

EDUVERSE – ELEARNING PORTAL

By

Dhaval Hasmukhbhai Chhayla (23MCA022)

Neel Hemantkumar Desai (23MCA028)

Under Guidance

of

Internal Guide

Sohil Pandya

Submitted to



Smt. Chandaben Mohanbhai Patel Institute of Computer Applications
CHARUSAT
Changa

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Accredited with Grade A+ by NAAC,
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
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INSTITUTE OF COMPUTER APPLICATION**
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This is to certify that

Mr. / Mrs. DHAVAL · H. CHHAYLA

of MCA Class, Roll No. 23MCA022

*Exam No. 23MCA022 has satisfactorily completed
his/her term work in, CA939 Mini Project
for the term ending in Nov-Dec 2024/2025.*

Date : 16/11/2024

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Head of Department



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Mr. / Mrs. Neel H. Desai

of MCA Class, Roll No. 23MCA028

*Exam No. 23MCA028 has satisfactorily completed
his/her term work in, CA939 Mini Project
for the term ending in Nov-Dec 2024/2025.*

Date : 16/11/2024

Sign. of Faculty

Head of Department

Acknowledgement

Knowledge in itself is a continuous process. At this moment of our substantial enhancement, We rarely find words to express our gratitude towards those who were constantly involved with us.

The completion of any inter disciplinary project depends upon coordination, cooperation and combined efforts of several resources of knowledge, creativity, skill, energy and time. The work being accomplished now, we feel our sincerest urge to recall and knowledge through these lines, trying our best to give full credit wherever it deserves.

We would like to thank our project guide **Dr. Sohil Pandya**, I/C Principal **Dr. Dharmendra Patel** and I/C Dean **Dr. Sanskruti Patel** who advised and gave us moral support through the duration of our project. Without their constant encouragement we could not have been able to achieve what we have.

It's our good fortune that we had support and well wishes of many. We are thankful to all and those names which have been forgotten to acknowledge here but contributions have not gone unnoticed.

With Sincere Regards,

Dhaval Hasmukhbhai Chhayla (23MCA022)
Neel Hemantkumar Desai (23MCA028)

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PROJECT PROFILE

1. Project Profile

Project Name: Eduverse – eLearning Portal

Type of Application: Web-based E-learning Portal

Project Description:

Our e-learning portal is a web-based application developed using the MERN (MongoDB, Express.js, React.js, Node.js) stack, designed to provide an efficient and user-friendly learning experience. The platform offers three distinct roles: Visitor, Student, and Admin, each with unique functionalities.

Visitor: Can search for courses, can view reviews (General Reviews means they can have review of all courses, Specific reviews), Can Access Code Editor, can view about us page, Can Apply for becoming an instructor, Can Purchase Course, Can View IT Companies Hiring Sheet.

Student: Can Signup using email OTP verification, Can Sign In into the portal, Can reset password using reset password link, Search for courses, Can View available courses, Can View IT Companies Hiring Sheet, Can Buy the course, If need to but in future can add to cart, Can Access the content, Can share the course, Can Add Review, Make Payment for course, Can Access & Edit Profile, After Learning they can apply for certificate, Can Access Code editor, Can view about Page, view reviews (General Reviews means they can have review of all courses, Specific reviews), Can Apply for internship, Can Apply for becoming an instructor, Can Logout

Admin: Can Sign In into the portal, Can Reset Password using reset password link, Search For Courses, Can view available courses, Can View IT Companies Hiring Sheet, Can Access & Edit Profile, Can access code editor, Approve and Deny for requested Certificate, Can View About us page, Can view reviews (General Reviews means they can have review of all courses, Specific reviews), Can Get Applied Intern details, Can get instructor applicant details, Can Add/Update/Delete Course details, On Dashboard can see total no of Students, Courses, Income

Team Size: 2

Front End: Html (5), Tailwind CSS (3), React.JS (18.2.0)

Back End: Node.JS (20.17.0), Express.JS (4.21.0), Google Drive API

Database: MongoDB (8.0.0)

Cloud Storage: Cloudinary, Google Drive

Tools used: Visual Studio (1.92), MongoDB Compass (1.44.4), Draw.io (24.7.16)

INTRODUCTION TO TOOLS

2. Introduction to Tools

➤ Front End Tool:

The front end of our e-learning portal is developed using a combination of HTML5, CSS3, and React.js, ensuring a responsive and dynamic user interface.

- **HTML5:** As the backbone of our front-end structure, HTML5 allows us to build a well-organized and semantic layout, providing enhanced accessibility and SEO benefits. It supports multimedia elements like audio and video, which are crucial for delivering a rich e-learning experience, making the platform more engaging for users.
- **Tailwind CSS:** Tailwind CSS is a modern utility-first CSS framework that simplifies the process of styling web applications. Unlike traditional CSS frameworks that provide pre-designed components, Tailwind focuses on providing utility classes that allow developers to build custom designs directly within their HTML.
- **React.js (18.2.0):** React.js serves as the core framework for building the dynamic user interface. It allows the development of reusable components, such as course cards, quizzes, and certificates, resulting in a modular and maintainable codebase. React's virtual DOM ensures efficient rendering, providing a fast and smooth user experience, even when handling complex data. Additionally, React's state management allows for real-time updates, ensuring that users can interact with the portal seamlessly.

➤ Back End Tool:

- **Node.js (20.17.0):** As a JavaScript runtime built on Chrome's V8 engine, Node.js allows us to handle multiple client requests efficiently and ensures non-blocking I/O operations. This makes our e-learning portal highly responsive, even under heavy user load. Node.js enables real-time data handling, which is crucial for features like quizzes, course progress tracking, and instant updates across the platform.
- **Express.js (4.21.0):** Acting as the web application framework for Node.js, Express.js simplifies the process of building server-side logic and API endpoints. It offers a streamlined way to handle routing, middleware, and HTTP requests, making our back-end structure more organized and maintainable. Express.js helps in setting up RESTful APIs that facilitate communication between the front end and back end, ensuring smooth data transfer, such as user authentication, course enrollment, and payment processing.

- **Google Drive API:** The Google Drive API allows applications to interact with Google Drive, enabling them to programmatically upload, download, manage, and organize files and folders in a user's Drive.

- **Database:**

- **MongoDB (Version 8.0.0):** The primary database used in our application; MongoDB is a NoSQL database that stores data in a flexible, JSON-like format. Key features include:
 - **Scalability:** Easily accommodates changes in data structure without requiring extensive migrations.
 - **Efficient Data Retrieval:** Supports quick access to large datasets, essential for managing user profiles, course content, payments, and quiz results

- **Cloud Storage**

- **Cloudinary:** Focused on media storage, Cloudinary specializes in managing and delivering images and videos. It offers real-time optimizations, transformations, and a built-in CDN for efficient media delivery, making it ideal for media-rich applications.
- **Google Drive:** A general-purpose cloud storage solution, Google Drive is used to store and organize various file types, supporting easy sharing and collaboration with fine-grained permissions.

- **Tools Used:**

- **Visual Studio Code (1.92):** Our primary code editor for the project, Visual Studio Code, provides a versatile and feature-rich environment for developing both the front-end and back-end components. With its extensive library of extensions, built-in Git integration, and support for various languages and frameworks, it allows for efficient and organized development.
- **MongoDB Compass (1.44.4):** We utilized MongoDB Compass as the graphical user interface (GUI) for managing our MongoDB database. This tool provides an easy way to visualize, interact with, and manage the database, allowing us to handle data collections, run queries, and monitor database performance efficiently.
- **Draw.io (24.7.16):** Used for creating flowcharts, diagrams, and system architecture designs, Draw.io helps in planning and visualizing the overall structure of the e-learning portal. It aids in effectively communicating the design of the application, including data flow, user interactions, and system components.

SYSTEM STUDY

3.1 Existing system

➤ Overview

Existing e-learning platforms often operate within traditional frameworks where content is accessible but with several limitations that impact the overall learning experience. These systems generally lack features like **personalization**, **interactivity**, and **efficient management** functionalities, which are essential for both students and administrators.

➤ Features

- **Inefficient Payment Processing:** Payment options may be limited or poorly integrated with course access, which can lead to delays and frustration for users attempting to access paid content.
- **Lack of Additional Resources:**
 - **No Code Editor:** Many platforms don't provide an integrated code editor for practice, which is crucial for technical skill development.
 - **Limited Job Resources:** Platforms generally lack access to an up-to-date MNC hiring sheet or similar resources, which could help students transition into job roles.
 - **No Internship or Instructor Application Process:** Users do not have an option to apply for internships or become instructors, limiting opportunities for advanced learning or career development.

3.2 Proposed system

➤ Dynamic Application

The proposed e-learning portal leverages the **MERN stack** (MongoDB, Express.js, React.js, Node.js) to provide a modern, interactive, and scalable solution for online learning.

This platform is designed with three distinct user roles: **Visitor**, **Student**, and **Admin**.

3.3 Scope of the Proposed System

The system includes the following modules:

- **Register:** Student can create an account by providing their FirstName, LastName, Email, and Password.
- **Login:** Student and Admin can access the platform using their Email and Password.
- **Visitor Role:**
 - Visitor can search for courses that interest them.
 - Visitor can view both general reviews and course reviews
 - Visitor can Access IT Companies hiring sheet
 - Visitor can access the course editor
 - Visitor can apply for becoming an instructor
 - Visitor can pay for course and can access content by signing in
- **Student Role:**
 - Student can sign up using email OTP verification
 - Student can sign in in to portal
 - Student can reset their password
 - Student can edit their profile
 - Student can search for courses
 - Student can view available courses
 - Student can add courses to their cart for future purchase
 - Student can purchase courses
 - Student can access course content
 - Student can share courses
 - Student can add reviews
 - Student can make payment and access lectures
 - Students can view the IT Companies Hiring Sheet
 - Student can access the code editor
 - Student can view the About Us page
 - Student can see both general and course specific reviews
 - Additionally, they can apply for certificates upon course completion
 - Student can apply for internships
 - Student can apply to become an instructor
 - Student can securely log out.

➤ **Admin Role:**

- Admin can sign in into the portal
- Admin can reset their password
- Admin can edit their profile
- Admin can search for courses
- Admin can view available courses, add, update, or delete course details and lectures.
- Admin can view the IT Companies Hiring Sheet
- Admin can access the code editor
- Admin can view the About Us page
- Admin can see both general and course specific reviews
- Admin can approve or deny certificates
- Admin can review internship applications
- Admin can manage instructor applications
- Admin can access a dashboard showing total students, courses, and income.

3.4 AIM and Objective of System

Aim: The aim of the proposed e-learning portal is to deliver a comprehensive online learning experience that connects students with high-quality educational resources, supports career advancement through internships, and enhances skill-building with interactive tools like a code editor. The platform seeks to simplify course enrollment, streamline assessments and certifications, and provide pathways for students to transition into roles as instructors or interns.

Objectives

The following are the key objectives of the system:

1. User-Friendly Experience

- Build an intuitive platform that allows users, including visitors and registered students, to easily search for courses, enroll, access course lecture, and navigate additional resources.

2. Career and Skill Development Tools

- Offer students access to an **in-browser code editor** for hands-on practice with technical skills, and provide information on **internship opportunities** and company hiring sheets for career progression.

3. Pathway to Instruction

- Enable students to apply to become instructors, giving them opportunities to advance within the platform and contribute by sharing their knowledge.

4. Efficient Course and User Management

- Provide Admins with tools to manage course content, instructor applications, and certifications, and to track overall platform metrics, ensuring a well-organized, user-focused environment.

5. Data-Driven Improvements

- Leverage analytics to monitor engagement, course effectiveness, and user preferences, supporting ongoing enhancements to the platform and course offerings.

6. Secure Payment Processing

- Integrate secure payment gateways, allowing students to confidently pay for courses with multiple payment options, gaining uninterrupted access to premium content.

