

# Project Title : LearnHub: Your Centre for Skill Enhancement

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## Team Members:

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## Introduction

LearnHub is an education-based web platform developed as a mini project to facilitate students in learning programming languages and technical courses through a centralized system. This project is tailored for skill centers where students can enroll, access, and track progress through interactive learning modules and coding tutorials.

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## Project Overview

- **Objective:** To build an online learning system for students of a skill center to access and learn courses like Python, Java, HTML, etc.
  - **Features:**
    - Course browsing and enrollment
    - Interactive UI for learning modules
    - Student login and course progress tracking
    - Responsive design
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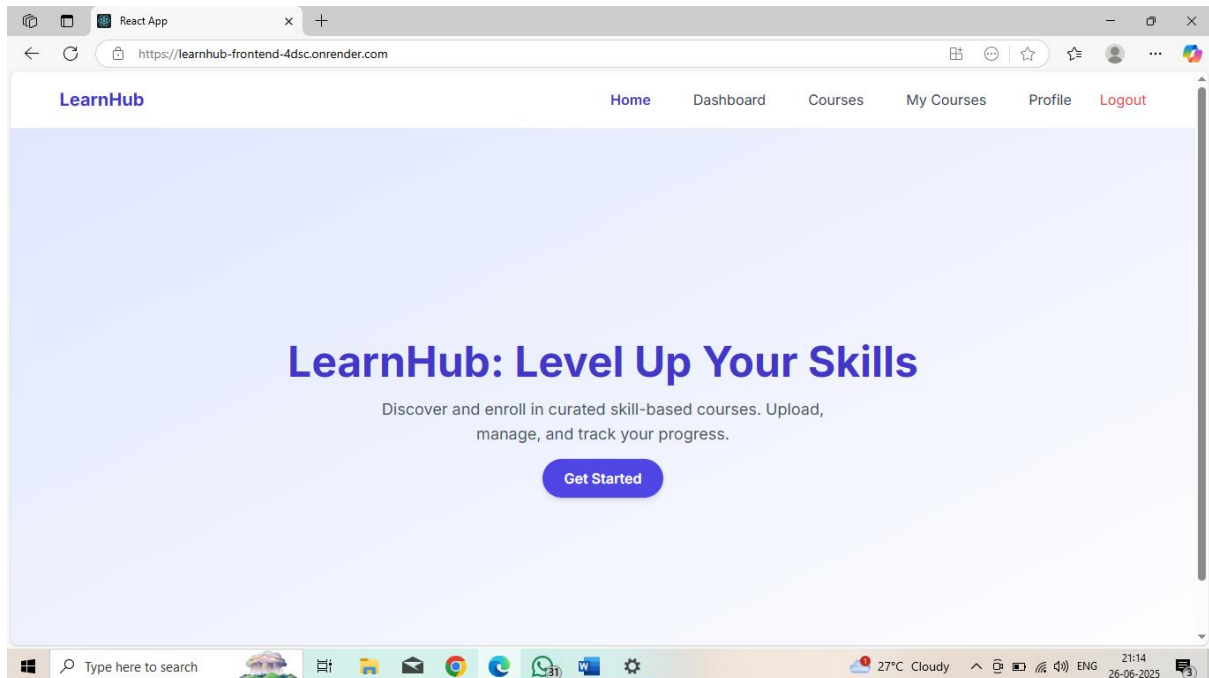
## Technology Stack

- **Frontend:** React.js
  - **Backend:** Node.js / Express.js (if used)
  - **Database:** MongoDB / Firebase (if used)
  - **Hosting:** Render (Link: <https://learnhub-frontend-4dsc.onrender.com/>)
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## Images with Explanations

