



Republic of Rwanda
Ministry of Education



SWDWD301

WEBSITE DEVELOPMENT

DEVELOP A WEBSITE

Competence

RQF Level: 3

Learning Hours

120



Credits: 12

Sector: ICT AND MULTIMEDIA

Trade: SOFTWARE DEVELOPMENT

Module Type: Specific

Curriculum: ICTSWD3002 - TVET Certificate III in Software Development

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1200

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		100%	Assessment		Total 100%
	Theoretical content		30%	Formative assessment	30%	50%
	Practical work:		70%		70%	
	• Group project and presentation	20%				
	• Individual project /Work	50%				
			Summative Assessment		50%	








Elements of Competency and Performance Criteria

Elements of competency	Performance criteria
1. Apply keyboard skills	1.1 Characters are properly used according to the task.
	1.2 Shortcuts keys are properly used based on its functionality
	1.3 Typing technique is accurately applied based on typing speed.
2. Create web structures	2.1 Text editor and web browser is properly set up based on the project to be developed.
	2.2 HTML file is efficiently created in accordance with the project page.
	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
3. Style web elements	3.1 CSS files are efficiently created in accordance with CSS best practices.
	3.2 Typography is clearly defined and used in accordance with the project goals.
	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: <ol style="list-style-type: none"> 1. Apply keyboard skills 2. Create web structures 3. Style web elements
Learning outcome 1: Apply keyboard skills	Learning hours: 15
Indicative content	
<ul style="list-style-type: none"> • Use of keyboard characters <ul style="list-style-type: none"> ✓ Definition ✓ Types ✓ Parts • Combination keys and their use • Application of typing technique <ul style="list-style-type: none"> ✓ Typing tips <ul style="list-style-type: none">  Hand positioning  Body posture  Ergonomics  Typing speed ✓ Use of typing master <ul style="list-style-type: none">  Check total number of words written per minute  Maintain writing errors  Games to improve typing speed 	
Resources required for the learning outcome	
Equipment	<ul style="list-style-type: none"> • Computers
Materials	<ul style="list-style-type: none"> • Internet

	<ul style="list-style-type: none"> • Electricity
Tools	<ul style="list-style-type: none"> • Typing editors(Notepad) • Typing software
Facilitation techniques	<ul style="list-style-type: none"> • Practical exercise • Demonstration
Formative assessment methods	<ul style="list-style-type: none"> • Written assessment • Performance assessment

Learning outcome 2: Create web structures	Learning hours: 55
Indicative content	
<ul style="list-style-type: none"> • Definition of general key terms <ul style="list-style-type: none"> ✓ Webpage ✓ Website ✓ Web browser ✓ Text editor ✓ URL ✓ Hyperlink • Setting up of text editor and web browser <ul style="list-style-type: none"> ✓ Examples of text editor ✓ Types and function of web browser ✓ Installing text editor and web browser <ul style="list-style-type: none">  From storage drive  From internet • Creating a web page in HTML <ul style="list-style-type: none"> ✓ Description of website <ul style="list-style-type: none">  Types  Function ✓ Introduction to HTML ✓ Description of HTML tag <ul style="list-style-type: none">  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
- + 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
- + Title
- + Heading
- + Image alt
- + HTML semantic tags

✓ Web accessibility


- + HTML Role
- + Test and Standard Validation

Resources required for the indicative content

Equipment	<ul style="list-style-type: none"> • Computers • Projector
Materials	<ul style="list-style-type: none"> • Internet • Electricity
Tools	<ul style="list-style-type: none"> • Text editor (Notepad, Notepad++, Sublime text) • Web browser
Facilitation techniques	<ul style="list-style-type: none"> • Practical exercise • Group discussion • Demonstration • Trainer guided
Formative assessment methods	<ul style="list-style-type: none"> • Written assessment • Performance assessment

Learning outcome 3: Style web elements	Learning hours: 50
Indicative content	
<ul style="list-style-type: none"> • Introduction to CSS <ul style="list-style-type: none"> ✓ Definition ✓ Utility ✓ Types • Creating CSS files <ul style="list-style-type: none"> ✓ CSS syntax <ul style="list-style-type: none">  Selector  Declaration ✓ Use of CSS style types <ul style="list-style-type: none">  Inline  Internal  External  Imported ✓ Use CSS Visual rules <ul style="list-style-type: none">  Font  Text  Colors and background colors  Opacity  Background image 	

✓ Use CSS Display and positioning

 Relative


 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

 Landscape

✓ Hide elements with media queries

✓ Variable Font Size

Resources required for the indicative content

Equipment

- Computers
- Projector

Materials

- Internet

	<ul style="list-style-type: none"> • Electricity
Tools	<ul style="list-style-type: none"> • Text editor (Notepad, Notepad++, Sublime text) • Web browser
Facilitation techniques	<ul style="list-style-type: none"> • Practical exercise • Group discussion • Demonstration • Trainer guided
Formative assessment methods	<ul style="list-style-type: none"> • Written assessment • 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:



Welcome to Kira Clinic

We are clinic that offers consultation and treat various sickness

[Get Started](#)

[Contact Us](#)

Our Services

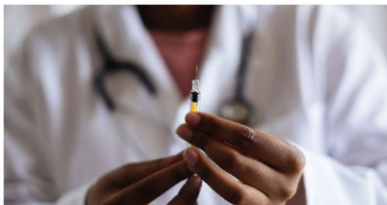


Treatment for illness

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.

Basic laboratory

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.



Vaccinations for all

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.

KIRA CLINIC

Rwanda, Nyagatare District
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Email: info@kiraclinic.com

Our Services

- > Consultation
- > Hospital
- > Dentist
- > Consultation

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Contact us



Phone
+250 788 888 888



Email
info@kiraclinic.com



Location
Nyagatare District

Love to hear from you,
Let's get in touch!

Your names

Your email

Subject

Your message

Send message

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This task will be performed within 6 hours.
All materials, tools and equipment are provided by **KIRA Clinic**

Resources:

Tools	<ul style="list-style-type: none"> Text editor (Notepad, Notepad++, Sublime text) Web browser
Equipment	<ul style="list-style-type: none"> Computer
Materials/ Consumables	<ul style="list-style-type: none"> Internet

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

		Social media links are created			5
		Addresses are inserted			4
		Copyright is created			3
		Footer is created			5
	Respecting page layout	Text is arranged			5
		color is defined			5
		Background colors are defined			5
		Images are arranged			5
Total marks		/100			
Percentage Weightage		%			
Minimum Passing line % (Aggregate): 70%					

References:

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3. Williams, R. (Year). CSS Styling Techniques for Web Elements: Best Practices and Examples. Web Design and Development Journal, volume(issue), page numbers. URL (if available).
4. Ben Stegner, Windows Shortcuts 101: The Ultimate Keyboard Shortcut Guide, July 2017
5. [Windows Keyboard Shortcuts 101: The Ultimate Guide \(makeuseof.com\)](#)
6. [computer-keyboard-explanations.pdf \(mo.gov\)](#) (visited on 25/6/2022)
7. [Learn HTML Tutorial - javatpoint](#) (visited on 23/06/2022)
8. [Responsive Web Design Media Queries \(w3schools.com\)](#)
9. [GPRS Tutorial \(matfuvit.github.io\)](#) (visited on June 27, 2022)