3.5 Feasibility Study

3.5.1 Operational Feasibility (Functionality):

➤ **Visitor Role:**

- Visitor can search for courses that interest them.
- Visitor can view both general reviews and course reviews
- Visitor can Access IT Companies hiring sheet
- Visitor can access the course editor
- Visitor can apply for becoming an instructor
- Visitor can pay for course and can access content by signing in

➤ **Student Role:**

- Student can sign up using email OTP verification
- Student can sign in to portal
- Student can reset their password
- Student can edit their profile
- Student can search for courses
- Student can view available courses
- Student can add courses to their cart for future purchase
- Student can purchase courses
- Student can access course content
- Student can share courses
- Student can add reviews
- Student can make payment and access lectures
- Students can view the IT Companies Hiring Sheet

- Student can access the code editor
- Student can view the About Us page
- Student can see both general and course specific reviews
- Additionally, they can apply for certificates upon course completion
- Student can apply for internships
- Student can apply to become an instructor
- Student can securely log out.

➤ **Admin Role:**

- Admin can sign in into the portal
- Admin can reset their password
- Admin can edit their profile
- Admin can search for courses
- Admin can view available courses, add, update, or delete course details and lectures.
- Admin can view the IT Companies Hiring Sheet
- Admin can access the code editor
- Admin can view the About Us page
- Admin can see both general and course specific reviews
- Admin can approve or deny certificates
- Admin can review internship applications
- Admin can manage instructor applications
- Admin can access a dashboard showing total students, courses, and income.

3.5.2 Technical Feasibility:

➤ The proposed e-learning portal will be built using the MERN stack, consisting of the following technologies:

- **MongoDB:** A NoSQL database for storing user data, course content, and progress.
- **Express.js:** A backend web framework which runs on Node.js, facilitating the development of the backend.
- **React.js:** A JavaScript library for building user interfaces, ensuring a responsive and interactive user experience.
- **Node.js:** A runtime environment for executing JavaScript on the server side, allowing for efficient data processing.

3.5.3 Economic Feasibility:

- The entire technology stack is open-source and freely available, which eliminates software licensing fees. Since the system is not hosted on any paid platforms, operational costs are minimized.

SYSTEM ANALYSIS

4.1 Requirements Specification

➤ **Purpose**

The purpose of the proposed e-learning portal is to provide a comprehensive online learning experience that connects students with educational resources. The system aims to streamline the process of course enrolment, study, and certification.

By leveraging technology, the platform ensures accessibility and convenience for users while allowing admins to efficiently manage content and user interactions.

➤ **Modules are:**

1. Visitor:

- Visitor can search for courses that interest them.
- Visitor can view both general reviews and course reviews
- Visitor can Access IT Companies hiring sheet
- Visitor can access the course editor
- Visitor can apply for becoming an instructor
- Visitor can pay for course and can access content by signing in

2. Student:

- Student can sign up using email OTP verification
- Student can sign in in to portal
- Student can reset their password
- Student can edit their profile
- Student can search for courses
- Student can view available courses
- Student can add courses to their cart for future purchase
- Student can purchase courses
- Student can access course content
- Student can share courses
- Student can add reviews
- Student can make payment and access lectures
- Students can view the IT Companies Hiring Sheet
- Student can access the code editor
- Student can view the About Us page
- Student can see both general and course specific reviews
- Additionally, they can apply for certificates upon course completion
- Student can apply for internships

- Student can apply to become an instructor
- Student can securely log out.

3. Admin Role:

- Admin can sign in into the portal
- Admin can reset their password
- Admin can edit their profile
- Admin can search for courses
- Admin can view available courses, add, update, or delete course details and lectures.
- Admin can view the IT Companies Hiring Sheet
- Admin can access the code editor
- Admin can view the About Us page
- Admin can see both general and course specific reviews
- Admin can approve or deny certificates
- Admin can review internship applications
- Admin can manage instructor applications
- Admin can access a dashboard showing total students, courses, and income.

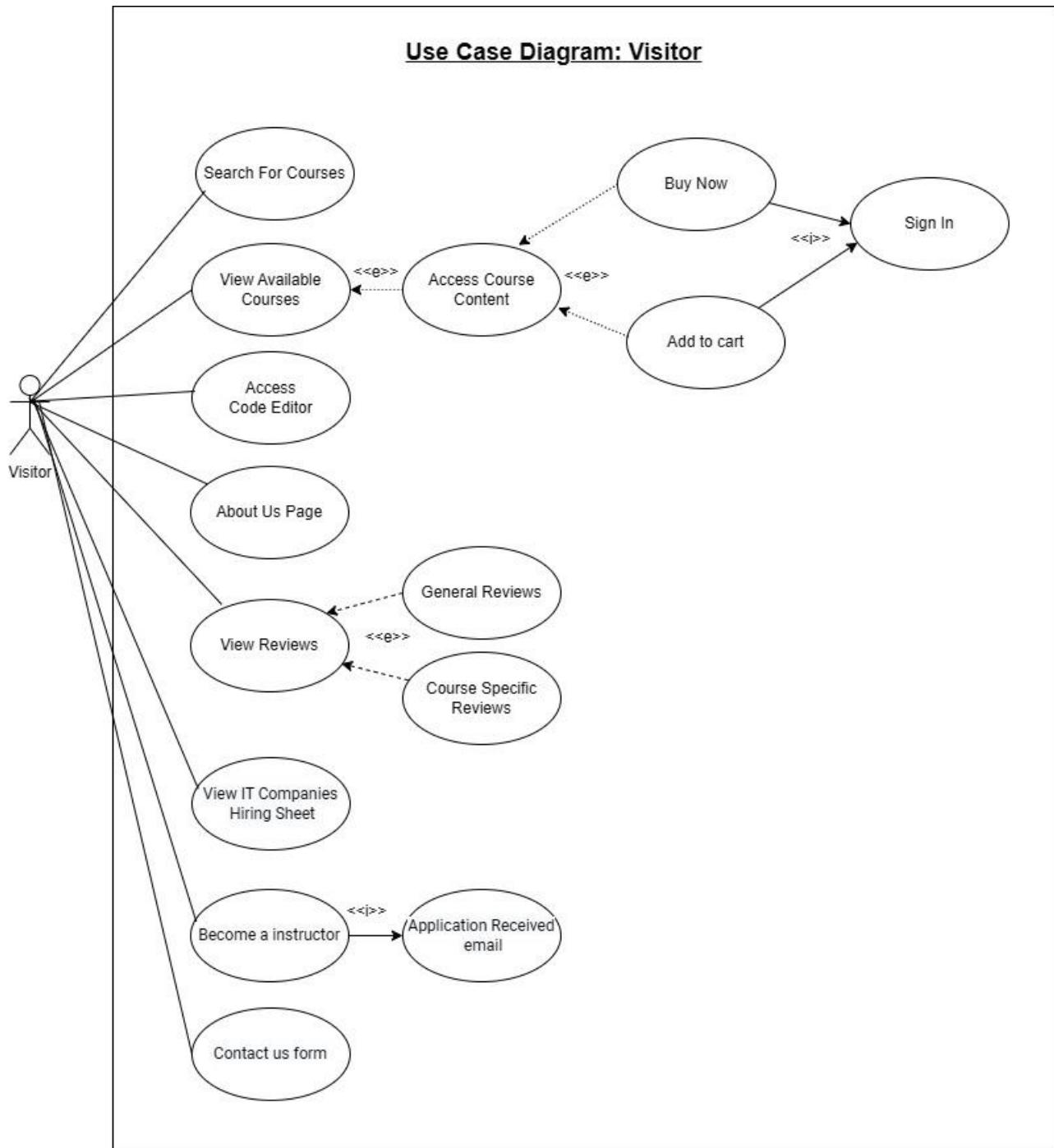
➤ Intended Audience

The intended audience for the e-learning portal includes:

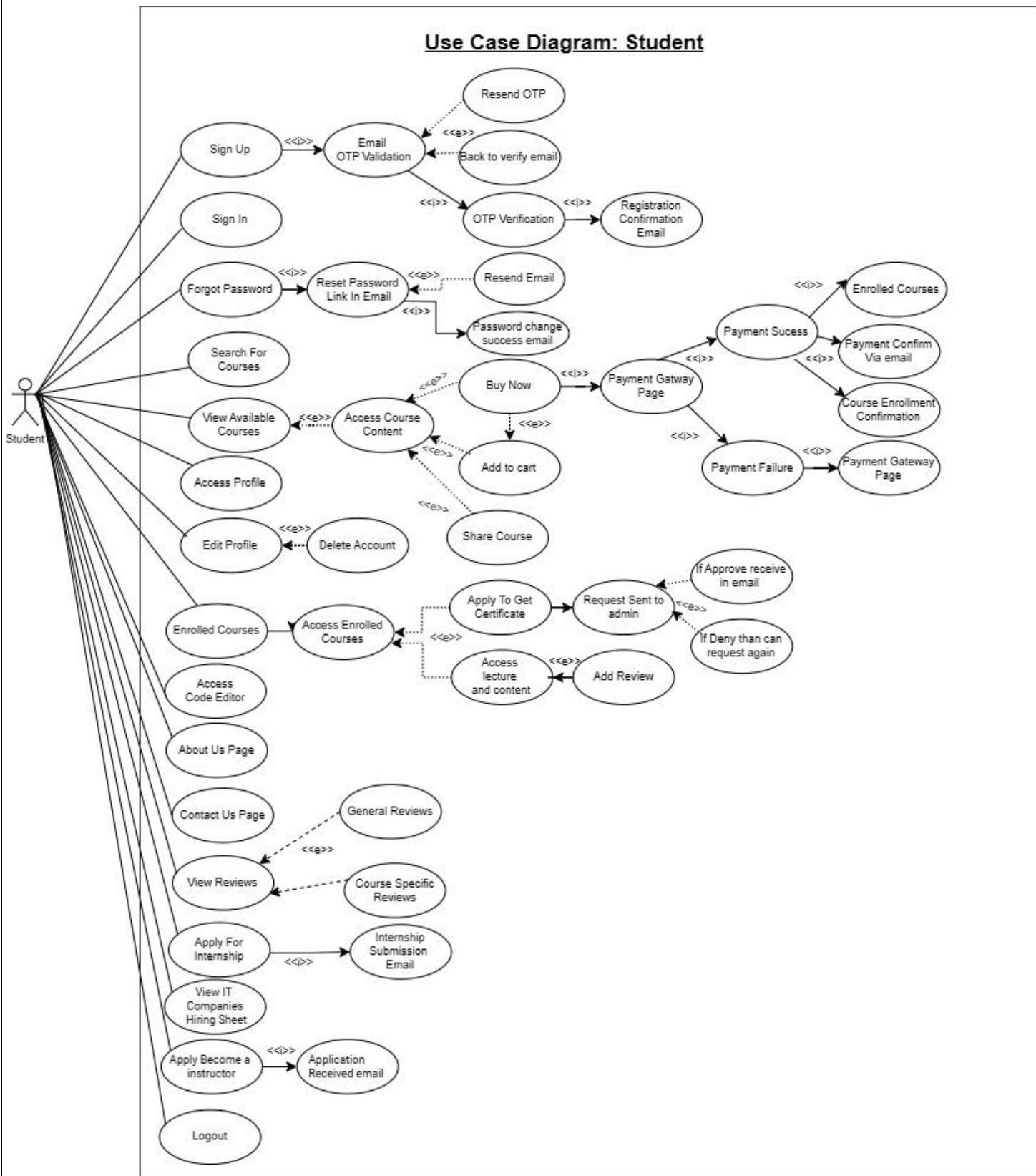
- **Students:** Individuals seeking to enhance their knowledge and skills through online courses.
- **Admins:** Educational personnel responsible for managing course content, overseeing the platform's functionalities, and supporting students throughout their learning journey. Admins ensure a smooth and efficient experience for all users by maintaining course materials, managing applications, and approving certifications.

