Collaborative Project

Members:

Karan - Team Leader

Jalan - Front-End Developer

Tristan - Front-End Designer

Amrinder Singh - Back-End Developer

Aswathy - Back-End Designer

Project Overview & Team Responsibilities

The project focuses on building a user-friendly and accessible knowledge resource platform that allows users to browse categories, search topics, and view PDF resources, while restricting administrative access to authorized faculty only.

Front-End Designer – Tristan

Tristan will begin the project by designing the front-end user interface. The primary focus will be the home page, which will display a list of categories along with a search feature allowing users to search for specific topics. Each category will link to a page containing related topics, and selecting a topic will open the corresponding PDF resource. The design must remain consistent across all pages and follow accessibility best practices to ensure usability for users with disabilities. Emphasis will be placed on clarity, readability, intuitive navigation, and inclusive design.

Front-End Developer – Jalan

Jalan will collaborate closely with Tristan to ensure that the approved UI designs are implemented effectively. Feedback will be shared between design and development to determine what works well and what needs refinement. Jalan will develop the front-end using HTML, CSS, JavaScript, and PHP. In collaboration with the back-end developer, Jalan will integrate front-end and back-end systems so that database content uploaded via the admin panel is displayed correctly on the knowledge resource pages. Users will not have access to the

admin page.

Back-End Designer – Aswathy

Aswathy will design the user interface for the back-end admin panel. The design will maintain consistency with the front-end look and feel while remaining clean, sleek, and user-friendly. The admin interface will include two main tabs: Categories and PDF. The Categories tab will display a list of existing categories and provide an option to add new categories. The PDF tab will allow faculty to add topics, select a category from a dropdown, upload PDF files, and submit the content.

Back-End Developer – Amrinder

Amrinder will design and implement the database using MySQL. The database structure will include a Category table with category_id and name, a PDF table with pdf_id, category, name, and file, and a Meta table with meta_id, pdf_id, and name._Amrinder will also develop the back-end admin panel usingHTML, CSS, JavaScript, PHP, and Sammy.js. The panel will feature two tabs: Categories and PDF. Faculty users will be able to add categories, upload PDFs, assign topics to categories, and submit data. Amrinder will ensure that the database is fully connected to the back-end logic.