Paste each UI screenshot and write a description below. Here's a sample format

### Image 1: Home Page



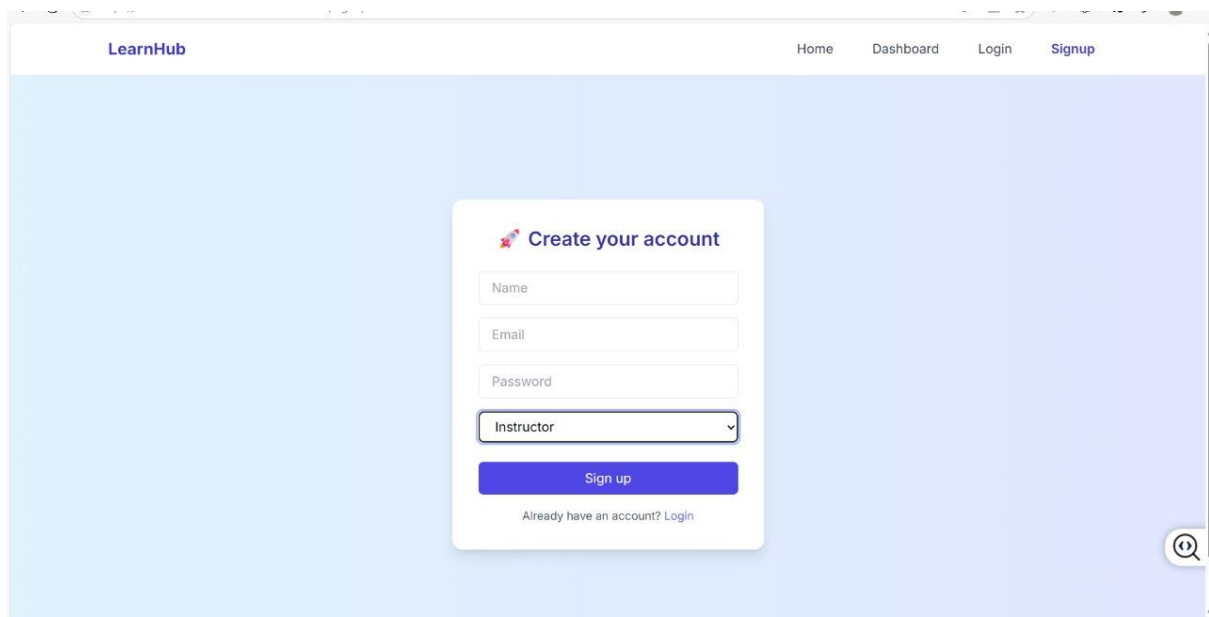
This image displays the Home Page of the LearnHub educational platform. It is designed to welcome users and introduce them to the platform's purpose.

- The header includes a navigation menu with the following links:
  - Home (highlighted to show it's the current page)
  - Dashboard
  - Courses
  - My Courses
  - Profile
  - Logout (in red to clearly indicate its function)
- The main content section showcases the platform's tagline and call to action:
  - Heading: "LearnHub: Level Up Your Skills" – emphasizing the platform's goal of helping users improve through skill-based learning.
  - Subtext: "Discover and enroll in curated skill-based courses. Upload, manage, and track your progress." – briefly explaining what users can do on the platform.
  - Button: A prominently displayed "Get Started" button in purple invites users to begin exploring and enrolling in courses.
- The color scheme uses a calming light blue background with bold purple elements, maintaining a professional yet approachable design aesthetic.

This starting point page serves as the entry point for users, offering them an overview of the platform and an easy to explore educational content.

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**Image 2: Sign up Page**

A screenshot of the LearnHub Sign up page. The page has a light blue background. At the top, there is a navigation bar with the LearnHub logo on the left and links for Home, Dashboard, Login, and Signup on the right. In the center of the page, there is a white card titled "Create your account" with a rocket icon. The card contains four input fields: Name, Email, Password, and a Role dropdown menu currently set to "Instructor". Below these fields is a blue "Sign up" button. At the bottom of the card, there is a link that says "Already have an account? Login". A small magnifying glass icon is visible in the bottom right corner of the page.

**Description:**

**🖼️ Image Description – Signup Page (LearnHub)**

- **Title/Header:**  
At the center of the page, there is a card with the title "🚀 Create your account" indicating that this is the registration form for new users.
- **Input Fields:**  
The form consists of the following input fields:
  1. Name – Text input for the user's full name.
  2. Email – Input for the user's email address.
  3. Password – Input to securely set a password.
  4. Role Dropdown – A dropdown selection box that allows the user to choose between roles, such as:
    - Instructor
    - (Presumably the other option is Student, though not visible in the image)

- **Button:**  
A "Sign up" button in a purple shade is placed below the form for submitting the registration details.
- **Link:**  
Below the signup button, a small text reads:  
*"Already have an account? Login"*  
This is a navigation link that likely redirects users to the login page if they already have an account.
- **Navigation Bar (Top):**
  - The header of the page includes:
    - Website title/logo: LearnHub
    - Menu options: Home, Dashboard, Login, and Signup
- **Background:**  
The background is a soft gradient of light blue shades, giving a clean and user-friendly aesthetic.

