



Full Stack Web Development Project Proposal (20%)

{ Name of Your Proposed App }

{ Your Name }

{ Admin No. }

{ Tutorial Grp }

Declaration of Originality

I am the originator of this work and I have appropriately acknowledged all other original sources used as my references for this work.

I understand that Plagiarism is the act of taking and using the whole or any part of another person's work, including work generated by AI, and presenting it as my own.

I understand that Plagiarism is an academic offence and if I am found to have committed or abetted the offence of plagiarism in relation to this submitted work, disciplinary action will be enforced.

Name and Signature of Student:

<<Replace this with Name and Signature of student>>

Declaration on the use of Generative AI tools for assignments

Describe how you have used Generative AI tools such as ChatGPT or Dall.E-2 in your assignment.

Show snapshots of the conversations with the AI tool (i.e., the prompts you used and the response you get from the AI tool).

How do you indicate the reference?

The content generated by AI tools are not retrievable except by the user who generated them, so they are considered non-recoverable sources. Although non-recoverable data or quotations in APA Style papers are usually cited as personal communications, with ChatGPT-generated text there is no person communicating. Quoting text from ChatGPT chat is therefore more like sharing the output of an algorithm, with a reference list entry and the corresponding in-text citation.

According to the official APA Style site, ChatGPT references should be cited as:

E.g. OpenAI. (2023). ChatGPT (Sep 25 version) [Large language model].

<https://chat.openai.com/chat>

Important Note:

- Do not copy answers produced by the AI tool in totality as it is considered as plagiarism.
- Do not rely on any information produced by the AI tool blindly. You should always verify the answer with other sources. Do not assume that these answers provided by the AI tool are correct.
- To achieve quality outputs from the AI tool, you should provide good prompt that is clear and specific. Be precise and provide context. Avoid asking open-ended questions.

Selected Use Case –

Highlight your selected use case below

Case Study Options (*The problem statement serves as a starting point; you can use it as is or adapt it based on your users' specific needs.*):

Campus Event Management System

- **Problem Statement:** Students often miss out on campus events due to scattered announcements, lack of reminders, and complicated registration processes, leading to low participation and poor event visibility.

Library Book Finder & Reservation System

- **Problem Statement:** Students waste time searching for books in the library without knowing their availability, resulting in frustration and missed opportunities to access learning resources.

Peer-to-Peer Learning / Tutor Finder

- **Problem Statement:** Students often need academic help but struggle to find peers with the right expertise, leading to missed learning opportunities and uneven access to support.

Internship & Job Portal for Students

- **Problem Statement:** Students often struggle to find internships and job opportunities relevant to their courses, as postings are scattered across multiple platforms with no campus-specific matching.

Problem Definition/Customer Needs (4%)

- Identify and list all key problems from the chosen scenario.
 - Step 1 – Understand the Scenario
 - What is the scenario about? What are the current issues?
 - Who are the main users? Are there any secondary users?
 - What is their main goal when using the website?
- Clearly define the customer needs and challenges.
 - Step 2 – Identify Key Problems or Pain Points
 - List at least 3 key problems faced by the users. Explain why it is a problem and who is affected.
 - Translate Problems into Customer Needs. (User Stories)
 - Summarize your findings.



Problem Definition/Customer Needs (4%)

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Project Objectives (3%)

- What is the purpose of the web application, and why is it needed?
 - What is the main goal of your web app?
 - What problem or needs does it solve?
 - What gap or issue currently exists?
- Who are the target users?
 - Who will use your application?
 - What are their needs or goals?
 - How will your app make their lives easier?
- What is the unique value proposition of your application?
 - What makes your app stand out?
 - What key feature or benefit differentiates it from existing solutions?
 - Why would users choose your app over others?



Project Objectives (3%)

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Proposed Features (3%)

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- Outline the planned functionalities in detail.

Feature Name	Description / Purpose	User Actions / What It Does	Expected Outcome / Display	Notes / Future Plans
(Example) User Login & Signup	Allow users to create accounts and log in.	Users can sign up with their email and password.	Users see a welcome message or dashboard after logging in.	Will later connect to a database for real login.
Event Listing

Wireframe (5%)

- Include wireframes, mockups, or sketches showing the intended interface and flow.
- Include **at least three main pages**.
- Note: If it is a prototype or wireframe, consider generating a shareable link so your tutor can test it. Make sure the link is accessible to them.



Wireframe (5%)

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(Example) Page 1 (Home Page)

Wireframe (5%)

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Wireframe (5%)

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Data Modeling (5%)

- Initial identification of entities in your application.
- Include **at least four** key data models and provide sample attributes for each model.
- **Note: Refer to the sample table in the next slide**

Data Modeling - Sample

Table: Event	Description: Represents campus events that users can view or register for.		
	Usage in App: Holds event details that will be displayed on the dashboard and allows users to register for events.		
Attribute	Type	Sample Value	Description
eventId	String	E1001	Unique identifier for each event, used to link with bookings and prevent duplicate records.
title	String	Campus Music Festival	Name of the event, displayed in listings, dashboards, and notifications.
description	String	An evening of live music performances by student bands.	Detailed information about the event, including purpose, schedule, and prerequisites.
date	Date	2026-02-20T18:00:00Z	Date and time of the event, used for sorting, filtering, and scheduling notifications.
location	String	Main Auditorium	Venue of the event, displayed to users and used for logistics planning.
createdBy	String	U1001	User ID of the person who created the event, used to track ownership and manage permissions.

Data Modeling

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	Usage in App:		
Attribute	Type	Sample Value	Description

Data Modeling

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The End