.3						
Devel	opment Lifecy	cle Stag	je:				
	Planning		Design	and Development	Deployment	\boxtimes	Operation
Webs	ite Service Cat	egory					
\boxtimes	Informative \	Website		e-Services Website			

Failing to update the website's software, security, and scripts when necessary is a sure way to

allow intruders and malware to take advantage of the website.

- The website Content Management System must always be up to date, including all plugins and 3rd party components.
- The hosting environment updates and patches should be installed once they are released.

WS.5.4 Restrict File Uploads

Restrict File Uploads	
Guideline ID: WS.5.4	
Development Lifecycle Stage:	
Planning Set Design and Development	🗆 Deployment 🛛 Operation
Website Service Category	
\boxtimes Informative Website \boxtimes e-Services Website	

Having files uploaded on the website by site visitors is risky, where files could potentially contain a script that exploits vulnerabilities on the website when executed on the server.

- Files uploaded by visitors should be restricted to extension, where executable files should be banned.
- Acceptable types of file extensions should be specified, and all other file types should be banned.
- Files uploaded by the site visitors must be stored in separate folders and databases.
- Double extension files should be banned.
- Where possible, and of high risk, use antimalware detection like Sandboxing

technology as close as possible to upload transactions.

WS.5.5 Using Captcha

Using	Using Captcha										
Guide	Guideline ID: WS.5.5										
Development Lifecycle Stage:											
	Planning	\boxtimes	Design a	and Development		Deployment		Operation			
Webs	Website Service Category										
\boxtimes	Informative V	Vebsite	\boxtimes	e-Services Website							

A CAPTCHA is a program that protects websites against bots by generating and grading tests that humans can pass but current computer programs cannot. *For example: Humans can read distorted texts, but current computer programs can't.*

• All website forms should contain captcha, where the captcha result should be successful

before submission.

• The CAPTCHA to be used should be as secure as reCAPTCHA v3, and protect the forms

from Bots.

(i

• The CAPTCHA to be used should collect as minimum user data as possible where user's consent should be gained.

For more information on how to use reCAPTCHA, visit https://developers.google.com/recaptcha/

WS.5.6 Users Passwords

Users Passwords										
Guideline ID: WS.5.6										
Development Lifecycle Stage:										
oxtimes Planning $oxtimes$ Design and Development	🛛 Deployment 🖾 Operation									
Website Service Category										
$oxed{B}$ Informative Website $oxed{B}$ e-Services Website										

It is crucial to use strong passwords to the hosing environment and website admin area, but equally also important to insist on good password practices for your site visitor to protect the security of their accounts.

- Strong password policy should be configurable, and strong passwords should be set; password should follow the below best practices at minimum:
 - Configure the 8 4 Rule: This rule helps you to build strong passwords, where (8 = 8 characters' minimum length) (4 = 1 lower case + 1 upper case + 1 number + 1 special character).
 - Enforce passwords that are at least 8 characters in length. 10 characters or longer are better.
 - No personal password allowed.
 - Use different passwords for different accounts.
 - o Avoid dictionary words.
 - Configure the password change functionality requires the user's current and new password.
 - Verify that a password strength meter is provided to help users set a stronger password.
- Passwords should always be stored as hashed encrypted values.
- Accounts should be periodically locked out after three failed logins.

WS.5.7 Viruses and Malware

Viruse	es and Malware								
Guide	Guideline ID: WS.5.7								
Devel	Development Lifecycle Stage:								
	Planning				Deployment	\boxtimes	Operation		
Website Service Category									
\boxtimes	Informative Website	\times	e-Services Website						

- Website and hosting environment should be well protected from viruses and malware.
- Staging and Development environment should be well protected from malware.

WS.5.8 Adjust Default Settings

Adjus	Adjust Default Settings										
Guide	Guideline ID: WS.5.8										
Development Lifecycle Stage:											
	Planning		Design	and Development	\boxtimes	Deployment		Operation			
Webs	Website Service Category										
\boxtimes	Informative '	Website		e-Services Website							

- Default setting, account, configuration must be changed for both hosting environment and content management system.
- All default user names (like admin, default.aspx, index.aspx...etc.) should be renamed. The access URL for admin panel/CMS, should also be renamed.

