ICT502 – Internet and Web Development Assessment 4 – <mark>Individual</mark> Assignment

The purpose of this assignment is to develop the student's skills in web development.

Timelines and important information

Percentage value of Task: <mark>40%</mark>

Due: <mark>Week 12</mark> Submitting your work late will attract a 10% reduction of mark for each day beyond the due date. A delay of more than 5 days will result in being granted a **0**.

Objective: The objective of this assignment is to design and develop a web application using HTML, CSS, JavaScript, and PHP. The web application should demonstrate your understanding of these technologies and their capabilities, as well as your ability to work in a team.

Description:

In this assignment, you will be required to develop a web application. The web application can be of any topic of your choice, as long as it demonstrates your understanding of HTML, CSS, JavaScript, and PHP.

To complete this assignment, you will need to do the following:

Choose a topic for your web application and come up with a list of features that you want to include in the application. Make sure to choose a topic that is feasible to implement within the time frame of this assignment. You need to always check with your lecturer/tutor regarding the features that you want to include in your projects

User interaction is one of the key element in web design. So, you need to design a database to create profile for the users, be able to authenticate them and customise their page based on the profile information. Use SQL database and connect the website to the database using using PHP.

Design the layout and user interface of the web application using HTML and CSS. This should include the overall structure of the web application as well as the styling and formatting of the different elements on the page.

Implement the logic and functionality of the web application using JavaScript and PHP. This may include things like form validation, database integration, and server-side processing.

Test the web application to ensure that it is functional and user-friendly. This may include both manual testing as well as automated testing using tools such as Selenium.

Prepare a presentation to demonstrate your web application to the class. The presentation should include a brief overview of the web application, a demonstration of its features and functionality, and a discussion of the technologies used to build it.

Submission:

• The web application should be hosted on a web server and a URL should be provided in the report for review.
• The source code for the web application should be submitted along with the presentation.
• A report containing a detailed description of the web application and the technologies used should be submitted along with the presentation.
• All of the documents should be submitted in a zip file. The report should include:

• A description of the web application and its features
• A discussion of the technologies used to build the web application
• A description of the design and development process
• A description of any challenges encountered and how they were overcome
• A description of the testing process and the results
• The URL of the website in the word document for review.

Marking Criteria:

Criteria	Points
Quality of web application design and user interface	15 points
Functionality and usability of the web application	20 points
Proper use of HTML, CSS, JavaScript, and PHP	20 points
Overall presentation and demonstration of the web application	15 points
Quality of the report and its relevance to the web application	15 points
Code quality and documentation	15 points
Total	100 points

Explanation of criteria:

Quality of web application design and user interface: This refers to the visual appeal and usability of the web application. Points will be awarded based on the overall design of the web application, including the layout, color scheme, and formatting.

Functionality and usability of the web application: This refers to the effectiveness and user-friendliness of the web application. Points will be awarded based on the completeness and reliability of the features, as well as the ease of use for the user.

Proper use of HTML, CSS, JavaScript, and PHP: This refers to the correct and appropriate use of the technologies required for the assignment. Points will be awarded based on the correct implementation of the technologies and the adherence to best practices.

Overall presentation and demonstration of the web application: This refers to the effectiveness of the presentation and demonstration of the web application. Points will be awarded based on the organization and clarity of the presentation, as well as the demonstration of the key features of the web application.

Quality of the report and its relevance to the web application: This refers to the quality and relevance of the written report submitted with the assignment. Points will be awarded based on the completeness and clarity of the report, as well as its relevance to the web application.

Code quality and documentation: This refers to the quality and documentation of the source code for the web application. Points will be awarded based on the readability and maintainability of the code, as well as the use of appropriate comments and documentation.

Marking Rubric

Criteria	HD 85-100	DI 75-84	CR 65-74	P 50-64	Fail <50
Quality of web application design and user interface (15 marks)	Excellent overall design of the web application, including the layout, color scheme, and formatting.	Good overall design of the web application, including the layout, color scheme, and formatting.	Fair overall design of the web application, including the layout, color scheme, and formatting.	Satisfactory overall design of the web application, including the layout, color scheme, and formatting.	Poor overall design of the web application, including the layout, color scheme, and formatting.
Functionality and usability of the web application (20 marks)	Excellent features' completeness and reliability, as well as the ease of use for the user	Good features' completeness and reliability, as well as the ease of use for the user	Fair features' completeness and reliability, as well as the ease of use for the user	Satisfactory features' completeness and reliability, as well as the ease of use for the user	Poor features' completeness and reliability, as well as the ease of use for the user
Proper use of HTML, CSS, JavaScript, and PHP (20 marks)	Excellent implementation of the technologies and the	Good implementation of the technologies and the	Fair implementation of the technologies and the	Satisfactory implementation of the technologies and the	Poor implementation of the technologies and the
	adherence to best practices.	adherence to best practices.	adherence to best practices.	adherence to best practices.	adherence to best practices.
Overall presentation and demonstration of the web application (15 marks)	Excellent demonstration with full knowledge	Good demonstration. It could be improved better	Fair demonstrations and some of the questions remained unanswered	Satisfactory demonstration and only a few questions answered	Poor or no demonstration
Quality of the report and its relevance to the web application (15 marks)	Excellent completeness and clarity of the report, as well as its relevance to the web application	Good completeness and clarity of the report, as well as its relevance to the web application	Fair completeness and clarity of the report, as well as its relevance to the web application	Satisfactory completeness and clarity of the report, as well as its relevance to the web application	Poor completeness and clarity of the report, as well as its relevance to the web application

| Code quality and documentation

(15 marks)	Excellent readability and maintainability of the code, as well as the use of appropriate comments and documentation	Good readability and maintainability of the code, as well as the use of appropriate comments and documentation	Fair readability and maintainability of the code, as well as the use of appropriate comments and documentation	Satisfactory readability and maintainability of the code, as well as the use of appropriate comments and documentation	Poor readability and maintainability of the code, as well as the use of appropriate comments and documentation