

DIP209/DIP2008
IT Mini Project/ Capstone Project
Semester 3, 2024

Assignment No : IT Project Prototype (FA)

Release Date : 21st January 2025, Monday

Due Date : Week 14

Value : 50% of final total

Assessment Type : Individual

Course Learning Outcomes

This assignment assesses the following learning outcomes:

- DIP2008 – CLO1: Produce an IT project to solve business problems (C3, PLO2, MQF2)
- DIP209 – CLO2: Produce artifacts for the planning, design, implementation and testing of a software project (C3, PLO2, MQF2)

Submission Instructions

Submission	Submission to LMS by 2:00 pm No resubmission allowed. It's a SINGLE submission.
Late Submission	Please fill out the Late Submission Form to be considered for extension. Penalty of 5 marks per working day will be imposed if: <ul style="list-style-type: none">- late submission form is not included;- reason for extension is not given;- extension is not granted.
Cover Sheet	Include the Assignment Cover Sheet
Academic Integrity	You are expected to adhere to the Academic Integrity Policy . All referencing and citation should use APA Style (7 th Edition preferred). You do not need to submit the similarity report. Turnitin similarity reports will be generated by the lecturer and penalties imposed for similarity exceeding 15% .

	<p>You may be subject to additional penalties according to the Academic Integrity Policy.</p> <p>All student assessments submitted through Turnitin are examined for plagiarism in accordance with HELP University procedures, and the percentage of AI-generated content is determined.</p> <ol style="list-style-type: none"> Any cases in which Turnitin detects more than 15% AI-generated content in an assignment will be referred for review when employing AI tools is prohibited. Any cases in which Turnitin detects more than 30% AI-generated content in an assignment will be referred for review when AI tools may be used on a limited basis.
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Use of AI generative tools	<ol style="list-style-type: none"> Utilizing AI generative tools should be seen to augment creativity, problem-solving, and productivity while maintaining the integrity of the subject matter and upholding academic and professional standards. Students must demonstrate their own knowledge, skills, and understanding of the subject matter in their work. Where an assignment requires ChatGPT to be cited, you must reference all the content from Generative AI tools that you include. Failure to reference externally sourced, non-original work can result in Academic misconduct. Students are to apply APA Style for any AI content generated that is utilized and integrated into the final work. This acknowledgment is to be added to the footnote of the respective pages. <ul style="list-style-type: none"> To cite AI-generated work that you did not edit or revise: Name of AI Tool. (Year, Month Day you generated the content). Exact text of question or prompt you entered [AI-generated text/image/video, etc.]. Name of Company/Developer if different than name of AI tool. URL. Example: ChatGPT. (2023, June 3). "Steps of creating a running website using XAMPP?" [AI-generated text]. OpenAI. https://chat.openai.com. To cite AI-generated work that you edited or revised: Name of AI Tool & Your Last Name, First Initial. (Year, Month Day you generated the content). Exact text of question or prompt you entered [AI-
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	<p>generated text/image/video, etc.]. Name of Company/Developer if different than name of AI tool. URL.</p> <p>Example: ChatGPT & Chong, L.Y. (2023, July 19). How to setup cloud based CI/CD for a website deployment? [AI-generated text]. OpenAI. https://chat.openai.com/c/9bb6771b-209b-4c8c-ac79-6a8a9f39604a</p> <ul style="list-style-type: none">• General Format for In-Text Citations Examples: To make fluffy basmati rice, “rinse the rice twice in cold water” (ChatGPT, 2023)<p>Cloud-based CI/CD requires the following steps to be applied (ChatGPT & Chong, L.Y., 2023)</p><p>5. Any violation of this policy will result in appropriate academic sanctions, which may include penalizing your grades, failing the course, and other disciplinary actions.</p>
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ASSESSMENT 3: IT PROJECT PROTOTYPE (50%)

OBJECTIVE:

Evaluate the implementation of the IT project and the success in achieving the project objectives.

TASK:

Deliver an oral presentation of your IT project prototype, focusing on key aspects of your documentation and responding to questions from the examiner.

- **Duration:** 10 to 15 minutes for the presentation (individual), followed by a 5 to 10-minute Q&A session.
- **Visual Aids:** Use slides or other visual aids to enhance the presentation.
- **Preparation:** Be ready to discuss any part of your project in detail.

PART A: PRESENTATION CONTENT

Prepare slides to explain the following:

1. Fulfilment of Project Objectives (10 Marks)
 - Clearly state the objectives of your project.
 - Explain how each objective is relevant to the problem statement.
2. Fulfilment of Requirements (10 Marks)
 - Provide a comprehensive list of project requirements.
3. Design and Technical Implementation (20 Marks)
 - Describe the design methodology used in your project.
 - Explain the technical implementation with details on modules and tools.
 - Discuss any innovative features that differentiate your project from conventional solutions.
4. System Complexity, User Interface, and User Experience (20 Marks)
 - Demonstrate the complexity of the system.
 - Describe the user interface, ensuring it is logical and appealing.
5. Error-Free and Error Handling (10 Marks)
 - Demonstrate that the system is developed without errors.
 - Explain the error handling mechanisms implemented in the project.
6. Testing Techniques (10 Marks)
 - Outline the testing techniques used in your project.
 - Provide details of test cases, test data, and results.
 - Discuss the success of user acceptance testing, if applicable.