WS.5.9 Error Messages

Error Messages									
Guideline ID: WS.5.9									
Development Lifecycle Stage:									
Planning Design and Development	🖾 Deployment 🖾	Operation							
Website Service Category									
oxtimes Informative Website $oxtimes$ e-Services Website									

- If an error occurs while the site visitor is browsing the website, the error messages should display minimum information on the error.
- Keep detailed errors in your server logs and show site visitors only the information they need.
- No data revealing the structure of any component of the website is allowed to show in the error message.
- The website should provide a suggestion to bypass the error.

WS.5.10 Secure APIs

Secur	Secure APIs										
Guide	Guideline ID: WS.5.10										
Development Lifecycle Stage:											
	Planning	\boxtimes	Design	and Development	\boxtimes	Deployment	\boxtimes	Operation			
Webs	Website Service Category										
\boxtimes	Informative V	Vebsite		e-Services Website							

API stands for Application Programming Interface, which is used to access data and features

of other applications, services, or operating systems.

- APIs should always be HTTPS to avoid man-in-the-middle-attacks.
- Passwords should never be stored as plain text; they should always be hashed in

addition; symmetric encryption must be strictly avoided.

- Use OAuth2, which enables a third-party application to obtain limited access to the service.
- Tokens should have an expiration time to reduce the breach impact if the token was leaded.
- Based on the API business, the API should have a limitation on how many times the client is allowed to call the API.
- The Parameters must always be validated to avoid SQL Injection.
- IDs must be opaque and globally unique to prevent funking attack. For example: Rather than using the ID "1002" and "1003" use "r5t844 fsg6 fssf2v frb9 bd8".
- IP address filtration is a must when applicable, where the API IP address can only be accessed for certain IPs.
- Adding Timestamp in Request to enable the server to compare the current timestamp to the request timestamp, and only accept the request if it is within (2 minutes) timeframe.
- Information shouldn't be exposed in the URL. For example: Usernames, passwords, session tokens, API keys, etc...

WS.5.11 Security Logging and Auditing

Securi	Security Logging and Auditing										
Guide	Guideline ID: WS.5.11										
Development Lifecycle Stage:											
	Planning	\boxtimes	Design a	and Development		Deployme	ent 🛛	Operation			
Webs	Website Service Category										
\boxtimes	Informative V	Vebsite	\boxtimes	e-Services Website							

- The website security transactions should be audited for adequate time.
- Verify that logs are securely transmitted to a preferably remote system for analysis, detection, alerting, and escalation.
- All components of the system should be time-synchronized.

WS.5.12 Roles and privileges

Roles	Roles and privileges										
Guide	Guideline ID: WS.5.12										
Development Lifecycle Stage:											
	Planning	\times	Design	and Development		Deployment	\boxtimes	Operation			
Webs	Website Service Category										
\boxtimes	Informative \	Nebsite	\boxtimes	e-Services Website							

- Roles of users should be provided on least-privilege and need-to-know basis.
- Roles and privileges should be agreed on planning phase.

WS.5.13 Development Environment

Development Environment

Guideline ID: WS.5.13

Development Lifecycle Stage:

	Planning	\boxtimes	Design a	and Development			Deployment		Operation	
Website Service Category										
\boxtimes	Informative We	bsite	\boxtimes	e-Services Website						

- Use separate environment for development
- Store all forms of code including source code, executable code, and configuration-as-code
 based on the principle of least privilege so that only authorized personnel, tools, services, etc. have access.
- Ensure that all components of the environments for software development are strongly protected from internal and external threats to prevent compromises of the environments or the software being developed or maintained within them

WS.5.14 Secure communication

Secur	Secure communication										
Guideline ID: WS.5.14											
Development Lifecycle Stage:											
	Planning		Design	and Development		Deployment	\boxtimes	Operation			
Webs	Website Service Category										
\boxtimes	Informative \	Website	\boxtimes	e-Services Website							

- Communication between all system components should be highly authenticated using certificates. TLS certificates to prevent man-in-the-middle attack.
- Whenever classified data is transmitted, it should go over encrypted channel.

WS.5.15 Third party software

Third	Third party software										
Guide	Guideline ID: WS.5.15										
Development Lifecycle Stage:											
	Planning	\boxtimes	Design	and Development		Deployment	\boxtimes	Operation			
Webs	Website Service Category										
\boxtimes	Informative V	Vebsite	\boxtimes	e-Services Website							

- If used third party SW should be checked against backdoors and vulnerabilities.
- The use of third-party SW should be documented and tracked for security updates.