4.2 Use Case Diagram

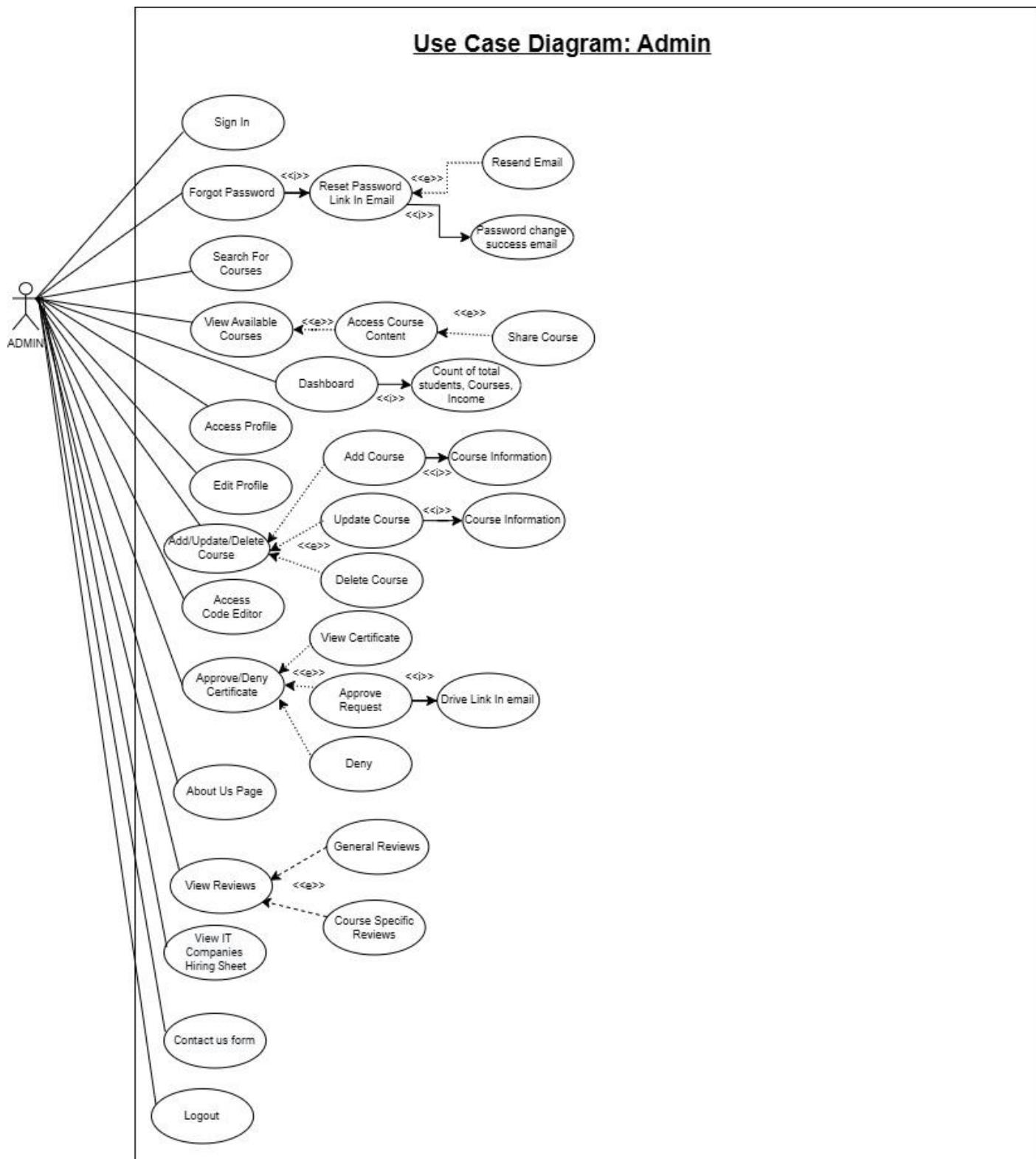
➤ For visitor:



➤ For Student:

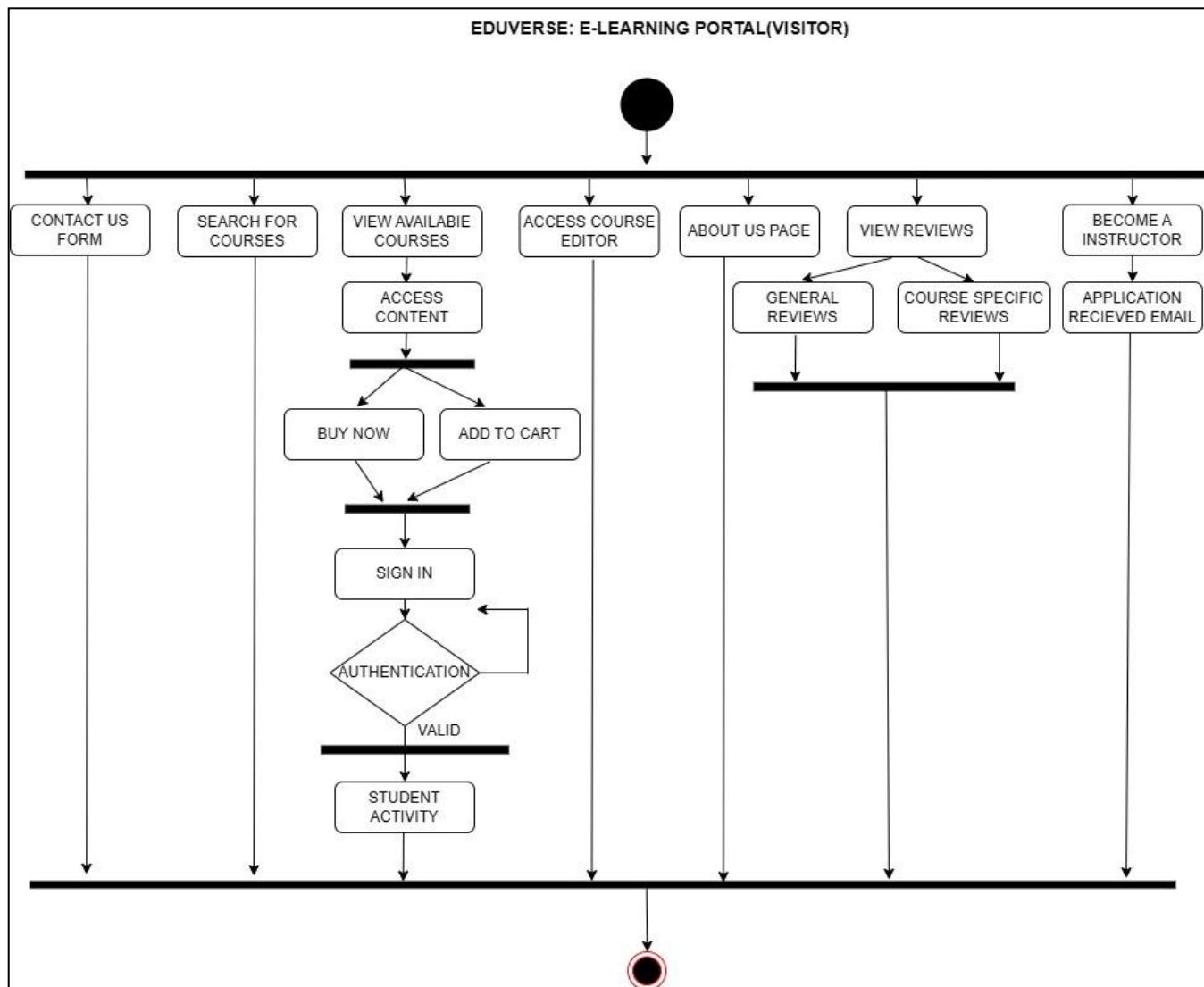


➤ For Admin:

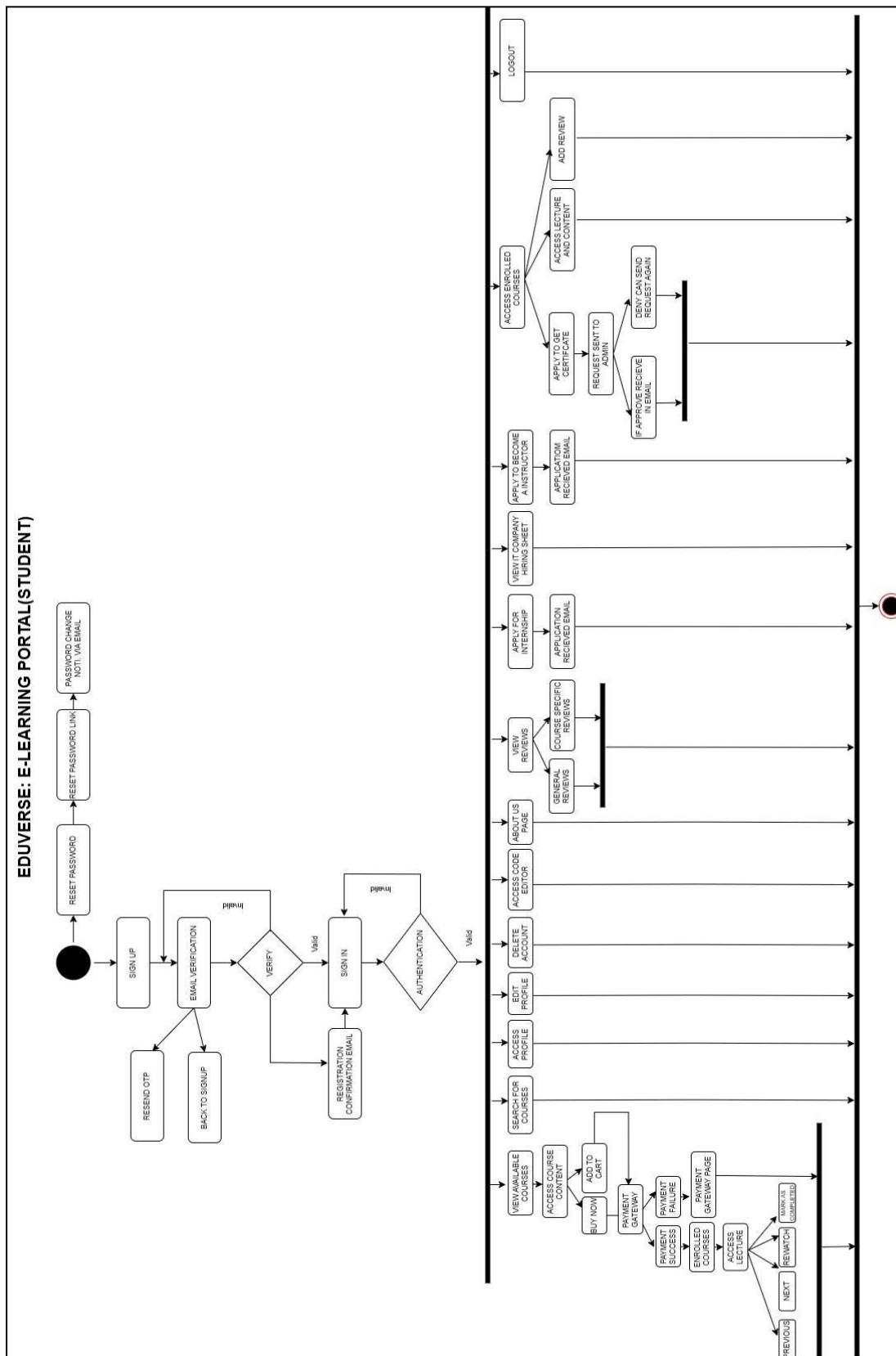


4.3 Activity Diagram

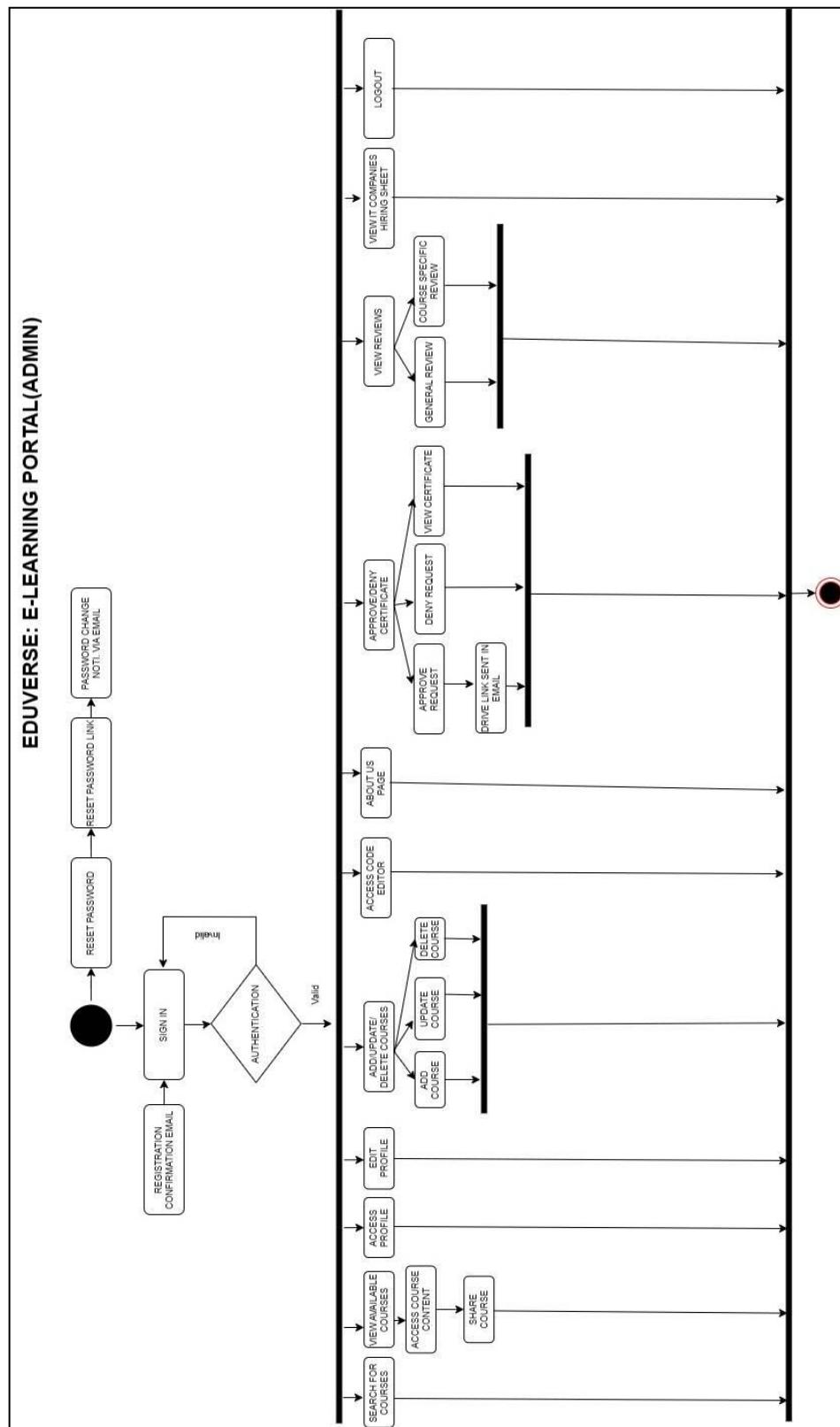
➤ Activity Diagram (VISITOR)



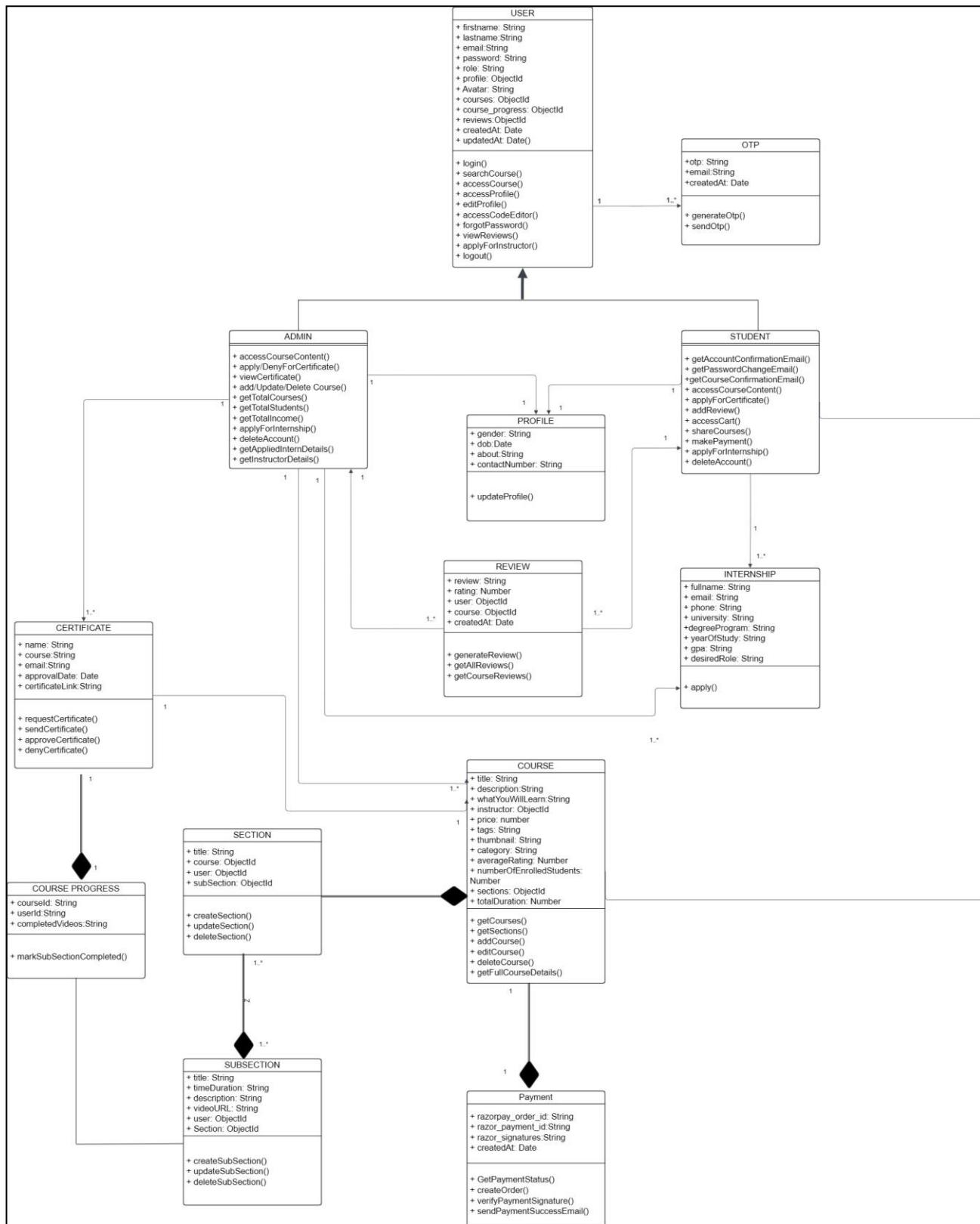
➤ Activity Diagram (STUDENT):



➤ Activity Diagram (ADMIN):



4.4 Class Diagram



SYSTEM DESIGN

5.1 Data Dictionary

1. User

No.	Name	Type	Description	Example
1.	_id	Object ID	Unique ID	672f9e303a836de1632e6877
2.	FirstName	String	User's FirstName	Neel
3.	LastName	String	User's LastName	Desai
4.	Email	String	User's Email	23mca028@charusat.edu.in
5.	Password	String	User's Password	Encrypted
6.	Role	String	User's Role	admin
7.	Avatar	String	User's Avatar	https://api.dicebear.com/5.x/initials/svg?seed=Neel%20Desai
8.	Profile	Object ID	Profile ID	672f9e303a836de1632e6875
9.	Courses	Array	Course ID	[672f9f9b3a836de1632e689d, 67338a02d35ada9fd7c560bf]
10.	Course Progress	Object ID	Course Progress ID	672fa2c86fcf93a7afe36fda
11.	createdAt	Date	Created At Date	2024-11-09T17:57:14.776+00:00
12.	updatedAt	Date	Update at Date	2024-11-12T17:48:28.278+00:00
13.	resetPasswordExpire	Date	Reset Password expire date	2024-11-12T17:58:28.275+00:00
14.	resetPasswordToken	String	Generate a token	eaef1c8f6a83a98ed0f1702284fe5cb5d2fc78a80bf808aca491419ed33a7df9
15.	Reviews	Array	Course Review	[672f9f9b3a836de1632e689d, 67338a02d35ada9fd7c560bf]

2. Course

No.	Name	Type	Description	Example
1.	_id	Object ID	Unique ID	672f9f9b3a836de1632e689d
2.	Title	String	Course Title	HTML
3.	Description	String	Course Description	Learn Basics of HTML
4.	Whatyouwilllearn	String	Learning Outcome	Basics
5.	Instructor	Object ID	Instructor ID	672f9e303a836de1632e6877
6.	Price	Int32	Course Price	500
7.	Tags	Array	Course tags	[html, webdev]

8.	Thumbnail	String	Course Thumbnail	https://res.cloudinary.com/dqd4sg47k/image/upload/v1731174265/EduVerse
9.	Category	String	Course Category	App Development
10.	averageRating	Int32	Course Rating	4
11.	numberofEnrolled Students	Int32	Enroll Students	5
12.	Sections	Array	Collection of Section ID	[672f9fa03a836de1632e68a6, 672f9fa03a836de1632e58a7]
13.	totalDuration	Double	Course Duration	326.75120200000003
14.	studentsEnrolled	Array	Collection of Students Enroll	[672f9fa03a836de1632e68a6, 672f9fa03a836de1632e58a7]
15.	Instructions	Array	Collection of Instructions	[complete course, Get Certificate]
16.	Status	String	Publish/Draft	Published

3. Section

No.	Name	Type	Description	Example
1.	_id	Object ID	Unique ID	672f9fa03a836de1632e68a6
2.	title	String	Course Section	Section1
3.	course	Object ID	Course ID	672f9f9b3a836de1632e689d
4.	user	Object ID	User ID	672f9fa03a836de1632e68a6
5.	subSections	Array	Collection of subsection ID	[672f9e303a836de1632e6877, 672f9fa03a836de1632e68a6]

4. SubSection

No.	Name	Type	Description	Example
1.	_id	Object ID	Unique ID	66f9659bc11909d69c285fda
2.	title	String	SubSection Title	Lecture 1
3.	timeDuration	String	Lecture Duration	134.745397
4.	description	String	Description of sub section	Fundamental of HTML
5.	videoUrl	String	Video URL	https://res.cloudinary.com/dqd4sg47k/video/upload/v1731174285/EduVerse
6.	user	Object ID	User ID	672f9e303a836de1632e6877
7.	section	Object ID	Section ID	672f9fa03a836de1632e68a6

5. Course Progress

No.	Name	Type	Description	Example
1.	_id	Object ID	Unique ID	672fa2c86fcf93a7afe36fda
2.	courseId	Object ID	Course's ID	672fa2c86fcf93a7afe36fda
3.	userID	Object ID	User's Id	672f9f9b3a836de1632e689d
4.	Competed Videos	Array	Subsection's ID	[672f9fbb3a836de1632e68ac, 672f9fbb3a836de1632e68ac]

6. OTP

No.	Name	Type	Description	Example
1.	_id	Object ID	Unique ID	67359292554901b1d3ac3aab
2.	Otp	String	Unique OTP	910099
3.	email	String	Email which otp send	neeldesaioc@gmail.com
4.	createdAt	Date	Otp creation date	2024-11-14T06:02:58.749+00:00