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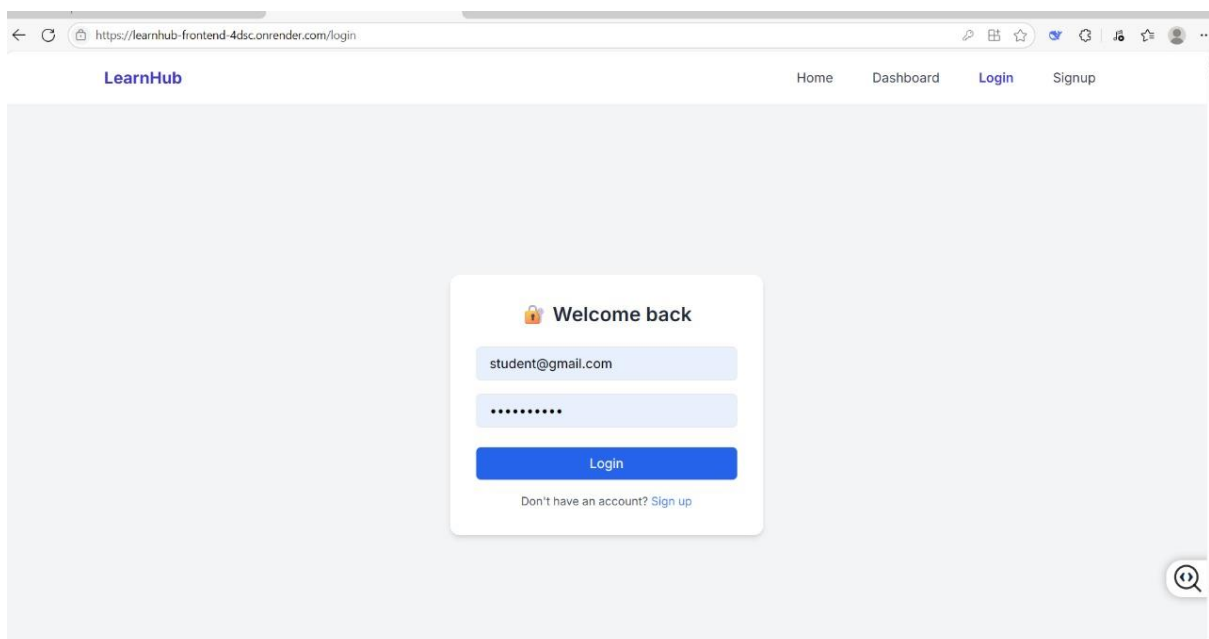
## Functionality Overview

This page enables new users to:

- Register as either a **Student** or **Instructor**
- Enter credentials securely
- Navigate easily to the login page if they already have an account


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## Image 3: Login Page



## Description:

### Image Description – Login Page (LearnHub)

- **Header Section:**
    - LearnHub logo/title is placed at the top-left.
    - Navigation menu includes:
      - Home
      - Dashboard
      - Login (currently highlighted)
      - Signup
  - **Login Form:**
    - Centered on the page within a white card with rounded corners.
    - Title: " Welcome back" – indicating this is a returning user login interface.
  - **Input Fields:**
    1. Email Field: Pre-filled with the text: student@gmail.com
    2. Password Field: Contains hidden characters (dots), representing the password input.
  - **Action Button:**
    - A solid blue "Login" button is displayed below the fields.
  - **Additional Navigation:**
    - Below the login button, a sentence reads:

"Don't have an account? Sign up"

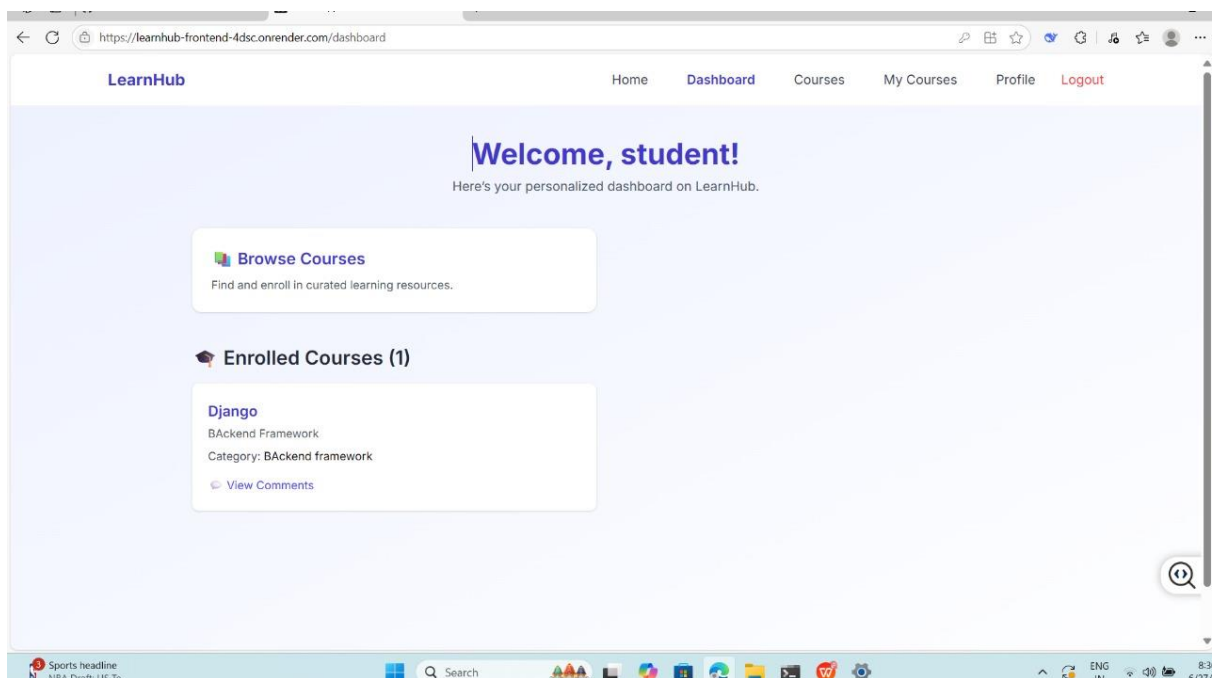
      - The Sign up text is hyperlinked, allowing new users to register.
  - **Background:**
    - The background is light grey, giving a clean, modern UI look with focus on the login form.
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### Functionality Overview

