

BANNARI AMMAN INSTITUTE OF TECHNOLOGY

An Autonomous Institution Affiliated to Anna University - Chennai, Accredited by NAAC with A+ Grade

Sathyamangalam - 638401 Erode District, Tamil Nadu, India

SOFTWARE REQUIREMENT SPECIFICATION

STUDENT NAME	BALAKRISHNAN T
ROLL NO	7376221CS122
SEAT NO	228
PROJECT ID	28
PROJECT TITLE	MoU DATABASE MAINTENANCE

Problem Statement:

1. To develop a web portal to track activities under each Memorandum of Understanding (MOU).
 - The portal should list the current MoUs and recently expired ones.
 - To filter the MoU base on the following condition:
 1. Department wise
 2. Company/Organisation wise
 3. Outcome wise(like placement, internship, etc.,)
 - Track activities, updates, deadlines, status (e.g., pending, in progress, completed) for each MoU.

- Additionally, create a form for uploading MoUs with all required details.

Stages of the Development:

Phase	Status	Notes
Stage 1	Approved ▾	Planning and requirement Gathering
Stage 2	In progress ▾	Design and UI/UX prototyping
Stage 3	Not started ▾	Database Design and implementation
Stage 4	Not started ▾	Backend Development
Stage 5	Not started ▾	Integration and testing
Stage 6	Not started ▾	Deployment

Technical Components- Python Stack:

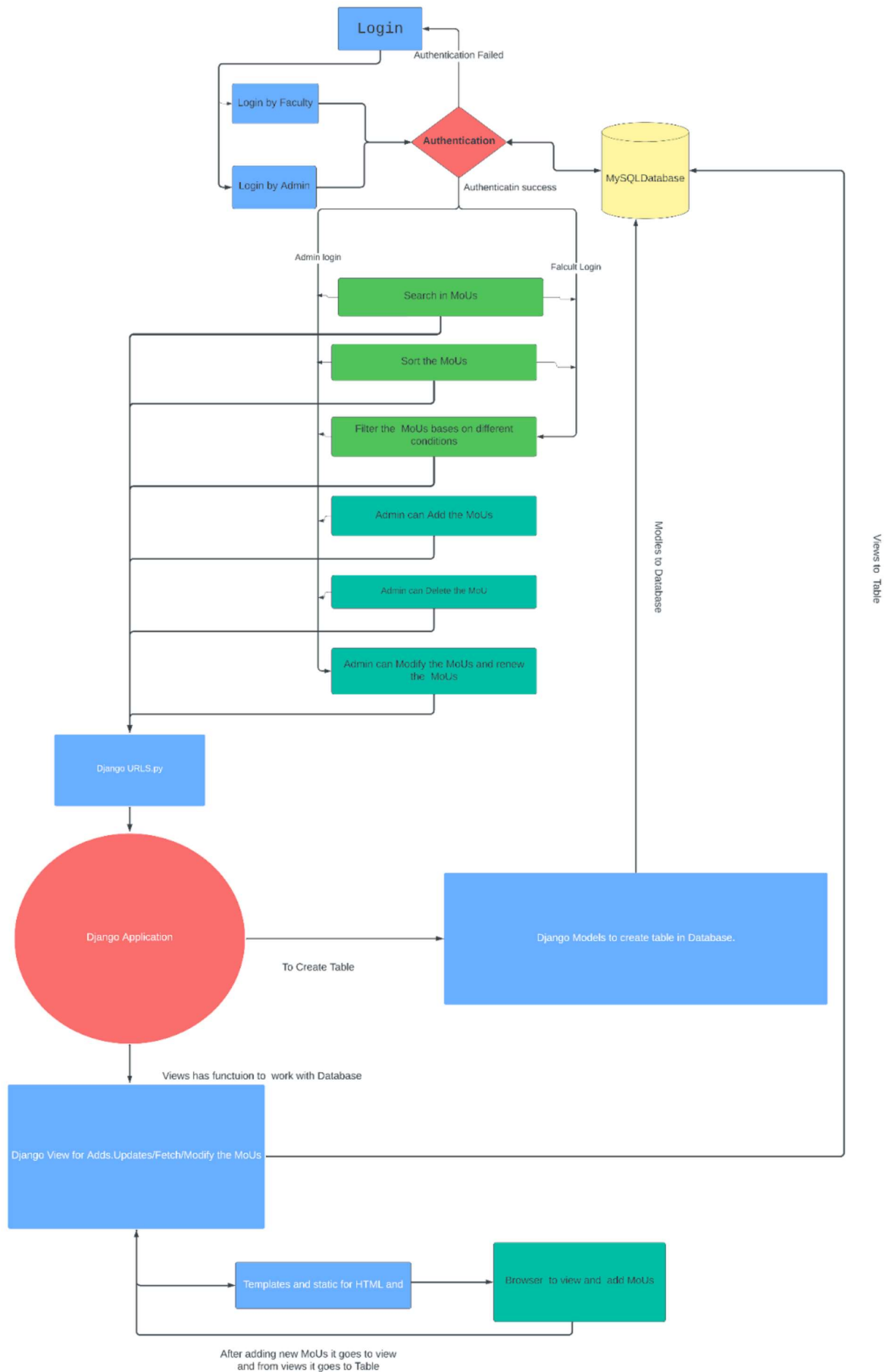
Components	Tech Stack
Front End	HTML, CSS, Javascript
Back End	Django
Database	MySQL

Control Flow of the Project:

1. Login and user roles(faculty and Admin):
 - Faculty users have limited permissions, including sorting, searching and filtering MoUs.

- Admin users have extended permissions, allowing them to add, update, delete, and modify the MoUs in addition to faculty actions
2. MoU display and expiry handling:
 - The webportal lists all the MoUs that are not expired.
 - The expired MoUs are also displayed temporarily for a few days to allow for renewal.
 - Renewed expired MoUs return to the active list, while unexpired ones are not displayed after a period of time.
 3. MoU Upload and Details:
 - Users can upload MoU files to the portal, providing details such as title, description, start date, end date, department, company/organization, outcome, etc in webportal.
 - These details play an important role in sorting, searching, filtering and categorizing MoU within the portal.
 4. Sorting and Filtering:
 - The portal's main functionalities is to sort MoUs based on various criteria, such as department, company/organization, outcome.
 - Users can apply filters to choose specific parameters, enhancing search and navigation capabilities.
 5. MoU Reports and Tracking:
 - Each MoU has its own report, providing informations about tracking activities, deadlines, and status of that MoU
 - Reports will help user to monitor the progress of MoUs, track deadlines, and assess the current status of MoUs

Flowchart:



Backend Design:

1. Entities:

- The user entities are used by both faculty and admin members.
- The MoU entities will have all information about the MoU

2. Attributes:

- The user have the attributes as userId, username, email, and role(faculty or admin)
- MoU attributes will have the attributes as MoU title, description, start and end date, outcome and department.

Conclusion:

Development of the MoU web portal is aimed at providing a platform for efficiently tracking and managing Memorandums of Understanding. With features like filtering based on departments, companies, and outcomes, along with detailed activity tracking and user role differentiation, the portal ensures transparency, collaboration, and effective decision-making.