

Official (Open)

1. Introduction

1.1 Aims

This module provides students with the practical experience in project planning and foster creativity through the development of an IT application. Students will be able to collaborate and work in teams to gather requirements, design, and implement a solution for users.

1.2 Learning Outcome

At the end of this module, students will be able to:

- apply the process of gathering user requirements and ideating possible solution(s);
- apply project planning, design and implement an IT application; and
- collaborate in teams to deliver a solution that meets users' needs.

2. Project Scenario

2.1 Background

You are a group of creative, innovative, and energetic programmers who intend to propose a software solution to a business challenge. Using the software development methodology, each team shall provide project proposal, create the design, document the specifications, and build the IT application project that can bring value(s) to the company or industry.

2.2 Company/Industry

Choose one company or industry that your team would like to propose a software solution to enhance their business as part of their innovation drive.

2.3 Minimum Requirements

Each team is required to create a GitHub repository to manage the group's project. Your GitHub repository should at least include the following (not limiting)

- Task allocation
- Schedule
- Source codes
- Discussion
- Presentation slides
- References to materials, journals and websites must be clearly included
- All other necessary resources or records

2.4 Tools and Technologies

The application framework for this project shall mainly be Scratch for the IT application. Where appropriate, you may utilise other additional development tools.

3. Project Assessment

Project comprises 60% of the total module mark.

3.1 Assessment Components

Week	Deliverables	Individual	Group	Total (Weightage)
9	Project Proposal			20%
	- Presentation /Delivery	8%		
	- Answer to questions	7%		
	- Innovation		2%	
	- Proposal		3%	
15	Progress Review			10%
	- IT project Management Tools	5%		
	- Functionality	5%		
17	Final Presentation and Report			30%
	- Delivery during presentation	10%		
	- Critical Thinking and Contents Demo	10%		
	- Answer to questions	5%		
	- Interpersonal Collaboration, and Integration skills		2%	
	- Final Report		3%	
Total				60%

3.2 Assessment Rubrics

Week 9 Project Proposal (20%)

Assessment Components	Group (5%)			
	Excellent (A)	Very Good (B)	Good (C)	Satisfactory (D)
Innovation (3%)	At least 4 business needs that require digital innovation by the company/industry/industry, each with detailed analysis, description, and relevant key facts.	3 business needs that require digital innovation by the company/industry, each with detailed analysis, description, and relevant key facts.	2 business needs that require digital innovation by the company/industry, each with detailed analysis, description, and relevant key facts.	2 business needs that require digital innovation by the company/industry, each with some analysis, description, and relevant key facts.
Proposal (2%)	Proposed functionalities that exhibits high level of empathy for user, and incorporate feasible, realistic, and practical workflow that value add to business needs and processes.	Proposed functionalities that exhibits good empathy for user and incorporated mostly feasible, realistic workflows that requires some fine tuning before it can value add to business needs and processes.	Proposed functionalities that exhibits low level of empathy for user, and incorporate workflow that requires some enhancements before it can value add to business needs and processes.	Proposed functionalities that exhibits little empathy for user, and incorporate workflow that requires many enhancements before it can value add to business needs and processes.

Assessment Components	Individual (15%)			
	Excellent (A)	Very Good (B)	Good (C)	Satisfactory (D)
Presentation / Delivery (8%)	Speak clearly with confidence and is able to capture audience attention with active participations.	Speak clearly with confidence and have some interactions with participants.	Speak clearly most of the time but lack of confidence in presentation.	Unclear speech and not able to capture audience attention.



Answer to questions (7%)	Able to respond to all questions with sound explanations.	Able to respond to most questions with reasonable explanations.	Able to response to some of the questions.	Unable to respond to any question.
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Week 15 Progress Review (10%)

Assessment Components	Individual (10%)			
	Excellent (A)	Very Good (B)	Good (C)	Satisfactory (D)
IT project Management Tools (5%)	Excellent use of project management tool (e.g MS Project) and create a consistent, responsive user interface with excellent usability.	Good use of project management tool (e.g MS Project) and create a consistent, responsive user interface with great usability.	Good use of project management tool (e.g MS Project) and create a consistent, responsive user interface with decent usability.	Use of project management tool (e.g MS Project) and create a consistent, responsive user interface with average usability.
Functionality (5%)	Completed at least 80% of the functionality that value add to business needs and processes with the ability to answer technical questions asked about how they work and explain advanced function not taught in class.	Completed at least 70% of the functionality that value add to business needs and processes with the ability to answer technical questions asked about how they work.	Completed at least 60% of functionality with the ability to explain the codes and answer most of the technical questions.	Completed at least 50% of functionality with the ability to explain the codes and answer most of the technical questions.

Week 17 Final Presentation and Report (30%)

Assessment Components	Group (5%)			
	Excellent (A)	Very Good (B)	Good (C)	Satisfactory (D)
Interpersonal, Collaboration & Integration skills (2%)	All members' functionalities are fully integrated and with no error.	All members' functionalities are fully integrated and with 2 or less errors.	Integration attempt with 2 or less functions from member(s) are not integrated (to present on individual laptop).	More than 2 functions from members are not integrated and to present on individual laptop.
Final Report (3%)	Description of final report is clear, concise, and easy to understand.	Description of final report is clear and generally easy to understand with few exceptions (e.g. uses some jargon)	Description of final report is adequate, though the need for greater clarity.	Description is not clear. It may be verbose or utilise a lot of field-specific jargon.

Individual Presentation (25%)				
Assessment Components	Excellent (A)	Very Good (B)	Good (C)	Satisfactory (D)
Delivery during presentation (10%)	<p>Speak clearly with confidence</p> <p>Able to capture audience attention with active participations.</p>	<p>Speak clearly with confidence</p> <p>Have some interactions with participants.</p>	<p>Speaks clearly for most of the time but lack of confidence in presentation.</p> <p>Have little interactions with participants.</p>	<p>Unclear speech and hardly captures the audience attention for most of the time.</p> <p>No interactions with participants.</p>
Critical Thinking and Contents Demo (10%)	<p>Content is well organized during the demonstration. Logical flow of ideas that conveyed clearly to the audience.</p> <p>The scenarios demonstrated well with good user interactions.</p> <p>Content has very clearly provided details of the products or services.</p>	<p>Content is well organized during the demonstration. Audience can follow and interact quite easily.</p> <p>The scenarios demonstrated explained the products or services provided.</p> <p>Content has provided most details of the products or services.</p>	<p>Content is somewhat organized during the demonstration but could have done better.</p> <p>The scenarios demonstrated explain a little on the products or services provided.</p> <p>Content has provided some details of the products or services.</p>	<p>Content is unclear and confusing during the demonstration.</p> <p>The scenarios demonstrated do not clearly explain the, products or services provided.</p> <p>Content has not provided details of the products or services.</p>



Answer to questions (5%)	Able to respond to all questions with sound explanations.	Able to respond to most questions with reasonable explanations.	Able to response to some of the questions.	Unable to respond to any question.
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