Faculty Name: IT
Qualification Name: FET
Programme Name:
Programming Foundation
Formative Assessment
3 Paper

CTU
training solutions

Private
Tertiary
Education

Table of Contents

Formative Assessment 2 Paper

Faculty Name:	Information Technology
Qualification Name:	IT Certificate in Programming Foundation
Module Name:	Core Web Development Semester 1
Module Code:	CWD412
Hand Out:	26 – 04 – 2024
Hand In:	15 - 05 - 2024
Total Marks:	100
Examiner:	Mr. Thabang Mashile
Resources Required:	Text Editor, XAMP, Web hosting

Scenario-based Question(s)	100 Marks

This Formative Assessment 3 (FA3) contributes 34% towards the final mark.

Instruction(s) to Students

1. All assessments are due at 23:30 (local time) on the specified date.

2. Copying from any source, including other student's work, is strictly prohibited. Plagiarism will result in disciplinary action.

3. Before submitting your assessment, download the "Declaration of Authenticity" form provided by Campus Online. Sign the form and include it as part of your submission.

4. Late submissions will be accepted within a three-day grace period after the closing date. However, there will be a deduction in marks:

5. On the first day, a 5% deduction will be applied, From the second day onwards, the deduction will be 5% per day, up to a maximum deduction of 15%.

6. If you need to submit your assessment during the grace period, you must inform your facilitator.

    It is your responsibility to ensure that you have access to a reliable internet connection and the necessary resources to complete and submit your assessment on time.

Scenario Question(s)   100 Marks

Study the scenario and complete the question(s) that follow:

Development of CTU-Buddy Educational System

In this scenario, you and your team are embarking on the development of CTU-Buddy, an educational system for City Technical University (CTU). Your objective is to create a comprehensive and interactive website that enhances the learning experience for students. CTU-Buddy will consist of various pages, each with specific features and functionalities.

As a team, you gather to discuss the project's requirements and brainstorm ideas for the website. After careful consideration, you decide on the following pages to be included in CTU-Buddy: Home, Timetable, Discussion, Share Resources, About Us, and Contact Us.

The Home page will serve as the central hub of CTU-Buddy, providing an appealing and engaging interface. Through the use of images, videos, and animations, you aim to captivate users and create an immersive experience. The page will showcase relevant information about the system, highlighting its key features. Additionally, a footer will be included on all pages, offering convenient navigation options.

The Timetable page is crucial for students to manage their schedules effectively. By utilizing HTML tables and CSS, you will design an aesthetically pleasing and user-friendly timetable. It will display the date, time, modules, and days of the week, enabling students to access their weekly schedules easily. The responsive design will ensure seamless functionality across different devices.

The About Us page will provide valuable insights into CTU-Buddy and the team behind its development. It will include information about the system's purpose, vision, and mission, as well as the individuals involved in creating it. This page aims to foster a sense of connection and trust between users and the CTU-Buddy platform.

On the Contact Us page, you will integrate a contact form, allowing users to submit inquiries, suggestions, or feedback. Additionally, you will include a map that showcases the location of the CTU campus, providing users with a visual reference and enhancing their experience.

The Share Resources page will enable students to upload and share educational resources in PDF format. Users will be able to navigate through the resources and download them for offline access. The page will incorporate secure and user-friendly features, such as resource uploading, categorization, and search functionality.

For the Discussion page, you will create an interactive platform that encourages students to engage in collaborative learning. Users will be able to post questions related to their studies and receive responses from their peers. The page will incorporate features such as threaded discussions, user profiles, and moderation tools to facilitate a productive and respectful learning community.

As the project nears completion, thorough testing and debugging will be conducted to ensure a seamless user experience across all pages. Any identified issues will be promptly addressed, and refinements will be made to the website's visual elements and functionalities.

Finally, you will organize all project files and documentation into a comprehensive folder structure, including the website files, a document listing the project team members, and an SRS (Software Requirements Specification) document. The folder will be compressed using an appropriate compression tool and uploaded for submission.