This page enables existing users (students or instructors) to:


- Log in securely with email and password.
  - Get redirected to their dashboard upon successful authentication.
  - Navigate easily to the signup page if they are new users.
-

Image 4: Student Dashboard Page



## Description:

### Image Description – Student Dashboard (LearnHub)

- **Header Section:**
  - Top navigation bar includes:
    - **Home**
    - **Dashboard** (highlighted)
    - **Courses**
    - **My Courses**
    - **Profile**
    - **Logout** (in red, indicating an active session)
- **Welcome Message:**
  - The top center of the screen displays a friendly greeting:
    - **“Welcome, student!”**
    - Followed by a subheading: *“Here's your personalized dashboard on LearnHub.”*
- **Main Dashboard Cards:**
  1.  **Browse Courses**
    - A clickable card encouraging users to explore and enroll in more learning resources.

- Text: *"Find and enroll in curated learning resources."*

## 2. Enrolled Courses (1)

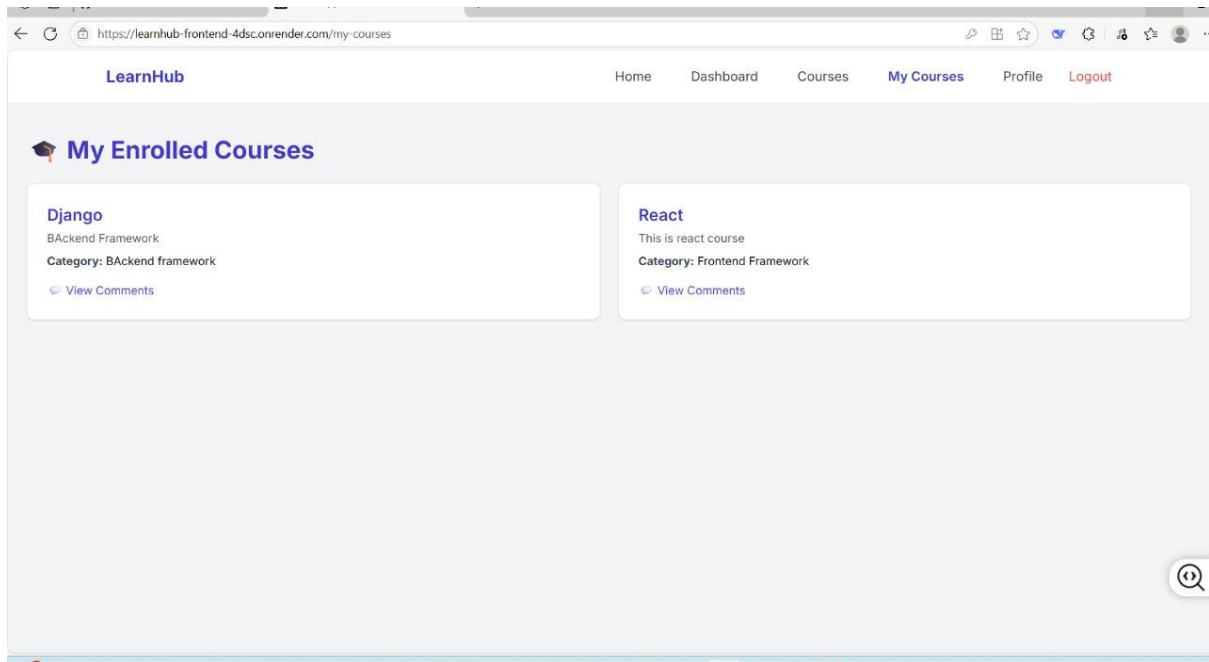
- Section title indicates that the student is currently enrolled in one course.
  - **Course Card:**
    - **Course Name:** Django
    - **Type:** Backend Framework
    - **Category:** BAckend framework (note: case inconsistency)
    - **Link:** "View Comments" – leads to the comment section for that specific course.
  - **Background:**
    - Clean, soft light-blue gradient background.
    - Simple and professional UI design, enhancing readability and usability.
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## Functionality Overview

