



WEBSITE DEVELOPMENT

SWDWD301

DEVELOP A WEBSITE

Competence

RQF Level: 3 Learning Hours

150

Credits: 15

Sector: ICT AND MULTIMEDIA

Trade: SOFTWARE DEVELOPMENT

Module Type: Specific

Curriculum: TVET Certificate III in Software Development

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Issue Date: June, 2022

Purpose statement	This specific module provides the skills, knowledge and attitude for a learner to be competent in a range of routine tasks and activities. Upon completion of this module, the learner will be able to develop static website.					
Delivery modality	Training delivery	Total 100%				
	Theoretical content		30%		30%	
	Practical work:					
	Group project and presentation	20%	70%	Formative assessment	70%	50%
	Individual project /Work	50%				
				Summative Ass	essment	50%

Elements of Competency and Performance Criteria

Elements of competency	Performance criteria			
1. Apply keyboard	1.1 Characters are properly used according to the task.			
skills	1.2 Shortcuts keys are properly used based on its functionality			
	1.3 Typing technique is accurately applied based on typing speed.			
	2.1 Text editor and web browser is properly set up based on the project to be developed.			
2. Create web	2.2 HTML file is efficiently created in accordance with the project page.			
structures	2.3 Page layouts are accurately created in line with the project goals			
	2.4 Page is properly optimized based on SEO & accessibility best practices			
2 Ctrylo rusoh	3.1 CSS files are efficiently created in accordance with CSS best practices.			
3. Style web elements	3.2 Typography is clearly defined and used in accordance with the project goals.			
Cicinents	3.3 Media query rules are correctly set based on target devices.			

Course content

Learning outcomes:	At the end of the module the learner will be able to:			
	1. Apply keyboard skills			
	2. Create web structures			
	3. Style web elements			
Learning outcome 1: Apply keyboard skills	Learning hours: 20			
	Indicative content			
Use of keyboard characters				
✓ Definition				
✓ Types				
✓ Parts				
• Combination keys and their use				
• Application of typing technique				
✓ Typing tips				
Hand positioning				
♣ Body posture				
↓ Ergonomics	♣ Ergonomics			
♣ Typing speed				
✓ Use of typing master				
♣ Check total number of wo	ords written per minute			
♣ Maintain writing errors	,			
Games to improve typing	gspeed			
Resources	required for the learning outcome			
Equipment • Computers				
Materials • Internet				
Electricity				

Tools	•	Typing editors(Notepad)
	•	Typing software
Facilitation techniques	•	Practical exercise
	•	Demonstration
Formative assessment	•	Written assessment
methods	•	Performance assessment

Learning outcome 2: Create web structures	Learning hours: 70
	Indicative content

• Definition of general key terms

- ✓ Webpage
- ✓ Website
- ✓ Web browser
- ✓ Text editor
- ✓ URL
- ✓ Hyperlink

Setting up of text editor and web browser

- ✓ Examples of text editor
- ✓ Types and function of web browser
- \checkmark Installing text editor and web browser
 - From storage drive
 - **♣** From internet

Creating a web page in HTML

- ✓ Description of website
 - Types
 - **4** Function
- ✓ Introduction to HTML
- ✓ Description of HTML tag
 - Definition
 - **♣** Types and examples
 - Tag attributes
- ✓ Developing first simple webpage
 - ♣ Use HTML page structure
 - Use HTML extension to save document
 - Display contents using web browser

- ✓ Developing webpage using HTML tag categories
 - Formatting tags
 - Table tags
 - Form tags
 - Heading tags
 - List tags
 - Media tags
 - Code tags
 - **HTML** frame tags
 - **HTML** Comment
 - Grouping tags (div, span)
- ✓ Use of Hyperlinks
 - **♣** Syntax
 - ♣ Default link appearance
 - **4** Types
- ✓ Use of HTML graphics
 - Canvas tags
 - **♣** SVG tags
- Managing page layout in HTML
 - ✓ Definition of page layout
 - ✓ Parts of webpage
 - ✓ Use HTML tags to organise page layout
- Optimizing webpage in HTML
 - ✓ Definition of optimization
 - ✓ Benefit of applying SEO on webpage
 - ✓ Use HTML tags to optimize webpage
 - Meta
 - **4** Title
 - Heading
 - Image alt
 - **HTML** semantic tags
 - ✓ Web accessibility
 - **♣** HTML Role
 - ♣ Test and Standard Validation

	Resources required for the indicative content
Equipment	ComputersProjector
Materials	InternetElectricity

Tools	•	Text editor (Notepad, Notepad++, Sublime text)
	•	Web browser
Facilitation techniques	•	Practical exercise
	•	Group discussion
	•	Demonstration
	•	Trainer guided
Formative assessment	•	Written assessment
methods	•	Performance assessment

earning outcome 3: Style web elements	Learning hours: 60				
Indicative content					
• Introduction to CSS					
✓ Definition					
✓ Utility					
✓ Types					
 Creating CSS files 					
✓ CSS syntax					
↓ Selector					
↓ Declaration					
✓ Use of CSS style types					
Inline					
♣ Internal					
♣ External					
♣ Imported ✓ Use CSS Visual rules					
Vose C55 visual rules					
Colors and backgrou	and colors				
	ind Colors				
Background image					
✓ Use CSS Display and positio	oning				
	6				
♣ Absolute					
↓ Fixed					
↓ Sticky					
↓ Block					
✓ Use CSS Box model					
👃 Height and width					
🖶 Borders					
🖶 Border radius					
Padding					