PART B: PRESENTATION AND Q&A

1. Presentation Skills (10 Marks)

- Organize your presentation with a clear flow of ideas.
- Exhibit confidence through posture and eye contact.
- Minimize vocal fillers and use purposeful pauses.

2. Problem-Solving Skills during Q&A (10 Marks)

- Anticipate potential questions from the examiner.
- Understand and accurately answer questions.
- Integrate knowledge and experience to address concerns.
- Respond respectfully and thoughtfully to all questions.

Marking Rubric:

Project Title:	
Student ID & Name:	
Supervisor:	
Marks:	

CRITERIA	LEVEL 0 (Not Attempted)	LEVEL 1 (Poor)	LEVEL 2 (Fair)	LEVEL 3 (Good)	LEVEL 4 (Very Good)	LEVEL 5 (Excellent)
Fulfillment of Project Objectives (10%)	Objectives are missing or not demonstrated in the prototype.	Prototype reflects unclear or irrelevant objectives that do not align with the problem statement.	Prototype addresses vague objectives with limited relevance; partial fulfillment of objectives is evident.	Prototype demonstrates clear alignment with most objectives, which are relevant and measurable.	Prototype fulfills clear, specific, relevant, and measurable objectives effectively.	Prototype exceeds expectations by achieving exceptionally clear, highly specific, relevant, and measurable objectives, demonstrating comprehensive alignment with the problem statement.

Fulfillment of Requirements (10%)	Requirements are missing or not implemented in the prototype.	Prototype demonstrates minimal or incomplete implementation of requirements, with significant gaps.	Prototype partially implements the requirements, but key aspects are missing or incomplete.	Prototype implements most of the requirements, with minor gaps or incomplete features.	Prototype implements all requirements comprehensively, with clear evidence of completeness and accuracy.	Prototype fully implements all requirements, exceeding expectations by ensuring thoroughness, precision, and consistency in meeting all specified needs.
Technical Implementation (20%)	No technical implementation attempted or no requirements fulfilled.	Basic implementation with only a few requirements partially met. The solution lacks essential functionality and is not working as intended.	Technical implementation meets some basic requirements, but several key features are missing or not functional. The solution is incomplete or unreliable.	Technical implementation meets most requirements with working features. The solution functions as intended, but may lack some advanced functionality or optimizations.	Technical implementation meets all requirements with fully functional features. The solution is stable and reliable, fulfilling all essential technical specifications.	Technical implementation exceeds the requirements with exceptional functionality. All requirements are met, and the solution demonstrates high stability, performance, and efficiency.
UI and UX (20%)	The prototype is unusable or does not provide	UI is extremely basic with little attention to	UI is functional but lacks polish. Basic usability	UI is clear and functional with a logical layout.	UI is well-designed with an intuitive and	UI is exceptionally designed with a

	any user experience considerations.	usability. Navigation and layout confusing, and the design lacks consistency. There are significant issues in user interaction.	principles are followed, but navigation somewhat confusing or not intuitive. The design inconsistent, with minimal consideration for user feedback.	Navigation is mostly intuitive, but there are some minor usability or design inconsistencies. The user experience is adequate, though it lacks depth or refinement.	consistent layout. Navigation is clear and efficient, and the user experience is smooth. The design demonstrates attention to detail. Users can interact effectively and comfortably with the interface.	seamless and intuitive user experience. Navigation is highly efficient and user-friendly. The interface is visually appealing, consistent, and polished. The overall user experience is smooth and enjoyable, reflecting a deep understanding of user needs and behaviors.
Error-Free and Error Handling (10%)	Missing/ Not presented	System has errors and lacks error handling.	Some errors present; basic error handling is in place.	Few errors; reasonable error handling implemented.	Minimal errors; robust error handling mechanisms.	Error-free system with exceptional error handling mechanisms, anticipating and managing all

						potential issues effectively.
Testing Techniques (10%)	Missing/ Not presented	Inadequate testing; lacks clear techniques and test cases.	Basic testing techniques with limited test cases and results.	Adequate testing techniques with detailed test cases and results.	Effective testing with comprehensive test cases and successful user acceptance (if applicable).	Outstanding testing techniques, with exhaustive test cases and exceptional analysis of test results and user acceptance testing.
Presentation Skills (10%)	Did not attend / Not Applicable	Poorly organized presentation with major communication issues.	Presentation lacks clarity and coherence; communication skills need improvement.	Generally organized presentation with some communication strengths.	Well-organized presentation with clear communication and engagement.	Masterful presentation skills with flawless organization and outstanding communication and engagement.
Problem-Solving Skills during Q&A (10%)	Did not attend / Not Applicable	Fails to address questions effectively; lacks understanding.	Struggles to respond to questions; limited problem-solving ability.	Responds to questions adequately with moderate problem-solving skills.	Addresses questions well with good understanding and problem-solving.	Expertly anticipates and responds to questions with comprehensive understanding

						and exceptional problem-solving skills.
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