The **dashboard page** provides students with:

- A personalized welcome and overview.
  - A clear path to explore more courses via "**Browse Courses.**"
  - A quick view of **currently enrolled courses**.
  - Easy access to **course-specific actions** like viewing feedback/comments.
- 

**Image 5: Corses Enrolled By Students(My Corses) Page**




### Description:

This image shows the “**My Courses**” Page of the **LearnHub** web application, where users can view the courses they are currently enrolled in. Below is a detailed description:

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#### Image Description – My Enrolled Courses Page (LearnHub)

- **Header Section:**
  - Top navigation bar includes:
    - **Home**
    - **Dashboard**
    - **Courses**
    - **My Courses** (highlighted)
    - **Profile**
    - **Logout** (in red)
- **Page Title:**
  - Large heading at the top-left:  **My Enrolled Courses**
  - Indicates this section displays the user's active learning modules.
- **Course Cards:**
  - Two rectangular cards represent enrolled courses:

#### 1. **Django**

- Description: **Backend Framework**



- Category: *BAckend framework* (note: inconsistent casing)
- Option: **View Comments** (text with speech-bubble icon)

## 2. React

- Description: *This is react course*
- Category: *Frontend Framework*
- Option: **View Comments**

- **Background & Layout:**

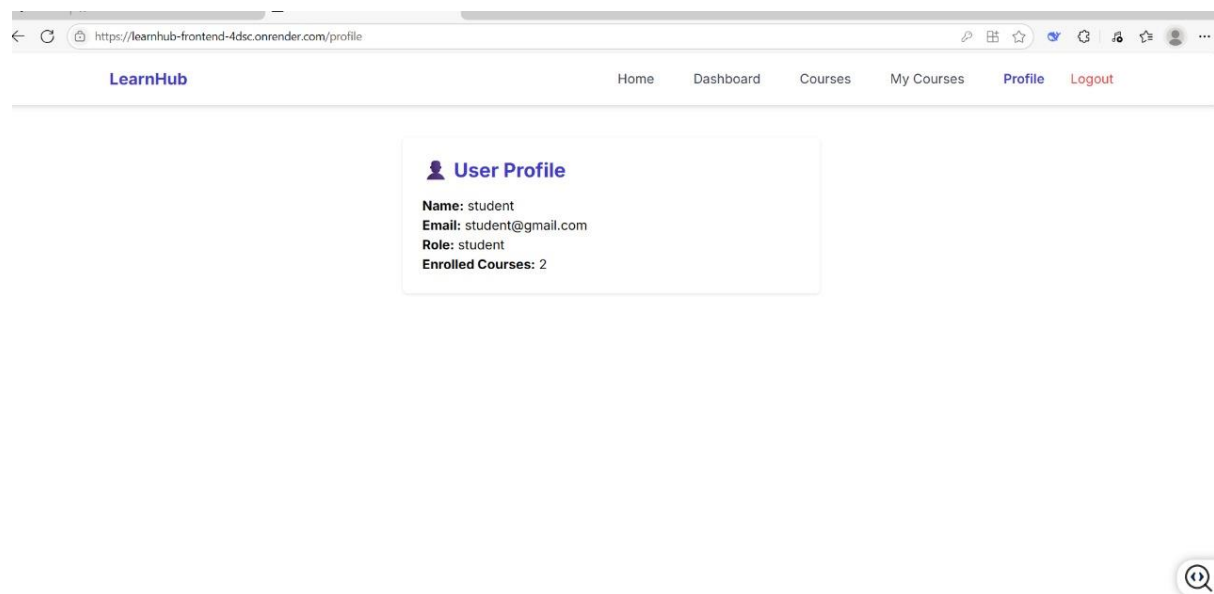
- Simple and clean light grey background.
- Cards are equally spaced and designed for clarity.
- Minimalistic design for easy navigation.

### Functionality Overview

The “My Courses” page allows students to:

- See all the courses they are currently enrolled in.
- Check course descriptions and categories.
- **Click "View Comments" to read or add course-related feedback or discussions.**


### Image 6: Profile Page



### Description:

This image shows the **User Profile Page** of the **LearnHub** web application. Here's a detailed description:

## Image Description – User Profile Page (LearnHub)

- **Header Section:**
  - Standard navigation bar at the top includes:
    - **Home**
    - **Dashboard**
    - **Courses**
    - **My Courses**
    - **Profile** (highlighted in blue)
    - **Logout** (highlighted in red)
- **Main Content – User Profile Card:**
  - The center of the page displays a white card containing the user's profile information.
  - The card includes:
    -  **User Profile** (header with an icon)
    - **Name:** student
    - **Email:** student@gmail.com
    - **Role:** student
    - **Enrolled Courses:** 2
- **Design & Layout:**
  - The background is plain white with a minimalistic layout.
  - The profile card is centered for clarity and focus.

