

# 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.