Project Guidelines

Project Marks Distribution

Criteria	Marks (100%)
Project Idea Submission	10%
Requirement Analysis Submission	10%
Project Progress Presentation	20%
Final project Submission (Demonstration + Viva)	40%
Final project Report	20%

Project Requirements

Project Proposal and requirement analysis

One proposal from each group on previously approved project idea with a cover page. This must include-

- A summary of the project and it's features.
- A GitHub repository link that will contain all the project materials and codes during the project development period.
- A requirement analysis of the project showing the details of the features and pages the project going to have.
- A Gantt Chart showing work timeline for the project must be included with the requirement analysis.

Database Design

1. DB Schema/Physical diagram/EER model

2. ER Diagram/Logical Diagram

Front End: Project UI

For the UI part, HTML+CSS, JavaScript, jQuery, Ajax etc can be used.

All the UI must be demonstrated during the project update presentation and final presentation.

Database Interaction

Example: PHP (Back-end Language), SQL, DB Query

SQL Query must include:

Insertion, deletion, Update of data and Join, Sub Query, Aggregate/Group by must be included

Final project Submission

In the final project demonstration, each group must present a working web application. The following things are expected as minimum requirement:

➢ A properly designed database reflecting the complete project idea. The database should have multiple tables and there must be implementation of relations in between tables.

➢ Project must contain a login/sign-up feature.

➢ There must be different landing page for a user and for a non-user.

➢ The project must be designed in such a way that data insertion, data deletion, data retrieval and data update is implemented.

Final Project Report

Final project report must contain the following things:

➢ Introduction

Description of the project.

➢ Background research/Motivations

A brief description of existing solutions similar to the project. If the project is trying to implement something in an alternative way, then mention how it is different from the existing solutions. Also, the following questions should be answered in this section-

Why this project? How this will help people or solve a problem? Are you trying to solve a problem from your experience?

Write down what motivated you to take on this project.

➢ Resources/technologies

Describe the tech stacks that are used in the project and mention if any external resources are used to learn and implement these tech stacks.

➢ Project Design

This section will include description of the user types, their roles and features. Also include ER Diagram, Relational Model, Project workflow and explain them.

➢ Sitemap

Include an overview of the web application and show how users traverse between the pages.

➢ Snapshots

Include snapshots demonstrating the features and use of the project in this section.

➢ Conclusion & future work

Conclude the project's success, findings, significance and impacts in this section. Also include how the web application can be improved or made compact and more polished.

➤ Contributions

        Mention each members role and contribution to the project during the development of this project.

Final Code Base & Report Submission

Each group have to submit the following details as final project submission:

- Attach the full code-base.
- Exported SQL database file.
- Project Report in PDF format.
- Link to the GitHub repository.
- Project Presentation File (If there is any)