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 for TAC Portal

Name	ATHISH A S
Roll no	7376222AL115
Seat no	148
Project ID	28
Problem Statement	MoU Database Maintenance

Technical Components

Component	Tech Stack
Backend	**Django(python)**
Frontend	**Html,Css,Javascript**
Database	**Postgresql**
API	**RESTful services**

Introduction

1. Purpose:

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.**

2. Functional Requirements:

- **Admin Dashboard:**
    - Admins can view a list of all MOU.
    - Mou's can be filtered by category (Industry, College, Department (ECE, IT)).
    - Admins can view details of each Mou.
    - Admins can Add, Edit and delete and renew Mou's.
- **MOU Listing:**
    - Admins should have access to a list of all MOUs with details such as title, category, start date, end date, and status (active, expired, renewed).
    - The listing should support pagination or scrolling for easy navigation through multiple MOUs.
- **MOU Details:**
    - Admins should be able to view detailed information for each MOU, including parties involved, objectives, terms, and any associated documents.
- **MOU Management:**
    - Add MOU: Admins should have the ability to add a new MOU by providing relevant details such as title, category, start date, end date, parties involved, objectives, and terms.

- Edit MOU: Admins should be able to edit existing MOUs to update information such as dates, objectives, or terms.
- Delete MOU: Admins should have the option to delete MOUs that are no longer valid or relevant.

3.Non-Functional Requirements:

- **Performance**:

  The system must respond to user actions within 2 seconds to ensure efficient usability and must handle a concurrent user load of at least 100 users without significant performance degradation.

- **Security**:

  User data must be encrypted during transmission and storage, and access to sensitive functionalities should be restricted to authorized admin users through secure authentication mechanisms.

- **Usability**:

  The user interface should be intuitive and user-friendly, with clear and concise error messages provided to guide users in case of input errors or system failures.

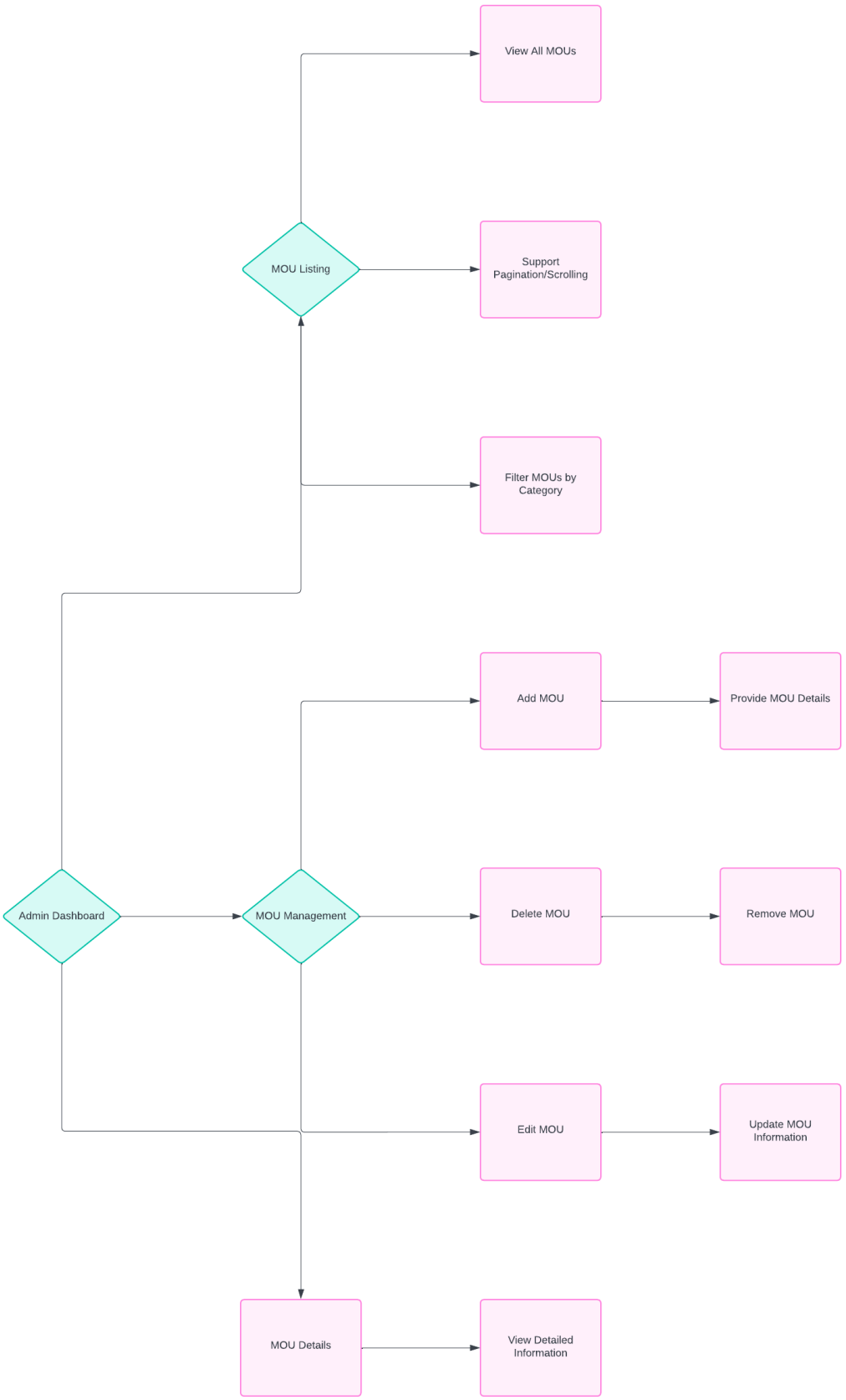
- **Reliability**:

  The system should be available 24/7 with minimal downtime and should have a backup and recovery mechanism in place to prevent data loss in case of system failures or crashes.

- **Scalability**:

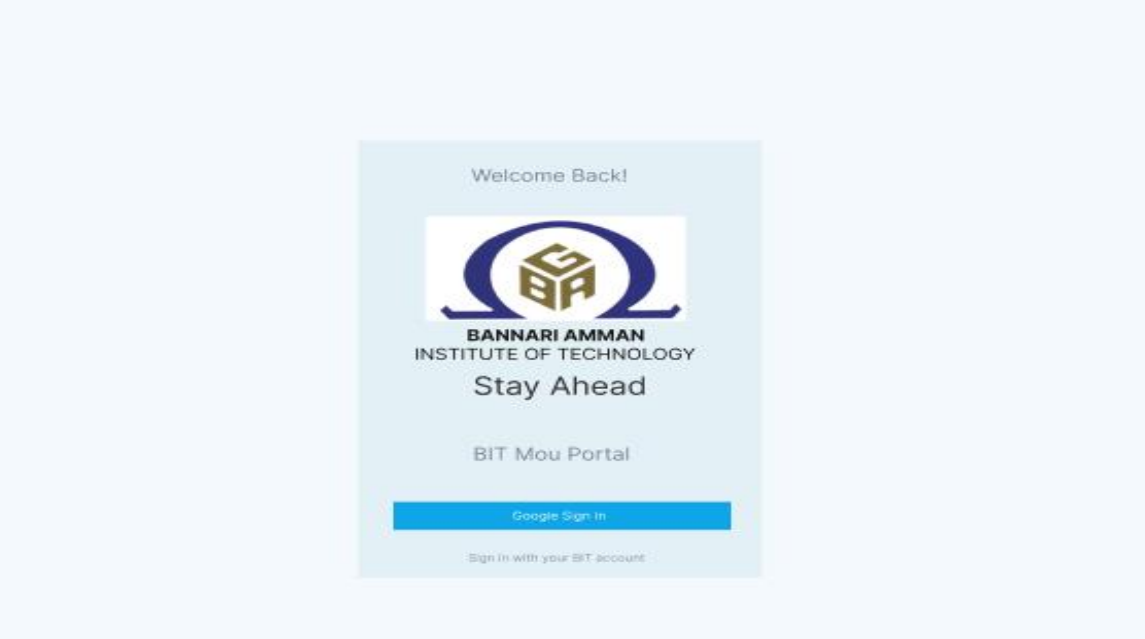
  The system should be designed to accommodate an increasing number of users and data volume over time, and it should be scalable to support additional features and functionalities as per future requirements.