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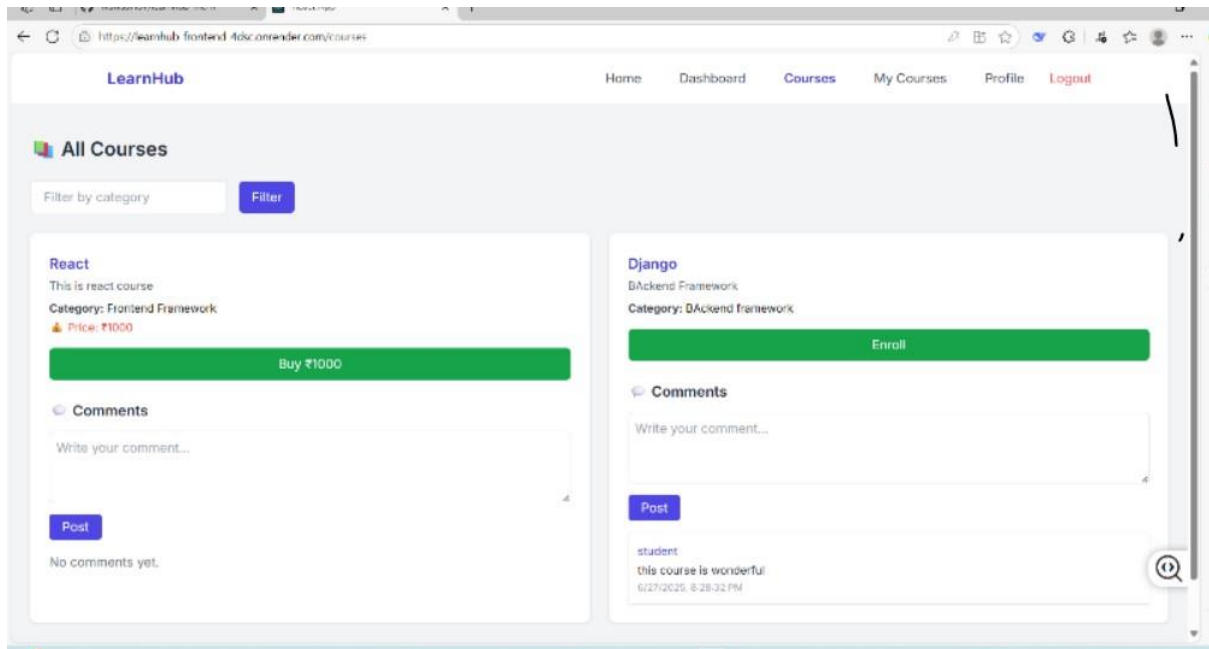
## Functionality Overview

The **User Profile Page** provides:

- A quick summary of the logged-in user's details.
- Visibility into how many courses the user is enrolled in.
- Simple and clean UI for checking profile status.

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## Image 7: Courses Page




### Description:

This image shows the **"All Courses" Page** of the **LearnHub** web application, where users can browse and interact with available courses. Here's a detailed description:

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#### Image Description – All Courses Page (LearnHub)

- **Header Section:**
    - Top navigation bar with the following links:
      - **Home**
      - **Dashboard**
      - **Courses** (currently selected)
      - **My Courses**
      - **Profile**
      - **Logout** (highlighted in red)
  - **Page Title:**
    -  **All Courses** – Indicates that this section displays all available courses on the platform.
  - **Filter Feature:**
    - Input field with placeholder text: "Filter by category"
    - A **Filter** button in purple to apply category-based filtering.
-

## □ Course Cards Displayed:

### 1. React Course

- **Description:** This is a React course.
- **Category:** Frontend Framework
- **Price:** ₹1000 (displayed with a price tag icon)
- **Action Button:** Green **Buy ₹1000** button for purchasing the course.
- **Comments Section:**
  - A comment box with a “Post” button.
  - No comments yet ("No comments yet." displayed).

### 2. Django Course

- **Description:** Backend Framework
- **Category:** BAckEnd framework (note: casing inconsistency)
- **Action Button:** Green **Enroll** button (free course).
- **Comments Section:**
  - Comment box with a “Post” button.
  - One posted comment:

“student: this course is wonderful”

