

STUDENT NAME: VAISHAL A S

SEAT NUMBER: 268

PROJECT ID: 28

PROJECT NAME: MOU DATABASE MAINTENANCE

1. STACK:

MEVN STACK:

Front - end	Vue Js
Back - end	Node Js , Express Js
Data Base	MongoDB

2. Problem Statement:

Develop a web-based portal to track activities under each Memorandum of Understanding (MOU). This will provide a central hub for monitoring progress, fostering collaboration, and improving transparency for all involved. By streamlining data collection and reporting, the portal aims to enhance decision-making and ensure successful MOU implementation.

3. System Description:

Mou is a web-based application designed to streamline the management of Memorandum of Understanding(MOU) which is an agreement signed by many companies and private institutions for many activities such as Placements, Internship, Workshop, etc which can be accessed by the faculty members within an academic institution. It integrates with the database of the institution that contains all the (MOU) records to automate workflows and ensure timely availability records and current and live (MOU).

4. System Features:

a. User Authentication and Authorization:

- Implement secure user authentication mechanisms (e.g., OAuth) to ensure only authorized personnel can access the portal.
- Define user roles(admin,user) and permissions to control access levels based on the user's responsibilities within the MOU.

b. Dashboard and Overview:

- Develop a dashboard providing an overview of all active MOUs, including key metrics such as upcoming deadlines, new MOUs, etc.
- Includes filter option and category option so that users can easily search records

c. MOU Management:

- users can create new MOUs, specifying details such as objectives, participating parties, start/end dates, and milestones.
- Allow admins only for the editing and updating of existing MOUs as needed, including the ability to add or remove participating parties or modify objectives.

d. Activity Tracking:

- We provide a structured format for entering and tracking activities/tasks associated with each MOU.
- If a MOU expires it will be displayed in the expired column and will be available for 1 month for renewing it.
- Option to add Pdf drive link to database for future use.

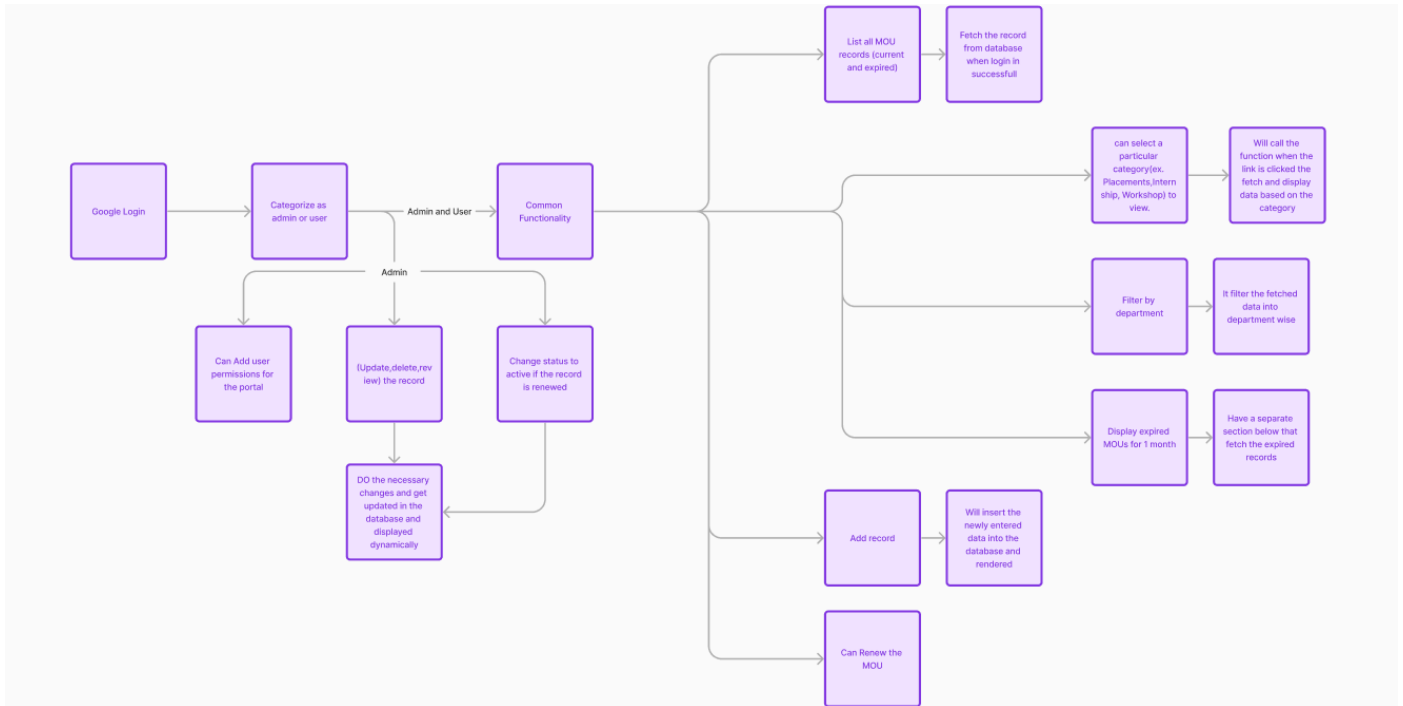
e. Admin Dashboard:

- Manage faculty user accounts and access rights.
- Will Get all the functionality that the faculty gets and additionally they can even edit or delete a record from the database.
- If suppose any MOU has been renewed the admin users alone will be able to change the expire date to the new

expire date.

5. Workflow and Management

a. System Workflow:



- Admin mapped to a certain faculty Emails a specification for adding the faculty members and reviewing records every day(making changes, updates the renewed record).
- Faculty and Admin can add New MOU to the database.
- Admin receives an email if a MOU has been added by the faculty.
- Faculty and Admin receives an Email - Once a MOU expires or is deleted.
- Admin can only make changes to the records in the database.
- All the Data will be displayed in the table in the web application.
- When the faculty and admin login to the portal first all the records will be

displayed. If the user wants a record of a particular category it will be listed in the side they can click to get the record of that particular category.

- Both the faculty and admin can search records based on the departments.

6. System Users:

a. Faculty Members:

- Upload materials, receive notifications.

b. Administrators:

- Manage users, map faculty to subjects, define requirements, verify materials, generate wiki code, access reports.

7. Assumptions and Dependencies:

- Integrating with the google for google sign in option(generating API and credentials for client Id and google Sign In).
- Integration with mongodb for storing data and retrieving data.