

LearnHub: Application Flow

Application Flow Overview

LearnHub is an Online Learning Platform (OLP) that supports three main user roles: Student, Teacher, and Admin. Each role has specific responsibilities and permissions. The overall flow of the application is designed around course creation, enrollment, learning progress tracking, and platform administration.

1. User Roles in LearnHub

The system provides role-based access control where different dashboards and features are displayed based on the logged-in user type.

2. Teacher Flow

A Teacher is responsible for managing course content and delivering learning material to students.

Teacher can perform the following operations:

- Add new courses for students.
- Add sections/modules to an existing course.
- Delete a course if no students are enrolled in it or if required for other reasons.
- View course details and updates from their dashboard.

3. Student Flow

A Student is the primary user of the platform and interacts with courses and learning resources.

Student can perform the following operations:

- Browse and search courses by name, category, difficulty, etc.
- Enroll in one or multiple courses.
- For paid courses, complete payment/purchase before starting the course.

- Start learning and continue the course from where they previously stopped (progress tracking).
- Complete the course modules and attempt the final assessment (if available).
- Download the course completion certificate after successfully completing the course.

4. Admin Flow

The Admin manages and monitors the complete LearnHub platform.

Admin can perform the following operations:

- Manage and alter all courses available in the application.
- Monitor all types of users (students and teachers).
- Track and record student enrollments in each course.
- Maintain platform integrity and handle system-level issues.

5. Overall Application Workflow (High-Level)

The high-level flow of the LearnHub application can be summarized as follows:

- 1) User registers and logs in based on role (Student/Teacher/Admin).
- 2) Teacher creates courses and uploads content/sections.
- 3) Student browses courses, enrolls, and begins learning.
- 4) Student progress is tracked and stored in the database.
- 5) After completion, the certificate is generated and made available for download.
- 6) Admin oversees users, courses, and enrollment records for platform monitoring.