7. Profile

No.	Name	Type	Description	Example
1.	_id	Object ID	Unique ID	672f9e303a836de1632e6875
2.	gender	String	User's Gender	Male
3.	dob	Date	Users' Date of birth	2024-07-11T00:00:00.000+00:00
4.	about	String	User's About	CEO Of Eduverse
5.	contactNumber	String	User's Contact Number	8160026509

8. Internship Application

No.	Name	Type	Description	Example
1.	_id	Object ID	Internship id	672f9e303a836de1632e6875
2.	Full name	String	Student Full name	John Doe
3.	email	String	Student email	joh@eduverse.com
4.	phone	String	Student phone	8160026509
5.	University	String	Student University	CHARUSAT
6.	degreeProgram	String	Student Degree Program	MCA
7.	yearOfStudy	String	Student Year Of Study	2028
8.	Gpa	String	Student GPA	9.8
9.	desiredRole	String	Student Desired Role	Data Science

10.	internshipDuration	Number	Student's Internship Duration (months)	3
11.	Skills	String	Student's Skills	Ai/ML
12.	motivation	String	Students' Motivation	Dhaval Chhayla
13.	terms	Boolean	Terms for internship	True

9. Review

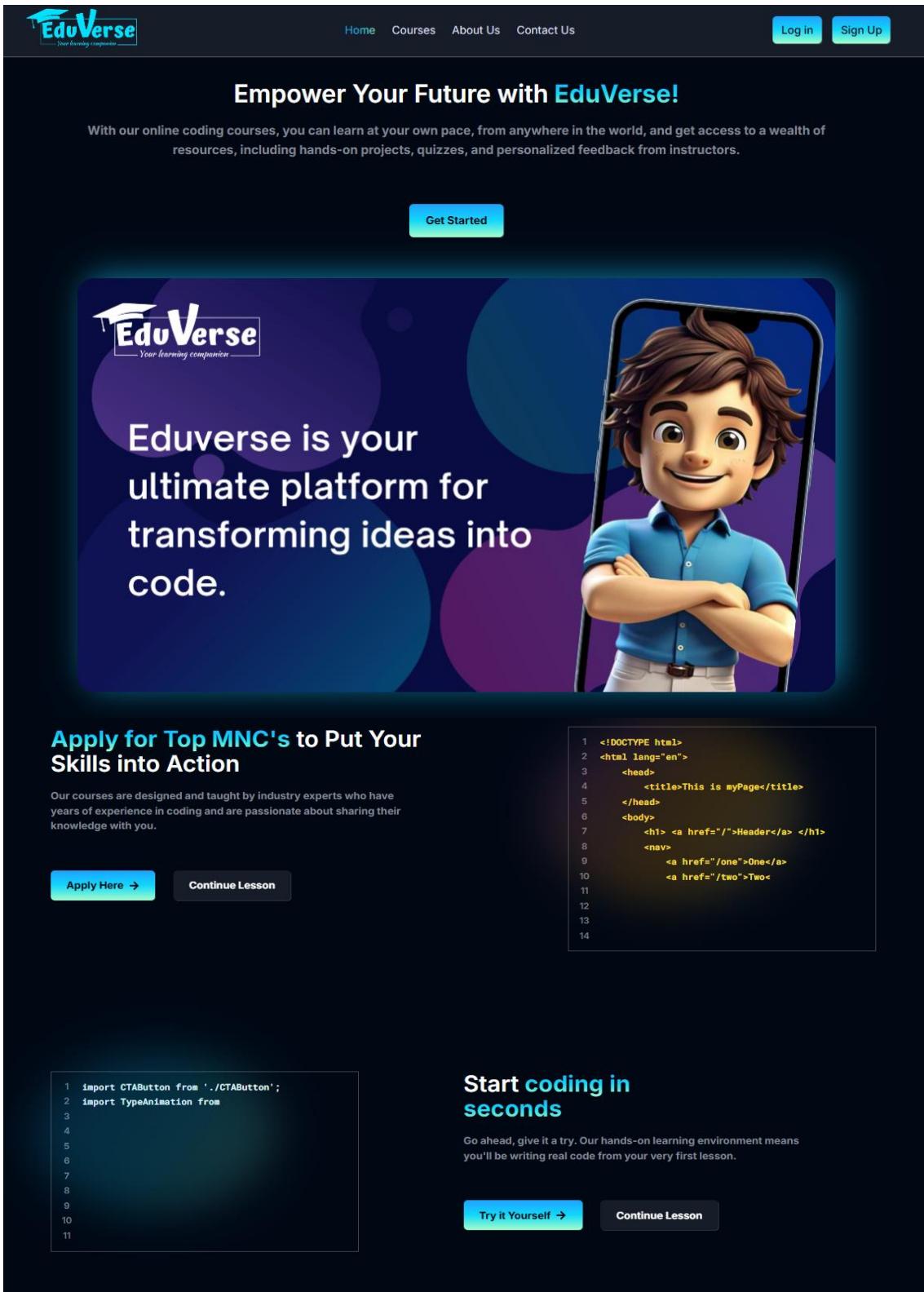
No.	Name	Type	Description	Example
1.	_id	Object ID	Internship id	672fa2de6fcf93a7afe36ffd
2.	Review	String	Review	Extraordinary Course
3.	Rating	Number	Rating	5
4.	User	Object ID	User's ID	672fa27a6fcf93a7afe36fb2
5.	Course	Object ID	Course's ID	672f9f9b3a836de1632e689d
6.	createdAt	Date	Date created at	2024-11-09T17:58:54.697+00:00

10. Certificate

No.	Name	Type	Description	Example
1.	_id	Object ID	Internship id	6733c88936a9349edeaa0cbaa
2.	name	String	Student Name	Dhaval Chhayla
3.	course	String	Course Name	Python
4.	email	String	Student Email	john@dhaval.com
5.	Status	String	Approve/Deny	Approve
6.	ApprovalDate	Date	Date of Approval	2024-11-12T21:29:03.895+00:00
7.	certificateLink	String	Link For Certificate	https://drive.google.com/file/d/11ddwvFReKdBPhU2ze93DXdWvAA9dSYfA/view

5.2 Screen Layouts

Home Page



The screenshot shows the EduVerse home page with a dark blue background. At the top, there's a navigation bar with the EduVerse logo, 'Home', 'Courses', 'About Us', 'Contact Us', 'Log In', and 'Sign Up' buttons. Below the navigation is a main banner with the heading 'Empower Your Future with EduVerse!' and a subtext about online coding courses. A large central image features a cartoon boy in a blue shirt standing next to a smartphone displaying the EduVerse logo. To the left of the phone, text reads: 'Eduverse is your ultimate platform for transforming ideas into code.' Below this section, there's a call-to-action button 'Get Started'. Further down, another section encourages users to 'Apply for Top MNC's to Put Your Skills into Action' with a subtext about industry experts. It includes 'Apply Here' and 'Continue Lesson' buttons. On the right side, there's a code editor window showing a snippet of HTML code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <title>This is myPage</title>
5   </head>
6   <body>
7     <h1> <a href="/">Header</a> </h1>
8     <nav>
9       <a href="/one">One</a>
10      <a href="/two">Two</a>
11    </nav>
12  </body>
13</html>
```

At the bottom, there's a 'Start coding in seconds' section with a 'Try it Yourself' button and a 'Continue Lesson' button.

Get the skills you need for a job
that is in demand.

The modern EduVerse is the dictates its own terms. Today, to be a competitive specialist requires more than professional skills.

[Learn More](#)



Leadership

Fully committed to the success company



Responsibility

Students will always be our top priority



Flexibility

The ability to switch is an important skills



Solve the problem

Code your way to a solution



Become an instructor

Instructors from around the world teach millions of students on StudyNotion. We provide the tools and skills to teach what you love.

[Start Teaching Today →](#)

Reviews from other learners



Dhaval Chhayla

AWS (Amazon Web Services)

This course gave me a deep dive into AWS services like EC2 and S3.

5 ★★★★★



Neel Desai

Flutter

If you're interested in cross-platform app development, this Flutter course is perfect!

5 ★★★★★



Dhaval Chhayla

HTML Mastery

This HTML course is perfect for beginners! I learned the core concepts quickly.

4 ★★★★☆



Neel Desai

Python for Data Science

This course provided good introduction to Python and its data science libraries.

3 ★★★☆☆

Code Editor

The screenshot shows a dark-themed code editor interface. At the top, there's a header with the EduVerse logo, a Python dropdown menu, a 'Dark' theme switch, and a 'Font Size' slider. Below the header, the code editor area contains the following Python code:

```
1 # Sample Python code
2 print('Hello, World!')
```

On the right side of the editor, there are two output panels: 'Input:' and 'Output:'. The 'Input:' panel is empty. The 'Output:' panel displays the result of the code execution: "Hello, World!". At the bottom of the editor, there are 'Run' and 'Clear' buttons.

MNC's Hiring Sheet

The screenshot shows an Excel spreadsheet titled 'IT Companies Hiring Sheet'. The table has columns labeled A through M. The data includes the following rows:

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Date of Job posting	Company Name	Job Role	Source link page	Job Location	Experience Required	Skills Required	Status					
2	15/11/2024	Refonte Learning	Jr Software Engineer Trainee	Link	Remote	Freshers can apply	Strong understanding of fundamentals of CS						
3	15/11/2024	Internaksha IT Solutions	Frontend Developer Intern	Link	Remote	Freshers can apply	HTML, CSS, JavaScript						
4	15/11/2024	Unified Mentor	Frontend Developer Intern	Link	Remote	Freshers can apply	HTML, CSS, JavaScript						
5	15/11/2024	Unified Mentor	Full Stack Web Developer Intern	Link	Remote	Freshers can apply	HTML, CSS, JavaScript						
6	15/11/2024	Internaksha IT Solutions	Web Development Intern	Link	Remote	Freshers can apply	HTML, CSS, JavaScript						
7	14/11/2024	Rubrik	Software Engineer - Winter Intern	Link	Bengaluru/Karnataka,IN	Freshers can apply	Strong understanding of fundamentals of CS and one of the coding language						
8	14/11/2024	Internaksha IT Solutions	Frontend Developer Intern	Link	Remote	Freshers can apply	HTML, CSS, JavaScript	No longer accepting applications					
9	14/11/2024	Unified Mentor	Frontend Developer Intern	Link	Remote	Freshers can apply	HTML, CSS, JavaScript						
10	14/11/2024	Internaksha IT Solutions	Web Development Intern	Link	Remote	Freshers can apply	HTML, CSS, JavaScript						
11	14/11/2024	GuideLite AI	Engineer Intern	Link	Chennai	Freshers can apply	MERN Stack						
12	13/11/2024	Juleo	Backend Developer - Intern	Link	Gurugram, Haryana, India	Freshers can apply	Basic fundamentals of CS						
13	13/11/2024	Internaksha IT Solutions	Frontend Developer Intern	Link	Remote	Freshers can apply	HTML, CSS, JavaScript	No longer accepting applications					
14	13/11/2024	Unified Mentor	Frontend Developer Intern	Link	Remote	Freshers can apply	HTML, CSS, JavaScript						
15	13/11/2024	Internaksha IT Solutions	Full Stack Developer Intern	Link	Remote	Freshers can apply	HTML, CSS, JavaScript						
16	13/11/2024												

At the bottom of the spreadsheet, there are tabs for 'Interns Hiring', 'Full Time Roles (Freshers)', 'Working Professionals', and 'Misc'.

Course Page

The screenshot shows the 'Available Courses' section of the EduVerse portal. It features four course cards with the following details:

- HTML Mastery** (EduVerse Portal): 3.5 stars, 2 Ratings, ₹ 200.
- Flutter** (EduVerse Portal): 5 stars, 1 Ratings, ₹ 250.
- AWS (Amazon Web Services)** (EduVerse Portal): 5 stars, 1 Ratings, ₹ 500.
- Python for Data Science** (EduVerse Portal): 3 stars, 1 Ratings, ₹ 450.

At the bottom, there are links for Privacy Policy, Cookie Policy, and Terms, along with the EduVerse logo and copyright information.

SignUp Page

The screenshot shows the sign-up form on the EduVerse portal. The form includes fields for First Name, Last Name, Email, Create Password, and Confirm Password. To the right, there is an illustration of a person interacting with a laptop and a smartphone, both displaying a user interface for account creation. A legend at the bottom left defines various password complexity requirements.

Join the millions learning to code with EduVerse for free

Build skills for today, tomorrow, and beyond. Education to future-proof your career.

First Name * Last Name *

Enter First Name Enter Last Name

Email *
Enter Email

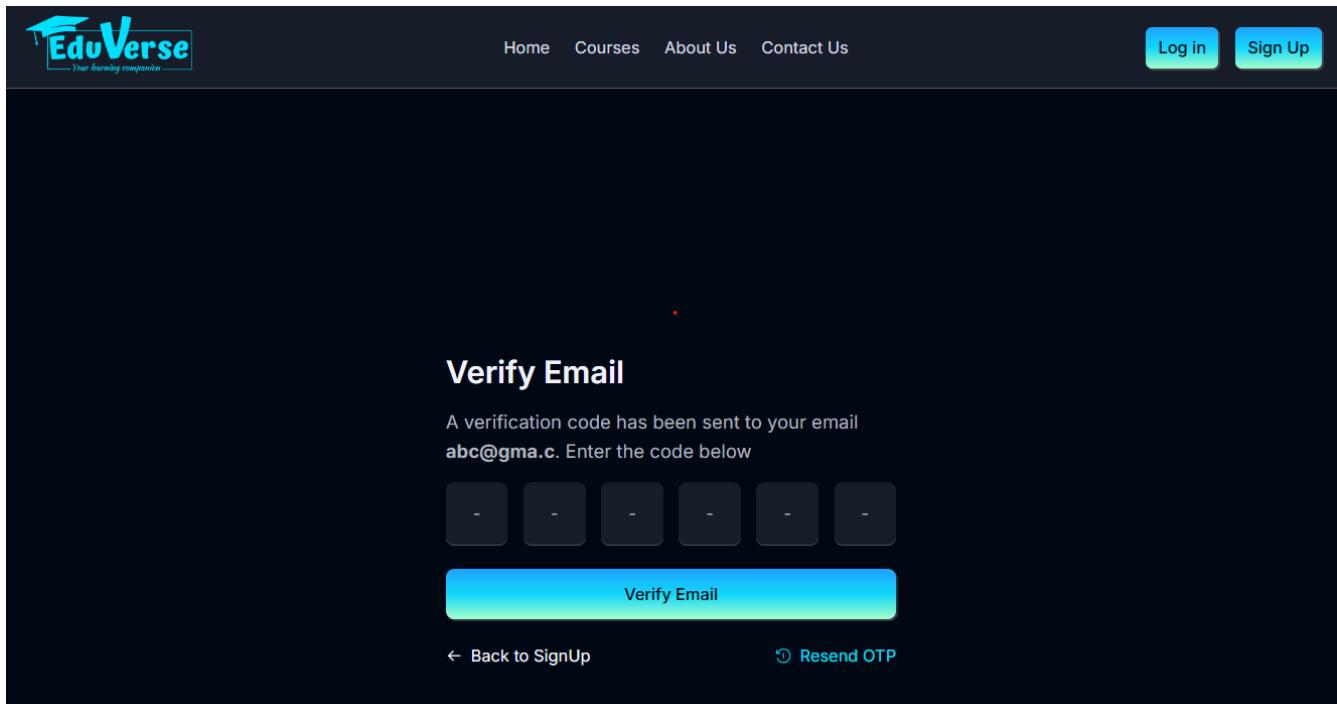
Create Password * Confirm Password *

Enter Password Confirm Password

○ One Lowercase Character ○ One Special Character
○ One Uppercase Character ○ 8 Character Minimum
○ One Number

Create Account

OTP Verification



The screenshot shows the OTP Verification page of the Eduverse eLearning Portal. At the top, there is a navigation bar with the EduVerse logo, Home, Courses, About Us, Contact Us, Log in, and Sign Up buttons. The main content area has a dark background with a light blue gradient bar at the bottom. The title "Verify Email" is centered. Below it, a message states: "A verification code has been sent to your email abc@gma.c. Enter the code below". There are six input fields for entering the OTP. A "Verify Email" button is located below the input fields. Navigation links "Back to SignUp" and "Resend OTP" are at the bottom.

Verify Email

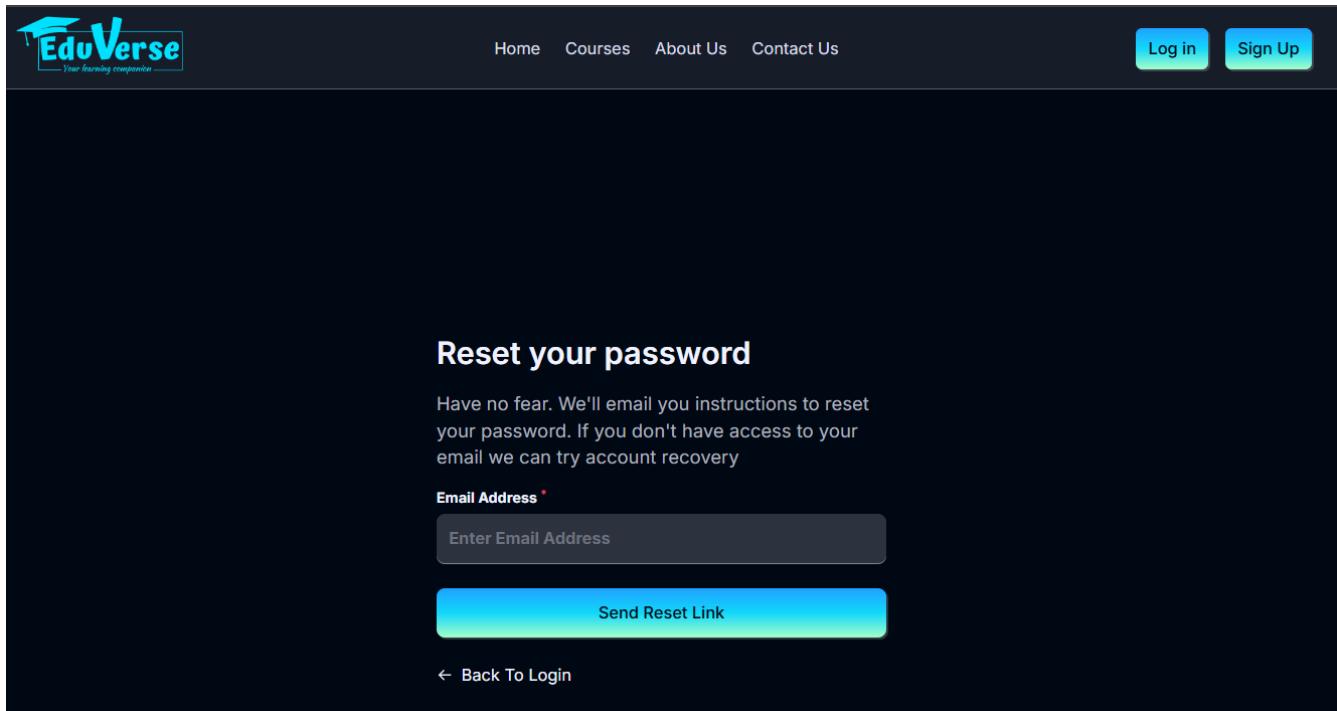
A verification code has been sent to your email
abc@gma.c. Enter the code below

- - - - -

Verify Email

← Back to SignUp Resend OTP

Reset Password Page



The screenshot shows the Reset Password page of the Eduverse eLearning Portal. At the top, there is a navigation bar with the EduVerse logo, Home, Courses, About Us, Contact Us, Log in, and Sign Up buttons. The main content area has a dark background with a light blue gradient bar at the bottom. The title "Reset your password" is centered. Below it, a message says: "Have no fear. We'll email you instructions to reset your password. If you don't have access to your email we can try account recovery". There is a form field labeled "Email Address *". A "Send Reset Link" button is located below the input field. Navigation links "Back To Login" and "Resend Link" are at the bottom.

Reset your password

Have no fear. We'll email you instructions to reset your password. If you don't have access to your email we can try account recovery

Email Address *

Enter Email Address

Send Reset Link

← Back To Login Resend Link

Login Page

Welcome Back

Build skills for today, tomorrow, and beyond.
Education to future-proof your career.

Email Address *

Password *

 Forgot Password

Sign In

About Us Page

Home Courses About Us Contact Us Log in Sign Up

Driving Innovation in Online Education for a Brighter Future

EduVerse is at the forefront of driving innovation in online education. We're passionate about creating a brighter future by offering cutting-edge courses, leveraging emerging technologies, and nurturing a vibrant learning community.

Neel Desai
Founder & CEO

[LinkedIn](#) [GitHub](#)

Dhaval Chhayla
Founder & CEO

[LinkedIn](#) [GitHub](#)

Visionary leader with a passion for education and technology

Brings extensive experience in educational content development

Contact Us Page

The screenshot shows the 'Contact Us' page of the Eduverse eLearning Portal. At the top, there is a navigation bar with links for Home, Courses, About Us, Contact Us, Log in, and Sign Up. On the left side, there is a sidebar with three sections: 'Chat on us' (with a message icon), 'Visit us' (with a location pin icon), and 'Call us' (with a phone icon). The main content area has a heading 'Got a Idea? We've got the skills. Let's team up' followed by a text input field asking for more details. Below that are fields for First Name, Last Name, Email Address, Phone Number, and a large Message input area. A blue 'Send Message' button is at the bottom right of the form.

Student Profile

The screenshot shows the 'My Profile' section of the Eduverse Student Profile. The left sidebar includes links for My Profile (which is active and highlighted in blue), Enrolled Courses, Cart, Internship Application, Settings, and Logout. The main content area displays the user's profile information: a circular profile picture of a person, the name 'Dhaval Chhayla', and the email '23mca022@charusat.edu.in'. There is also an 'Edit' button. Below this is an 'About' section with a placeholder text 'Write Something About Yourself' and an 'Edit' button. At the bottom is a 'Personal Details' section showing 'First Name: Dhaval' and 'Last Name: Chhayla', with an 'Edit' button next to it.

Student Enrolled Course

The screenshot shows the 'Enrolled Courses' section of the EduVerse portal. On the left, there's a sidebar with options like 'My Profile', 'Enrolled Courses' (which is selected and highlighted in blue), 'Cart', 'Internship Application', 'Settings', and 'Logout'. The main content area has a title 'Enrolled Courses' and a table with three columns: 'Course Name', 'Duration', and 'Progress'. There are two entries:

Course Name	Duration	Progress
HTML Mastery Master the art of HTML and learn how to create cle...	13 m 59 s	Progress : 33.33 % <div style="width: 33.33%;"></div>
AWS (Amazon Web Services) Learn to use AWS cloud services for building scala...	14 m 35 s	Progress : 100 % <div style="width: 100%;"></div> Get Certificate

Student Cart

The screenshot shows the 'Cart' section of the EduVerse portal. The sidebar is identical to the previous one. The main content area has a title 'Cart' and a message '2 Courses in Cart'. It lists two items:

	Flutter Mobile Development 5 ★★★★★ 1 Ratings	<input type="button" value="Remove"/> ₹ 250
	Python for Data Science Data Science 3 ★★★☆☆ 1 Ratings	<input type="button" value="Remove"/> ₹ 450

To the right, there's a summary box with 'Total : ₹ 700' and a 'Buy Now' button.

Student Internship Application



The EduVerse logo features the word "EduVerse" in a stylized blue font with a graduation cap icon above the letter "e". Below it, the tagline "Your Learning Experience" is written in a smaller, sans-serif font.

Home Courses About Us Contact Us

Profile icon with a notification badge showing '2'.

Internship Application Form

Full Name *
Dhaval Chhayla

Email Address *
23mca022@charusat.edu.in

Phone Number *
Phone Number

Institution/University *
Institution/University

Degree Program *
Degree Program

Passing Year *
Passing Year

GPA (optional)
GPA (optional)

Internship Domain *
Web Development

Internship Duration (Months) *
1

Skills *
Key Skills

Why are you interested? *
Your motivation

I agree to the terms and conditions *

Submit Application

Student Edit Profile Page

The screenshot shows the 'Edit Profile' page. On the left sidebar, 'Settings' is selected. The main area displays 'Profile Information' with fields for First Name (Dhaval), Last Name (Chhayla), Date of Birth (dd/mm/yyyy), Gender (Male), Contact Number (Enter contact number), and About (Enter Bio Details). A 'Change Profile Picture' section includes a placeholder image of a person, a 'Select' button, and an 'Upload' button.

The screenshot shows the 'Settings' page. It features a 'Password' section with fields for 'Current Password' and 'New Password'. Below this is a 'Delete Account' section with a trash bin icon, a question about deleting the account, a note about paid courses, and a button to 'I want to delete my account'.

