

Project Overview

The **GitHub-Like Learning Management System (LMS)** is an innovative online platform designed to streamline the management of educational content, user roles, and collaborative learning experiences. Inspired by GitHub's structured repository-based workflow, this LMS enables students, instructors, and administrators to interact efficiently in a structured digital learning environment. The system incorporates role-based permissions and organized educational resources such as lectures, videos, and notes.

Project Objectives

The primary goal of this LMS is to provide an intuitive and scalable solution for online education by offering:

- A structured approach to **content management** with lectures, videos, and notes.
- **Role-based access control**, ensuring different levels of permissions for users.
- A centralized platform for **faculty, moderators, and administrators** to manage courses and users effectively.
- **Request-based user management** for handling appointments and content approvals.
- **Efficient organization of departments, courses, and faculties** under a structured hierarchy.

End Users

The system is designed to accommodate multiple categories of users:

1. **Regular Users (Students)** – Can access course content, submit requests, and interact with the available resources.
2. **Faculty (Instructors)** – Responsible for managing course materials, lectures, videos, and notes.
3. **Moderators** – Review and approve faculty and content requests to maintain platform quality.
4. **Admins** – Manage course creation, faculty approvals, and oversee the overall functionality of the LMS.
5. **Masters (Super Admins)** – Oversee the entire system, appoint administrators, and manage department structures.

System Functionality

1. User Management

- Users are assigned roles (Regular User, Faculty, Moderator, Admin, Master).
- Users can request access to specific functionalities.
- Moderators and admins manage approval workflows.

2. Course and Content Management

- Courses are created and assigned to faculties.
- Faculties can upload lectures, videos, and notes.
- Students can access and interact with available course materials.

3. Request Handling System

- *Users can submit different types of requests (content approval, appointment requests, etc.).*
- *Moderators and administrators manage and process these requests.*

4. Role-Based Access Control

- Regular Users can only view course materials.
- Faculty members can create and manage content.
- Moderators approve/reject requests related to faculty and content.
- Admins oversee courses and faculty appointments.
- Masters (Super Admins) manage high-level operations such as department structuring.

Conclusion

The **GitHub-Like LMS** is a structured and scalable approach to online education, offering seamless interaction among students, instructors, and administrators. By implementing **hierarchical user roles, structured content management, and efficient request-handling**, this system provides a robust digital learning experience that ensures academic integrity and accessibility for all users.