Upon successful completion, CTU-Buddy will revolutionize the educational experience at City Technical University. Students will have a user-friendly platform that helps them manage their timetables, engage in discussions, share resources, and connect with their peers and educators effectively. CTU-Buddy will serve as an invaluable tool in fostering academic success and facilitating an enhanced learning environment at CTU.

Source: Manganyi J., (2023).

Phase 3 & Final Presentation.

The following is what is expected for your group to submit:
- Please note that even though this is a group project, all members' details must be in a text file or document named student name.
- All of your group members are to submit the same group work.
- You add Phase 3 & Final Presentation on top of Phase 2, you continue where you stopped by adding the functionalities specified below.

Recap:
- Add a logo on all pages (Top left of each webpage)
- Add a footer on all pages (Fixed on the bottom of each webpage). This should display the name of the group, a copyright symbol, and the year the website was built.

Improvements:
1. **About Us page**
   - Add an organogram, with your professional pictures.
   - Below each member's picture add their name and roles e.g., lead web developer, database administrator, quality assurer - this must be in a tabular format.

2. **Share Resources page**
   - The Share Resources page allows students to upload PDF files.
   - The uploaded resources must be downloadable for users.

3. **Discussion page**
   - The Discussion page must enable users to post questions related to their studies, and others can respond to those questions.
   - This page must include a form, where users can write their name and a question or comment.

4. **The Contact Us page**
   - Includes a form for users to subscribe, allowing them to provide their information i.e., email addresses.
   - Additionally, a map of the campus is displayed, providing users with a clear visual representation.

Additionally, Research:

Software usage

Make use of XAMP, or any other back-end database management software for the following functionalities

- File upload and download functionality.
- Question and comment functionality.
- Subscription functionality.

*NB: Utilize **free web-hosting** sites to implement these functions, running the site locally will limit some of these functions.*

User guide

- Draft a user guide for the website, which includes detailed instructions, and arrow labels that explain how to navigate and utilize the various features and functionalities of the website.
- Includes a URL link to the website online.
- The user guide must be well-organized, clear, and comprehensive detailing each page sequentially.
- This must be a Word/pdf document.

Presentation video.

- This must NOT exceed 3 minutes.
- This video must show all pages of the site from top to bottom sequentially.

Organize everything in a folder named **"FinalPhase_YourGroupName_2024"** The folder includes the full website, a document containing the names of group members, the SRS document, the draft user guide, and a short video. The folder is compressed into a zip file using 7zip or a similar tool.

NB!!! Use the rubric on your study guide for a breakdown of mark allocations, also see the addendum below.

[Total = 100 Marks]

End of Phase 3
& Final
Presentation

ADDENDUM A

Additional Rubric – NB: This rubric is an addition to the one on the study guide.

Criteria	Excellent (10)	Good (8 – 6)	Fair (5 – 3)	Poor (2 - 0)
Presentation Video	A 3-minute video is added, showing all pages from top to bottom, sequentially	A 3-minute video is added, but it does not show all pages, from top to bottom, sequentially	A 3-minute video is added, but it does not show all pages, it is not sequentially.	No video was added. Wrong video was added. A video was added but it does not show much of the website.
Software Usage	Made use of XAMP, or any other back-end	Made use of XAMP, or any other back-end	Made use of XAMP, or any other back-end	**Did not** make use of XAMP, or any other back-end

	database management software for **all** of the following functionalities: File upload and download functionality. Question and comment functionality. Subscription functionality.	database management software for **most** of the following functionalities: File upload and download functionality. Question and comment functionality. Subscription functionality.	database management software for **some** of the following functionalities: File upload and download functionality. Question and comment functionality. Subscription functionality.	database management software for **all** of the following functionalities: File upload and download functionality. Question and comment functionality. Subscription functionality.
About-us page organogram	All members are listed in a tabular format, containing their pictures, names, and roles	Most members are listed in a tabular format, containing their pictures, names, and roles	Some members are listed in a tabular format, containing their pictures, names, and roles	No members are listed in a tabular format, containing their pictures, names, and roles
Website hosted	The website is hosted online URL provided on the user-guide document	The website is running locally	The website is somewhat static	The website is fully static.
Feedback comments to students				
				Total marks: .