Course Detail Page

 EduVerse
Your learning companion

Home Courses About Us Contact Us 

Flutter

Learn how to build beautiful and performant cross-platform mobile applications with Flutter.

5 ★★★★★ (1 ratings) 1 students

Created by EduVerse Portal

Created at November 15, 2024 | 01:07 PM • English



₹ 250

[Buy Now](#)

[Add to Cart](#)

30-Day Money-Back Guarantee

This Course Includes :

- Basic understanding of programming concepts
- Familiarity with mobile app development is helpful

[Share](#)

What you will learn

Master Flutter for building native apps for iOS and Android. Learn the Dart programming language for Flutter development. Build responsive and customizable user interfaces. Gain hands-on experience with mobile app development tools.

Course Content

3 section(s) • 6 lectures • 15 m 41 total length [Expand all sections](#)

> Introduction to Flutter	2 lecture(s)
> Dart Programming Language	2 lecture(s)
> Flutter Widgets and UI Design	2 lecture(s)

Author

 EduVerse Portal

Payment Gateway

The screenshot shows the EduVerse payment gateway interface. At the top, there's a navigation bar with links to Home, Courses, About Us, and Contact Us. A 'Test Mode' indicator is visible in the top right corner. The main area displays a course summary for 'Flutter' with a price of ₹250. Below this, a large 'Payment Options' section is shown, featuring a QR code for UPI payments and links to various banking and payment methods.

Course Content Page

The screenshot shows the EduVerse course content page for 'HTML Mastery'. The left sidebar lists course modules: 'Introduction to HTML' (with 'What is HTML?' checked), 'Setting Up Your First HTML Page', 'HTML Elements and Attributes', and 'Advanced HTML Elements'. The main content area features a video player with a play button, volume control, and progress bar (0:02 / 2:14). A large circular icon with '</>' symbols is displayed above the video. Below the video, the title 'What is HTML?' is shown, followed by a brief description: 'Learn the purpose of HTML in web development and understand the basic structure of an HTML document.'

Add Reviews Page

The screenshot shows a dark-themed user interface for adding a review. At the top, there's a navigation bar with links for Home, Courses, About Us, and Contact Us. On the left, a sidebar lists course categories like HTML, CSS, JavaScript, etc. A central modal window is titled "Add Review". It displays a profile picture of "Dhaval Chhayla" and the option "Posting Publicly". Below this is a five-star rating. A text input field is labeled "Add Your Experience *". A placeholder text in the field says "Share Details of your own experience for this course". At the bottom of the modal are two buttons: "Cancel" and "Save", with "Save" highlighted in blue.

Get Certificate Page

The screenshot shows a dark-themed user interface for getting a certificate. At the top, there's a navigation bar with links for Home, Courses, About Us, and Contact Us. On the left, a sidebar lists user profile information and course-related links like Enrolled Courses, Cart, and Internship Application. The main content area is titled "Get Your Certificate". It has three input fields: "Name" (Dhaval Chhayla), "Course" (AWS (Amazon Web Services)), and "Email" (23mca022@charusat.edu.in). A large blue button at the bottom is labeled "Get Certificate".

Admin Profile Page

The screenshot shows the 'My Profile' section of the EduVerse Admin Profile Page. It features a sidebar with navigation links like 'My Profile', 'Dashboard', 'All Courses', 'Add Course', 'Certificate Approval', 'Settings', and 'Logout'. The main area has three edit sections: 'EduVerse Portal' (Email: eduvers.portal@gmail.com), 'About' (Text area placeholder: Write Something About Yourself), and 'Personal Details' (First Name: EduVerse, Last Name: Portal). Each section includes an 'Edit' button.

Admin Dashboard Page

The screenshot shows the Admin Dashboard Page. It features a sidebar with navigation links like 'My Profile', 'Dashboard', 'All Courses', 'Add Course', 'Certificate Approval', 'Settings', and 'Logout'. The main area displays 'Hi, EduVerse' and a message 'Let's start something new'. It includes a 'Statistics' section with counts for Total Courses (4), Total Students (5), and Total Income (₹ 1600). To the right is a 'Visualize' section with tabs for 'Students' and 'Income'. The 'Income' tab shows a pie chart with four segments: HTML Mastery (yellow), Flutter (orange), AWS (Amazon Web Services) (blue), and Python for Data Science (green).

Admin All Courses Page

The screenshot shows the 'My Courses' section of the Eduverse admin interface. On the left, a sidebar menu includes 'All Courses' (which is selected and highlighted in blue), 'Add Course', and 'Certificate Approval'. The main area displays two courses in a table:

COURSE		DURATION	PRICE	ACTIONS
 HTML Mastery : Master the art of HTML and learn how to create clean, semantic web pages from scratch. Created: November 15, 2024 00:44 PM Published	13 m 59 s	₹ 200	 	
 Flutter : Learn how to build beautiful and performant cross-platform mobile applications with Flutter. Created: November 15, 2024 01:07 PM Published	15 m 41 s	₹ 250	 	

Certificate Approval Page

The screenshot shows the 'Pending Requests' and 'Issued Certificates' sections of the Eduverse admin interface. On the left, a sidebar menu includes 'Certificate Approval' (which is selected and highlighted in blue), 'Add Course', and 'Logout'. The main area displays two sections:

Pending Requests

Name	Course	Email	Actions
Neel Desai	Flutter	23mca028@charusat.edu.in	

Issued Certificates

Name	Course	Email	Certificate Link
Dhaval Chhayla	AWS (Amazon Web Services)	23mca022@charusat.edu.in	View Certificate

Add Course Page

The screenshot shows the 'Add Course' page of the EduVerse eLearning Portal. At the top, there's a navigation bar with the EduVerse logo, Home, Courses, About Us, Contact Us, and a user icon. Below the navigation, the main title 'Add Course' is displayed, followed by a progress bar with three steps: 'Course Information' (step 1), 'Course Builder' (step 2), and 'Publish' (step 3). The main content area is titled 'Add Course' and contains several input fields:

- Course Title ***: A text input field with placeholder 'Enter Course Title'.
- Course Short Description ***: A text input field with placeholder 'Enter short Description'.
- Enter Course Price ***: A text input field with placeholder 'Enter Course Price'.
- Course Category ***: A dropdown menu with placeholder 'Choose a Category'.
- Tags ***: A text input field with placeholder 'Enter tags and press Enter'.
- Add**: A button to add more tags.
- Course Thumbnail ***: A file upload section with a placeholder 'Drag and drop an Image, or click to Browse file'. It also specifies 'Aspect ratio 16:9' and 'Recommended size 1024x576'.
- Benefits of the course ***: A text input field with placeholder 'Enter benefits of the course'.
- Requirements/Instructions ***: A text input field with placeholder 'Add Course Requirements/Instructions'.
- Add**: A button to add more requirements.

On the right side, there's a sidebar titled 'Course Upload Tips' with the following bullet points:

- Set the Course Price option or make it free.
- Standard size for the course thumbnail is 1024x576.
- Video section controls the course overview video.
- Course Builder is where you create & organize a course.
- Add Topics in the Course Builder section to course lessons.
- Information from the Additional Data section shows up on the course single page.
- Make Announcements to notify any important news to all enrolled students at once.

A 'Next >' button is located at the bottom right of the main form area.

Course Builder Page

The screenshot shows the 'Add Course' interface. On the left sidebar, 'Add Course' is highlighted. The main area has three steps: 'Course Information' (completed), 'Course Builder' (current step, indicated by a blue circle with the number 2), and 'Publish'. A 'Course Builder' section contains a 'Section Name' input field with placeholder text 'Add a section to build course', a 'Create Section' button, and navigation buttons 'Back' and 'Next'. To the right is a 'Course Upload Tips' box with the following points:

- Set the Course Price option or make it free.
- Standard size for the course thumbnail is 1024x576.
- Video section controls the course overview video.
- Course Builder is where you create & organize a course.
- Add Topics in the Course Builder section to create lessons.
- Information from the Additional Data section shows up on the course single page.
- Make Announcements to notify any important notes to all enrolled students at once.

Add Lecture Page

The screenshot shows the 'Adding Lecture' dialog box. The left sidebar has 'Add Course' selected. The dialog fields include:

- Lecture Video**: A placeholder with a 'Browse' button and instructions: 'Drag and drop an video, or click to Browse file'. It also specifies 'Aspect ratio 16:9' and 'Recommended size 1024x576'.
- Lecture Title**: An input field with placeholder text 'Enter Lecture Title'.
- Lecture Description**: An input field with placeholder text 'Enter Lecture Description'.

A 'Save' button is located at the bottom right of the dialog.

Course Confirmation Page

The screenshot shows the 'Add Course' section of the Eduverse platform. On the left, a sidebar includes links for 'My Profile', 'Dashboard', 'All Courses', '+ Add Course' (which is highlighted in blue), and 'Certificate Approval'. The main area has a title 'Add Course' with three steps: 'Course Information' (checkmark), 'Course Builder' (checkmark), and 'Publish' (step 3). A 'Publish Settings' box contains a checked checkbox for 'Make this course as public' and a 'Save Changes' button. To the right, a 'Course Upload Tips' box lists several guidelines.

Certificate



OTP Email



OTP Verification Email

Dear User,

Thank you for registering with Eduverse. To complete your registration, please use the following OTP (One-Time Password) to verify your account:

401065

This OTP is valid for 5 minutes. If you did not request this verification, please disregard this email. Once your account is verified, you will have access to our platform and its features.

If you have any questions or need assistance, please feel free to reach out to us at eduverse.portal@gmail.com. We are here to help!

Account Created Email



Welcome to Eduverse! 🎉

Dear Dhaval Chhayla,

Congratulations! Your account has been successfully created on Eduverse, and we're thrilled to have you join our community.

Get started by logging into your dashboard and exploring our resources.

[Go to Dashboard](#)

Happy learning!