Timestamp: 6/27/2025, 8:28:32 PM

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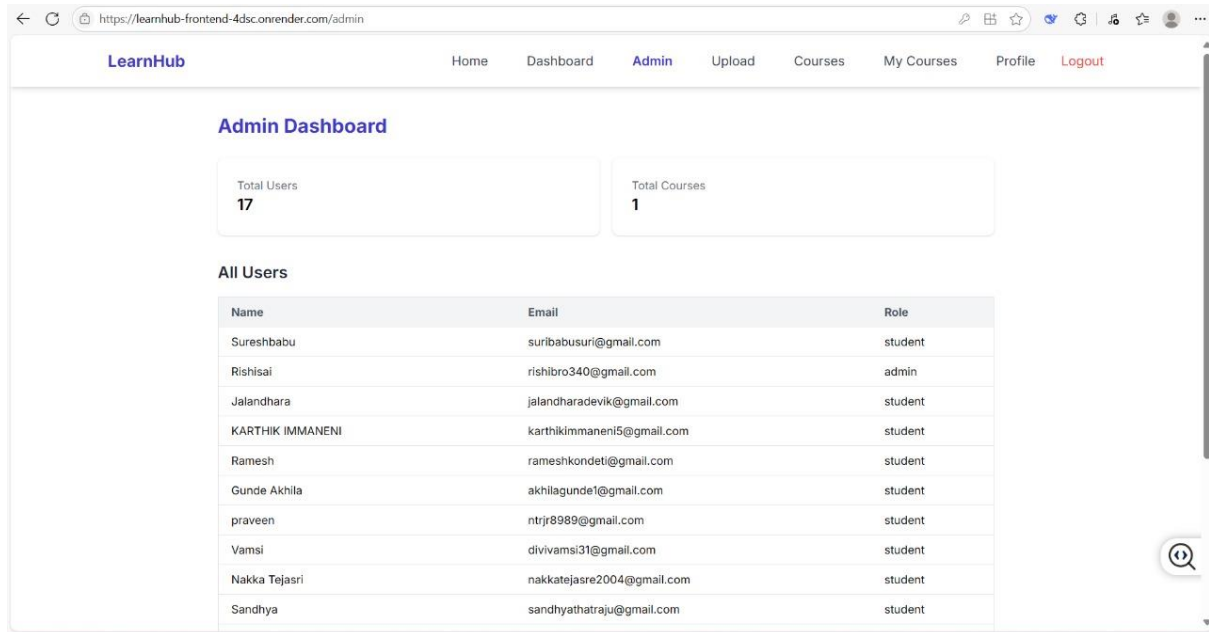
## 💡 Functionality Overview

This page allows users to:

- View all courses offered on LearnHub.
- Use category filters to narrow down results.
- Buy or enroll in courses.
- Add and read comments for each course.

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## Image 8: Admin Page



### Description:

This image shows the **Admin Dashboard Page** of the **LearnHub** web application. It is intended for administrators to view user and course data. Here's a detailed description:

#### Image Description – Admin Dashboard Page (LearnHub)

- **Header Section:**
  - Navigation bar includes:
    - **Home**
    - **Dashboard**
    - **Admin** (currently active)
    - **Upload**
    - **Courses**
    - **My Courses**
    - **Profile**
    - **Logout** (highlighted in red)

#### Main Section – Admin Dashboard:

- **Dashboard Title:**
  - Heading: **Admin Dashboard** in bold blue text.
- **Summary Cards (Top):**

- **Total Users:** 17
- **Total Courses:** 1

These cards give a quick overview of the platform statistics.

- **User Table (All Users):**

- Displays a list of all registered users.
- **Columns:**
  - **Name**
  - **Email**
  - **Role**
- The list includes users like:
  - *Sureshbabu* – student
  - *Rishisai* – admin
  - *Jalandhara* – student
  - Others (e.g., Karthik, Ramesh, Akhila, Praveen, etc.)

## □ Functionality Overview

This **Admin Page** allows the administrator to:

- View a complete list of users with their names, emails, and roles (admin or student).
- Monitor overall user count and course availability.
- Ensure proper user-role management and platform tracking.

## System Architecture

- **ER Diagram:** (Entity-Relationship diagram showing tables/entities like Student, Course, Enrollment, etc.)