FLOWCHART:

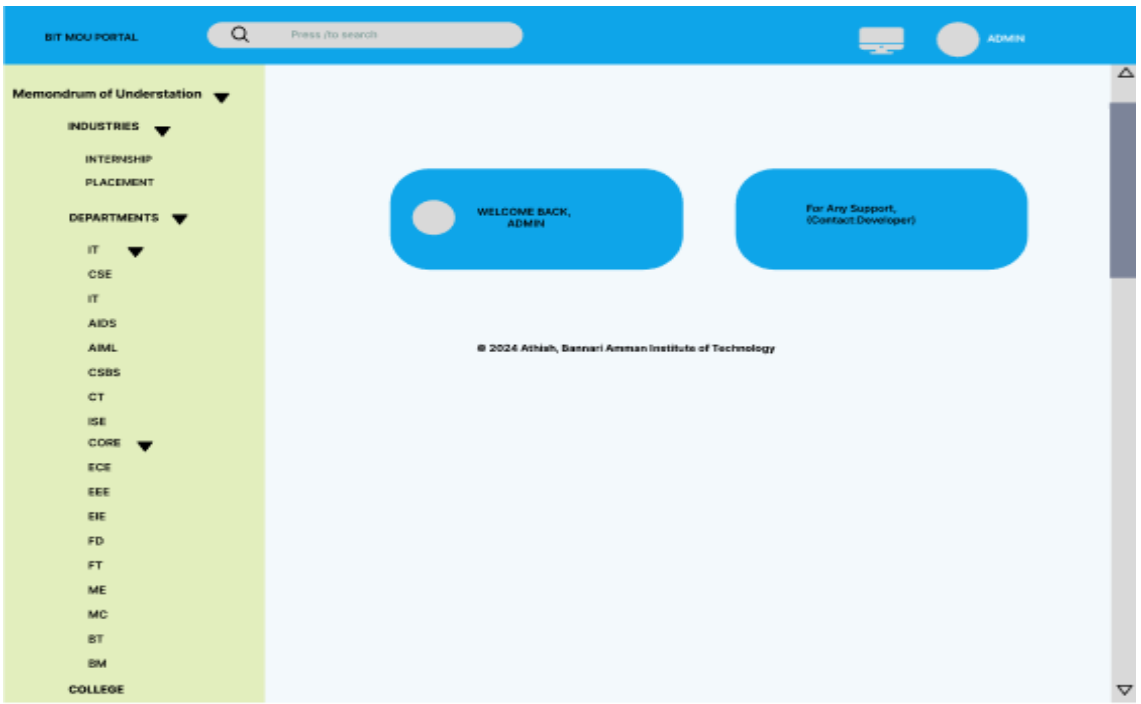

View All MOUs
MOU Listing
Support Pagination/Scrolling
Filter MOUs by Category
Add MOU
Provide MOU Details
Admin Dashboard
MOU Management
Delete MOU
Remove MOU
Edit MOU
Update MOU Information
MOU Details
View Detailed Information

PROTOTYPE OF THE PROJECT:

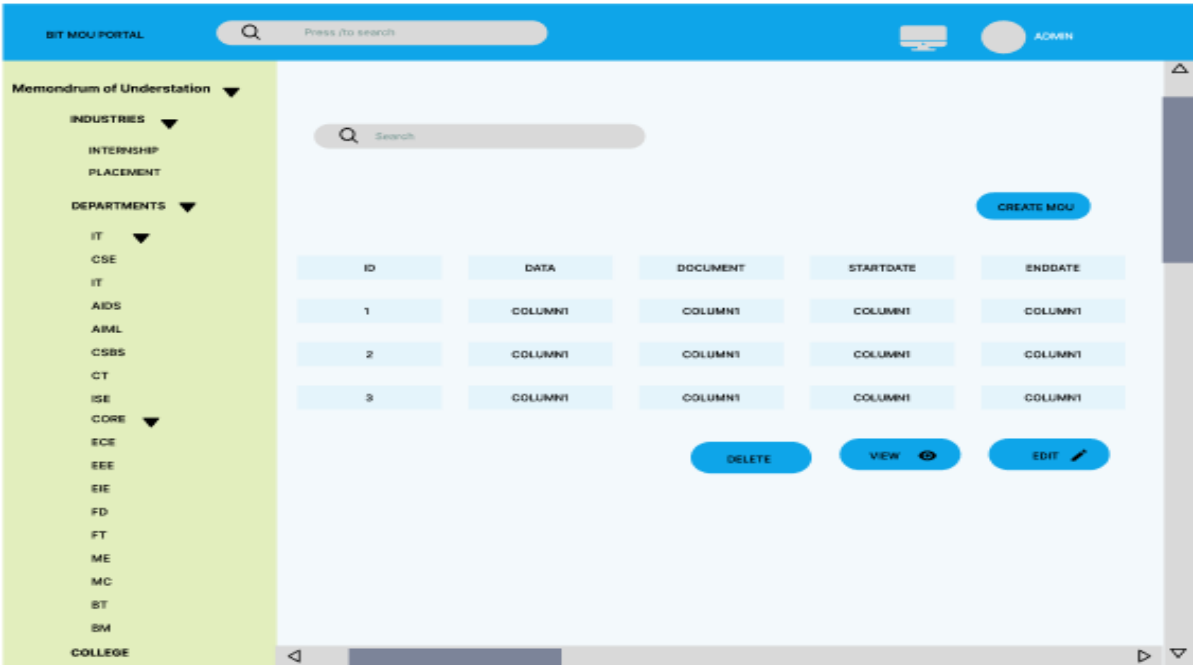
1. LOGIN PAGE



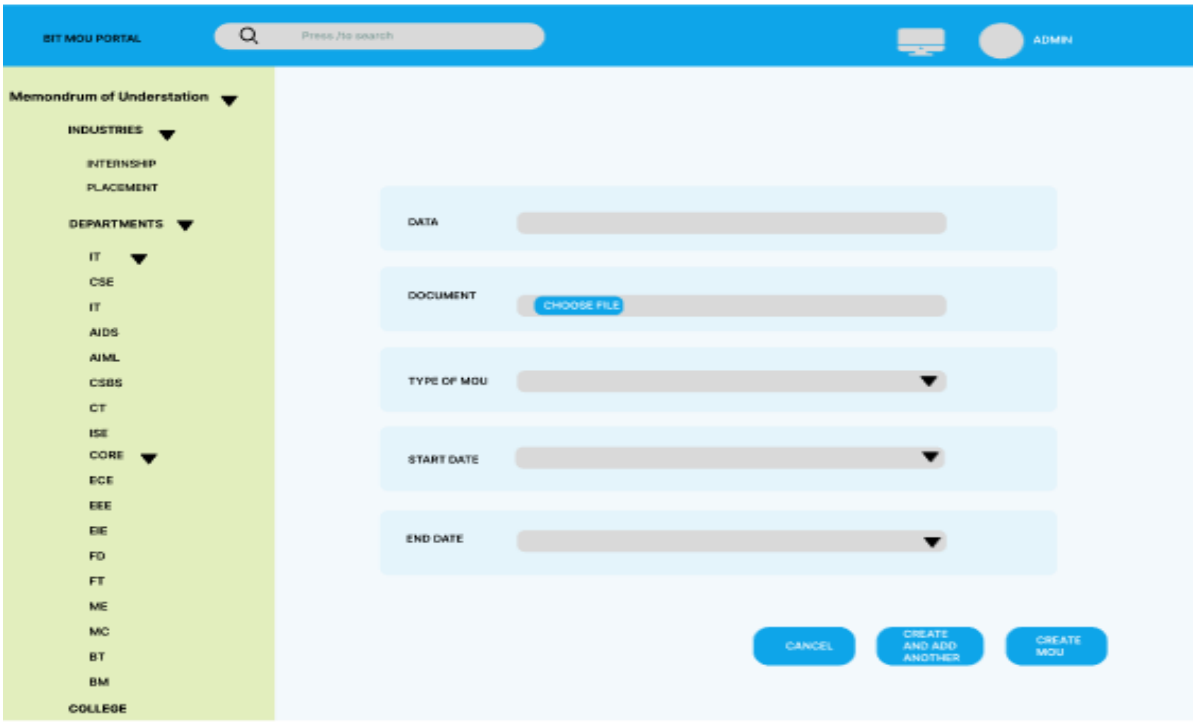
2. ADMIN PAGE



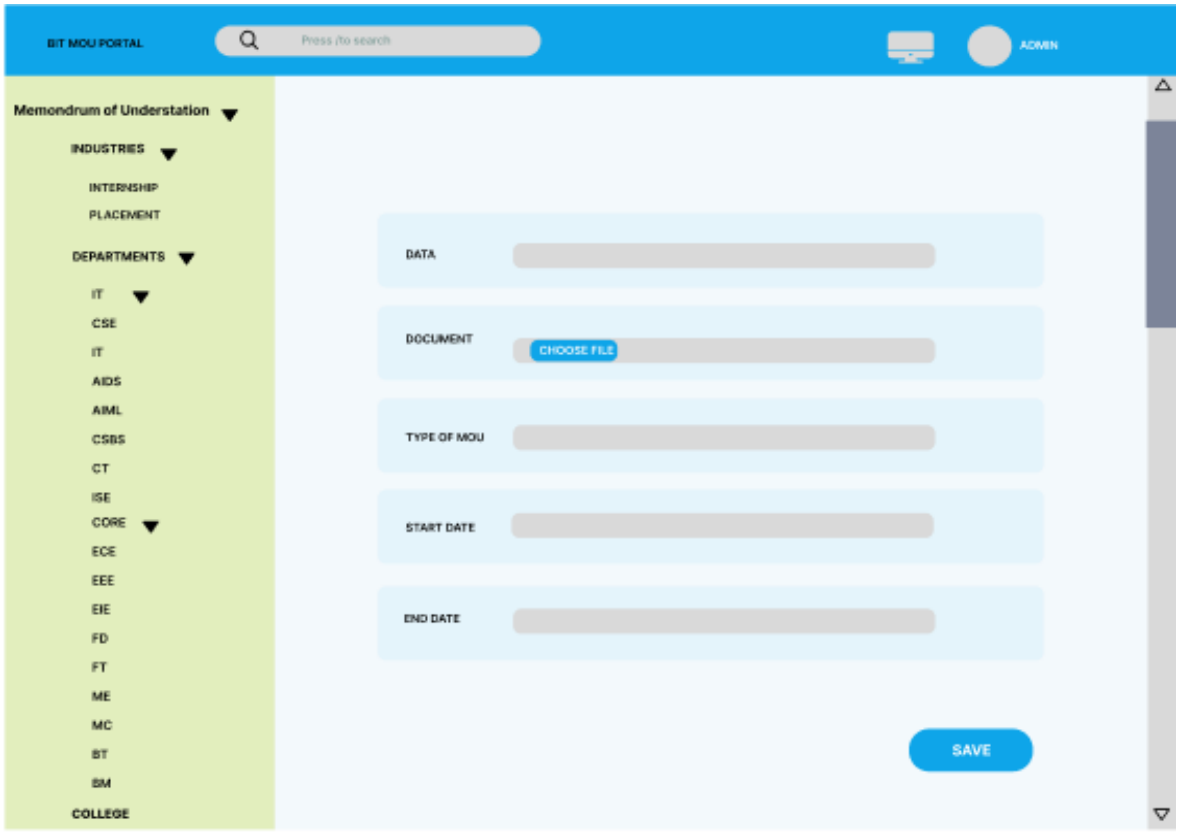
3. DATA PAGE



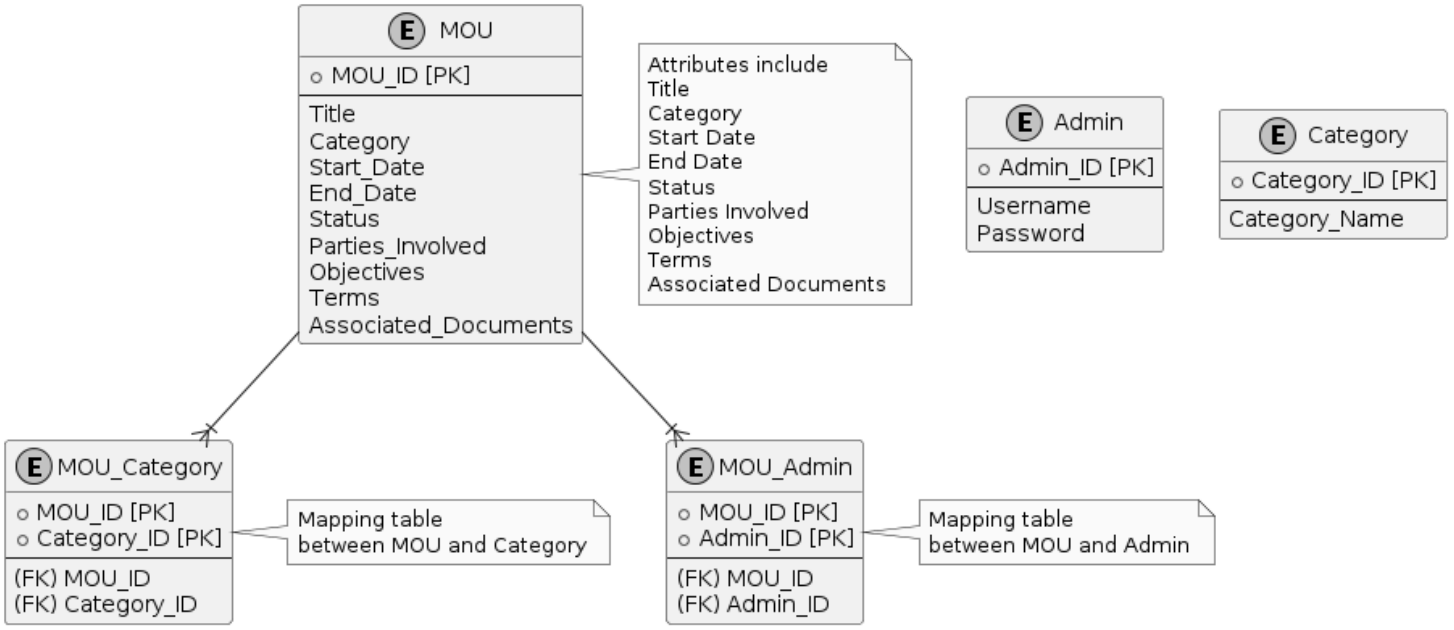
4. MOU CREATION



5. EDIT AND SAVE



ER DIAGRAM:


MOU
MOU_ID [PK]
Title
Category
Start_Date
End_Date
Status
Parties_Involved
Objectives
Terms
Associated_Documents
Attributes include
Title
Category
Start Date
End Date
Status
Parties Involved
Objectives
Terms
Associated Documents
Admin
Admin_ID [PK]
Username
Password
Category
Category_ID [PK]
Category_Name
MOU_Category
MOU_ID [PK]
Category_ID [PK]
(FK) MOU_ID
(FK) Category_ID
Mapping table
between MOU and Category
MOU_Admin
MOU_ID [PK]
Admin_ID [PK]
(FK) MOU_ID
(FK) Admin_ID
Mapping table
between MOU and Admin