

Assignment and Project

PLEASE READ ALL INSTRUCTIONS AND INFORMATION CAREFULLY.

This is a group assignment (3 to 5 members) and project. The work must be submitted as a group. This assignment and project contribute 40% to your final module mark.

The following learning outcomes will be assessed:

Knowledge

- A critical awareness of the concept of a web development life cycle which will be applied in web application development including project and quality management, site testing, usability and accessibility.

Skills

- Apply web-based analysis and design techniques to specify, design, build and test the web application.
- Apply appropriate methods of planning, monitoring, control and change to the various aspect of a project.

IMPORTANT INFORMATION

You are required to submit your work within the bounds of the University Infringement of Assessment Regulations. Plagiarism, paraphrasing and downloading large amounts of information from external sources, will not be tolerated and will be dealt with severely. Although you should make full use of any source material, which would normally be an occasional sentence and/or paragraph (duly referenced) followed by your own critical analysis/evaluation.

Where you are asked to submit an individual piece of work as a group, the work must be entirely your own. You will receive no marks for work that is not your own. The safety of your assessments is your responsibility. You must not permit another student access to your work. Where referencing is required, unless otherwise stated, APA referencing system must be used.

Assignment and Project: (20% and 20%)

This task is divided into **Two (2)** stages following the content of the module syllabus delivered throughout the semester.

The Background (what you need to **understand** about the current scenario)

KD Academy is a new international and private school in Malaysia with more than 1000 students in total. The CEO wants to make the institution more student oriented and improve efficiency by improving the front office services to increase student satisfaction and learning experiences.

The academy needs a strategy for improving the subject enrollment processing by reducing the waiting time for the course registration at the counter. By allowing student to enroll for courses online with the updated offering list for the current semester, they also decided to use internet and technology to help maintain and capture student attendance, academic performance records, and new learning platform for online classes.

The Tasks

You are a consultant to analyze the needs of a website to support the academy's goals and to develop a prototype solution, deliver and evaluate this solution with your client and document the project in a professional way, just like you would be expected if you were an analyst working for a software house.

By using suitable technologies, you are to determine the exact requirements and to develop a website that serves the purpose of course enrollment, student attendance, performance recording, and online learning platform. The application is to run as a web application. You are to use a database to hold persistent data and connect your application to the database. Your system must at the very least allow the user to create, edit and delete records. You also need to plan your project and generate a project plan with task breakdown. You have to demonstrate your system and confirm that it meets the requirements stated in the software requirement specification document.

The Assignment Task Breakdown and Deliverables

Task	Deliverable	Submission Date	Marks (%)
Requirement analysis <ul style="list-style-type: none"> Collect the related information and conduct literature review. Analyze and define the requirements for the application. 	(Activity 1) Software Requirements Specification (SRS)	Week 10	25 %
Design <ul style="list-style-type: none"> Apply the appropriate development methodology on the design of your web application. 	(Activity 2) Design documentation (UML diagrams - use case, class &, activity/sequence diagrams)	Week 11	25 %
Prototype <ul style="list-style-type: none"> Develop a prototype of your web application with successful database connection. 	(Website) Working prototype	Week 12	30 %
Report <ul style="list-style-type: none"> Apply the appropriate testing methods Screenshot/user manual 	(Final documentation) Report		20 %
TOTAL			100%

The Marking Criteria (how you will be assessed)

There is a single mark for the assignment, which is based on **TWO (2)** sections:

Tasks	Assessment	Marks -100	Marks (%)
Assignment	Documentation -1 (Activity 1 and 2)	50	20%
Project	System prototype Document-2 Report	50	20%
	Total	100	

Documentation (Total 70%):

You need to produce reports your development project, containing the following sections:

- Demonstrated ability to understand and analyze the requirements and the needs of the proposed web application. (25%)
- Ability to competently choose suitable development methodologies, technologies and tools, based on the needs of the project and to argue for them compared to alternatives. (25%)

System prototype (Total 30%):

- The ability to produce a quality system in terms of functionality and interface and that meets the defined requirements. (30%).

Final Report (Total 20%):

The ability to produce final documentation for the web application with screenshots of web pages, source codes, and user manual.

Submission	<ol style="list-style-type: none">1. Documentation -1 (Activity 1 and 2) [Assignment]2. Documentation -2 (Report) [Project]3. Source code4. Zip Folder: Include Documents 1 and 2 and source code (folder name must be any one of the group member's Name with id). <p>*Note: Report: Word Document and Design should be screenshots (clear)</p>
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