### DIAGRAM:

- User
- |— UserID (PK)
- |— Name
- |— Email
- |— Password

- └─ Role
- |
- | 1 M
- ▼ ▲
- Enrollment
- └─ EnrollmentID (PK)
- └─ UserID (FK)
- └─ CourseID (FK)
- └─ EnrollmentDate
- └─ Progress
- |
- | M 1
- ▼ ▲
- Course
- └─ CourseID (PK)
- └─ Title
- └─ Description
- └─ Category
- └─ Language
- └─ CreatedBy (FK → User)
- |
- | 1 M
- ▼ ▲
- Lesson
- └─ LessonID (PK)
- └─ CourseID (FK)
- └─ Title
- └─ Content
- └─ OrderNumber
- 
- Feedback

```

+-----+
| Student |
+-----+

|
| Register/Login, View Courses, Enroll
v

+-----+
| LearnHub |
| System   |
+-----+

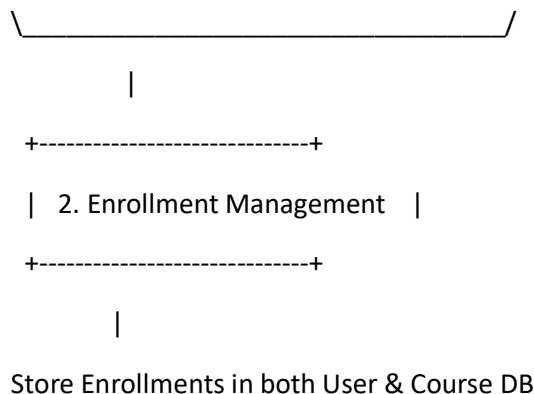
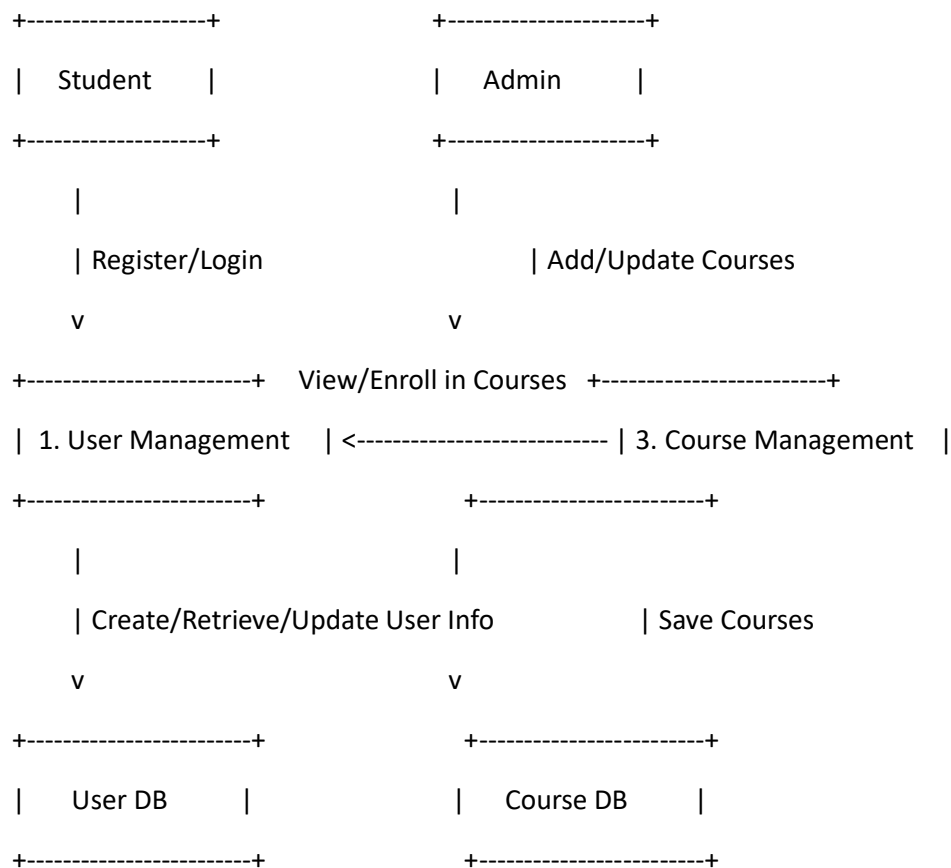
|

+-----+-----+
|               |
v               v

+-----+       +-----+
| User DB   |   | Course DB |
+-----+       +-----+

```





## □ Components & Processes

# Process	Description
1 <b>User Management</b>	Handles student registration, login, profile updates.
2 <b>Enrollment Management</b>	Manages student enrollment into courses, updates both user and course records.
3 <b>Course Management</b>	Admin or instructor can add, update, or delete course information.

## 🔌 External Entities

- **Student:** End-user who registers and enrolls in courses.
  - **Admin:** Adds or manages available courses.
- 

## □ Data Stores

### Data Store Description

**User DB** Stores user details like name, email, password, role, enrolled courses.

**Course DB** Stores course title, description, duration, and enrolled students.

### Prerequisites:

- Node.js installed
- React environment set up (create-react-app or Vite)
- MongoDB account (if using database)
- Code editor (VS Code recommended)
- Internet connection

## Installation and Setup Instructions

bash

CopyEdit

# Clone frontend repo

git clone https://github.com/yourusername/learnhub-frontend

# Install dependencies

cd learnhub-frontend

npm install

# Start the app

npm start

(Include backend setup if applicable.)

## Conclusion

The LearnHub mini project successfully provides an accessible and intuitive platform for skill center students to learn programming courses online. It lays a strong foundation for scalable, real-world e-learning platforms.

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### **Future Scope**

- Add quizzes and assessments
  - Integrate certification
  - Admin panel for course management
  - Chat-based doubt resolution
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### **12. References**

- React.js Documentation
  - MongoDB Docs
  - Render Deployment Guide
  - Any tutorials/resources you referred to
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**Project site:** <https://learnhub-frontend-4dsc.onrender.com/>

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