- Margin
- ♣ Visibility
- Auto

• Applying Typography on webpage

- ✓ Introduction to typography
- ✓ Use CSS scripts for typography
- ✓ Use HTML tags required for typography
- ✓ Embed and position project object in webpage content

• Setting media query rules

- ✓ Description of media query rules
 - Definition
 - ♣ Identify the device types
- ✓ Use of breakpoint
 - **♣** For Desktop
 - ♣ For Tablet
 - **♣** For Smartphone
- ✓ Media orientation
 - Portrait
 - **4** Landscape
- ✓ Hide elements with media queries
- ✓ Variable Font Size

	Resources required for the indicative content
Equipment	• Computers
	Projector
Materials	Internet
	Electricity
Tools	Text editor (Notepad, Notepad++,Sublime text)
	Web browser
Facilitation techniques	Practical exercise
	Group discussion
	Demonstration
	Trainer guided
Formative assessment	Written assessment
methods	Performance assessment

INTEGRATED/SUMMATIVE ASSESSMENT

INTEGRATED SITUATION

KIRA Clinic is a private health center located at Nyagatare District. It offers different healthy services such as: treatment for illness, Laboratory testing and vaccination.

Despite the fact that the clinic uses advanced medical knowledge, they face the problem that many people do not know the services they provide.

As a front-end web developer, you are hired to develop a website which will satisfy and accomplish **KIRA Clinic** needs. You are ought to make the website that will looks like the following:



Our Services



Treatment for illness

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vitae imperdiet tellus dui arcu. Mauris neque, neque tellus at massa. Pharetra, vitae nunc fermentum, quisque. Potenti ullamcorper eget ultricies pretium ante.



Lorem ipsum dolor sit amot, consectetur adipiscing elit. Vitac imperdiet tellus dui arcu. Mauris neque, neque tellus at massa. Pharetra, vitac nunc fermentum, quisque. Potenti ullamcorper eget ultricles pretium ante:

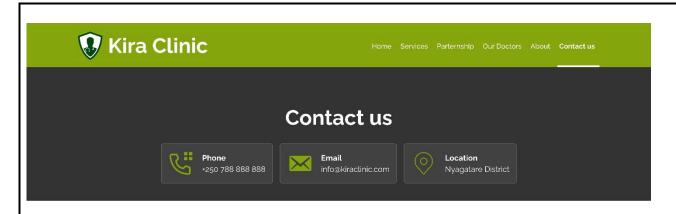




Vaccinations for all

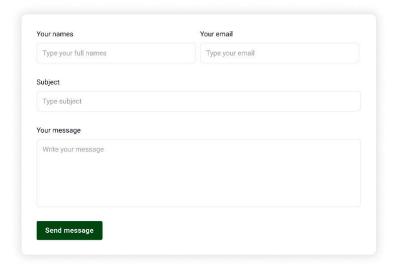
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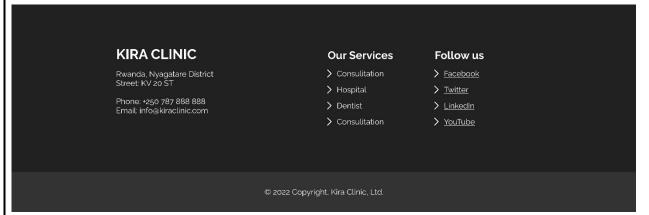
KIRA CLINIC Our Services Follow us Rwanda Nyagadare District Street. KY 207 Phone: *z50 787 888 888 Email: infogikiractinic com Consultation Consulta



Love to hear from you,

Let's get in touch!





This task will be performed within 6 hours.

All materials, tools and equipment are provided by KIRA Clinic

Resources

Tools	Text editor (Notepad, Notepad++, Sublime text)Web browser
Equipment	• Computer
Materials/ Consumables	• Electricity

Assessable	Assessment criteria (Based	Indicator	Observation		Marks allocation
outcomes	on performance criteria)	Indicator	Yes	No	
	Setting up text editor and browser	Ind 1. Text editor is installed			4
		Ind 2. Browser is installed			4
	Creating HTML file	Ind 1. Website is displayed			3
Create web		Ind 2. Logo is inserted			3
structures		Ind 3. Home menu is created			5
		Ind 4. Services menu is created			3
		Ind 5. Parternship menu is created			3
		Ind 6. Our Doctors menu is created			3
		Ind 7. About menu is created			3
		Ind 8.Contact Us menu is created			3
		Ind 9.Contact Us menu is working			4
		Ind 10. Background image is inserted			5
		Ind 11. Images are inserted			5
		Ind 12. Text is inserted			5

		Ind 11. Social media links are created	5
		Ind 12. Addresses are inserted	4
		Ind 13. Copyright is created	3
		Ind 14. Footer is created	5
	Respecting page layout	Ind 1. Text is arranged	5
		Ind 2. color is defined	5
		Ind 3. Background colors are defined	5
		Ind 4. Images are arranged	5
Total marks			/90
Percentage Weigh	ntage		%
Minimum Passing	g line % (Aggregate): 70%		

References:

[1] Ben Stegner, Windows Shortcuts 101: The Ultimate Keyboard Shortcut Guide, July 2017

Available: Windows Keyboard Shortcuts 101: The Ultimate Guide (makeuseof.com)

- [2] computer-keyboard-explanations.pdf (mo.gov) (visited on 25/6/2022)
- [3] Learn HTML Tutorial javatpoint (visited on 23/06/2022)
- [4] Responsive Web Design Media Queries (w3schools.com)
- [5] GPRS Tutorial (matfuvit.github.io) (visited on June 27, 2022)

List of abbreviatons

SEO	Search Engine Optimazation
SVG	Scalable Vector Graphics