Need help? Contact us at eduverse.portal@gmail.com. We're here to assist you!

Payment Conformation Email



Course Payment Confirmation

Dear Dhaval Chhayla,

We have successfully received your payment of ₹200.

Your Payment ID is **pay_PLVYyzK3NNhp0S**

Your Order ID is **order_PLVYUCpdIcgdwo**

Thank you for your payment! We appreciate your promptness and look forward to providing you with an excellent learning experience. Should you need any assistance, feel free to contact us anytime.

If you have any questions or need assistance, please feel free to reach out to us at eduverse.portal@gmail.com. We are here to help!

Course Enrollment Email



Course Registration Confirmation

Dear Dhaval Chhayla,

You have successfully registered for the course "**HTML Mastery**". We are excited to have you as a participant!

Please log in to your learning dashboard to access the course materials and start your learning journey.

[Go to Dashboard](#)

If you have any questions or need assistance, please feel free to reach out to us at eduvers.portal@gmail.com. We are here to help!

Password Reset Email



Password Reset for Dhaval Chhayla

You are receiving this email because you (or someone else) have requested a password reset for your Eduverse account.

If you made this request, please click the button below to reset your password:

[Reset Password](#)

If you did not request this change, you can ignore this email.

Contact Us Email (User Side)



Contact Form Confirmation

Name: Dhaval Chhayla

Email: dhavalchhayla@gmail.com

Phone Number: +91 1234567890

Message: HY

...

Contact Us Email (Admin Side)

EduVerse | EduVerse <eduvers.portal@gmail.com>
to me ▾

Someone requested to contact you

Contact Details

Name : Dhaval Chhayla

Email : dhavalhchhayla@gmail.com

Phone No : +91 1234567890

Message : HY

Kindly contact them, and solve their problem as soon as possible.

Thank You !

Certificate Access Email

Certificate for AWS (Amazon Web Services) External Inbox x

eduvers.portal@gmail.com
to me ▾

Dear Dhaval Chhayla,

Your certificate for the course "AWS (Amazon Web Services)" has been approved.

You can download your certificate here: <https://drive.google.com/file/d/1xHf4e3XhiH1GD3fbCVlYqlzKPSM2xXXN/view>

Best regards,
EduVerse

One attachment • Scanned by Gmail ⓘ



SYSTEM TESTING

6.1 Testing Strategies

- **White Box Testing**

White box testing (WBT) is also called Structural or Glass box testing. White box testing involves looking at the structure of the code. When you know the internal structure of a product, tests can be conducted to ensure that the internal operations performed according to the specification. And all internal components have been adequately exercised.

- Why we do White Box Testing?

To ensure:

- That all independent paths within a module have been exercised at least once.
- All logical decisions verified on their true and false values.
- All loops executed at their boundaries and within their operational bounds internal data structures validity.

- Need of White Box Testing?

To discover the following types of bugs:

- Logical error tends to creep into our work when we design and implement functions, conditions or controls that are out of the program.
- he designs errors due to difference between logical flow of the program and the actual implementation
- Typographical errors and syntax checking

- **Black Box Testing**

Black box testing (BBT) is a software testing technique that focuses on the functionality of the software without examining its internal code or structure. In black box testing, the tester has no knowledge of the internal workings of the software being tested. Instead, the tester interacts with the software as an end user would, using inputs and examining outputs to verify that the software behaves as expected.

- Why we do Black Box Testing?

To ensure:

- The software meets the specified requirements and functional specifications.
- The software is compatible with other systems and devices it interacts with.
- The software behaves correctly and produces expected outputs under a variety of conditions and scenarios.
- The software is user-friendly and meets the needs of the intended users.

- Need of Black Box Testing?

To discover the following types of bugs:

- Functional errors that prevent the software from performing its intended tasks.
- User interface issues such as unclear or confusing instructions, poor layout or design, and difficulties in navigation.
- Performance issues such as slow response times or crashes.
- Compatibility issues when integrating with other systems or devices

5.2 Test Cases

Case No.	Function	Input Values	Expected Output	Actual Output	Remark
1.	FirstName	Neel	Neel	Neel	PASS
2.	LastName	Desai	Desai	Desai	PASS
3.	Email	23mca028@charusat.edu.in	23mca028@charusat.edu.in	23mca028@charusat.edu.in	PASS
4.	Password	Encrypted	Encrypted	Encrypted	PASS
5.	Role	admin	admin	admin	PASS
6.	Avatar	https://api.dicebear.com/5.x/initials/svg?seed=Neel%20Desai	https://api.dicebear.com/5.x/initials/svg?seed=Neel%20Desai	https://api.dicebear.com/5.x/initials/svg?seed=Neel%20Desai	PASS
7.	Profile	672f9e303a836de1632e6875	672f9e303a836de1632e6875	672f9e303a836de1632e6875	PASS
8.	Courses	[672f9f9b3a836de1632e689d, 67338a02d35ada9fd7c560bf]	[672f9f9b3a836de1632e689d, 67338a02d35ada9fd7c560bf]	[672f9f9b3a836de1632e689d, 67338a02d35ada9fd7c560bf]	PASS
9.	Course Progress	672fa2c86fcf93a7afe36fda	672fa2c86fcf93a7afe36fda	672fa2c86fcf93a7afe36fda	PASS
10.	createdAt	2024-11-09T17:57:14.776+00:00	2024-11-09T17:57:14.776+00:00	2024-11-09T17:57:14.776+00:00	PASS
11.	updatedAt	2024-11-12T17:48:28.278+00:00	2024-11-12T17:48:28.278+00:00	2024-11-12T17:48:28.278+00:00	PASS

12.	resetPasswordExpire	2024-11-12T17:58:28.275+00:00	2024-11-12T17:58:28.275+00:00	2024-11-12T17:58:28.275+00:00	PASS
13.	resetPasswordToken	eaef1c8f6a83a98ed0f1702284fe5cb5d2fc78a80bf808aca491419ed33a7df9	eaef1c8f6a83a98ed0f1702284fe5cb5d2fc78a80bf808aca491419ed33a7df9	eaef1c8f6a83a98ed0f1702284fe5cb5d2fc78a80bf808aca491419ed33a7df9	PASS
14.	Reviews	[672f9f9b3a836de16e1632e689d, 67338a02d35ada9fd7c560bf]	[672f9f9b3a836de1632e689d, 67338a02d35ada9fd7c560bf]	[672f9f9b3a836de1632e689d, 67338a02d35ada9fd7c560bf]	PASS
15.	Title	HTML	HTML	HTML	PASS
16.	Description	Learn Basics of HTML	Learn Basics of HTML	Learn Basics of HTML	PASS
17.	What you will learn	Basics	Basics	Basics	PASS
18.	Instructor	672f9e303a836de1632e6877	672f9e303a836de1632e6877	672f9e303a836de1632e6877	PASS
19.	Price	500	500	500	PASS
20.	Tags	[html, webdev]	[html, webdev]	[html, webdev]	PASS
21.	Thumbnail	https://res.cloudinary.com/dqd4sg47k/image/upload/v1731174265/EduVerse	https://res.cloudinary.com/dqd4sg47k/image/upload/v1731174265/EduVerse	https://res.cloudinary.com/dqd4sg47k/image/upload/v1731174265/EduVerse	PASS

22.	Category	App Development	App Development	App Development	PASS
23.	averageRating	4	4	4	PASS
24.	numberofEnrolledStudents	5	5	5	PASS
25.	Sections	[672f9fa03a836de1632e68a6, 672f9fa03a836de1632e58a7]	[672f9fa03a836de1632e68a6, 672f9fa03a836de1632e58a7]	[672f9fa03a836de1632e68a6, 672f9fa03a836de1632e58a7]	PASS
26.	totalDuration	326.751202	326.751202	326.7512	PASS
27.	studentsEnrolled	[672f9fa03a836de1632e68a6, 672f9fa03a836de1632e58a7]	[672f9fa03a836de1632e68a6, 672f9fa03a836de1632e58a7]	[672f9fa03a836de1632e68a6, 672f9fa03a836de1632e58a7]	PASS
28.	Instructions	[complete course, Get Certificate]	[complete course, Get Certificate]	[complete course, Get Certificate]	PASS
29.	Status	Published	Published	Published	PASS
30.	title	Section1	Section1	Section1	PASS
31.	course	672f9f9b3a836de1632e689d	672f9f9b3a836de1632e689d	672f9f9b3a836de1632e689d	PASS
32.	user	672f9fa03a836de1632e68a6	672f9fa03a836de1632e68a6	672f9fa03a836de1632e68a6	PASS

33.	subSections	[672f9e303a836de1632e6877, 672f9fa03a836de1632e68a6]	[672f9e303a836de1632e6877, 672f9fa03a836de1632e68a6]	[672f9e303a836de1632e6877, 672f9fa03a836de1632e68a6]	PASS
34.	title	Lecture 1	Lecture 1	Lecture 1	PASS
35.	timeDuration	134.745397	134.745397	134.7454	PASS
36.	description	Fundamental of HTML	Fundamental of HTML	Fundamental of HTML	PASS
37.	videoUrl	https://res.cloudinary.com/dqd4sg47k/video/upload/v1731174285/EduVerse	https://res.cloudinary.com/dqd4sg47k/video/upload/v1731174285/EduVerse	https://res.cloudinary.com/dqd4sg47k/video/upload/v1731174285/EduVerse	PASS
38.	user	672f9e303a836de1632e6877	672f9e303a836de1632e6877	672f9e303a836de1632e6877	PASS
39.	section	672f9fa03a836de1632e68a6	672f9fa03a836de1632e68a6	672f9fa03a836de1632e68a6	PASS
40.	courseId	672fa2c86fcf93a7afe36fda	672fa2c86fcf93a7afe36fda	672fa2c86fcf93a7afe36fda	PASS
41.	userID	672f9f9b3a836de1632e689d	672f9f9b3a836de1632e689d	672f9f9b3a836de1632e689d	PASS

42.	Completed Videos	[672f9fbb3a836de1632e68ac, 672f9fbb3a836de1632e68ac]	[672f9fbb3a836de1632e68ac, 672f9fbb3a836de1632e68ac]	[672f9fbb3a836de1632e68ac, 672f9fbb3a836de1632e68ac]	PASS
43.	Otp	910099	910099	910099	PASS
44.	email	neeldesaioc@gmail.com	neeldesaioc@gmail.com	neeldesaioc@gmail.com	PASS
45.	createdAt	2024-11-14T06:02:58.749+00:00	2024-11-14T06:02:58.749+00:00	2024-11-14T06:02:58.749+00:00	PASS
46.	gender	Male	Male	Male	PASS
47.	dob	2024-07-11T00:00:00.000+00:00	2024-07-11T00:00:00.000+00:00	2024-07-11T00:00:00.000+00:00	PASS
48.	about	CEO Of Eduverse	CEO Of Eduverse	CEO Of Eduverse	PASS
49.	contactNumber	8160026509	8160026509	8.16E+09	PASS
50.	_id	672f9e303a836de1632e6875	672f9e303a836de1632e6875	672f9e303a836de1632e6875	PASS
51.	Full Name	John Doe	John Doe	John Doe	PASS
52.	email	joh@eduverse.com	joh@eduverse.com	joh@eduverse.com	PASS
53.	phone	8160026509	8160026509	8.16E+09	PASS
54.	University	CHARUSAT	CHARUSAT	CHARUSAT	PASS
55.	degreeProgram	MCA	MCA	MCA	PASS
56.	yearOfStudy	2028	2028	2028	PASS
57.	GPA	9.8	9.8	9.8	PASS
58.	desiredRole	Data Science	Data Science	Data Science	PASS
59.	internshipDuration	3	3	3	PASS

60.	Skills	Ai/MI	Ai/MI	Ai/MI	PASS
61.	motivation	Dhaval Chhayla	Dhaval Chhayla	Dhaval Chhayla	PASS
62.	terms	TRUE	TRUE	TRUE	PASS
63.	Review	Extraordinary Course	Extraordinary Course	Extraordinary Course	PASS
64.	Rating	5	5	5	PASS
65.	User	672fa27a6fcf93a7afe36fb2	672fa27a6fcf93a7afe36fb2	672fa27a6fcf93a7afe36fb2	PASS
66.	Course	672f9f9b3a836de1632e689d	672f9f9b3a836de1632e689d	672f9f9b3a836de1632e689d	PASS
67.	createdAt	2024-11-09T17:58:54.697+00:00	2024-11-09T17:58:54.697+00:00	2024-11-09T17:58:54.697+00:00	PASS
68.	name	Dhaval Chhayla	Dhaval Chhayla	Dhaval Chhayla	PASS
69.	course	Python	Python	Python	PASS
70.	email	john@dhaval.com	john@dhaval.com	john@dhaval.com	PASS
71.	status	Approve	Approve	Approve	PASS
72.	Approvaldate	2024-11-12T21:29:03.895+00:00	2024-11-12T21:29:03.895+00:00	2024-11-12T21:29:03.895+00:00	PASS
73.	certificateLink	https://drive.google.com/file/d/11ddwvFReKdBPhU2ze93DXdWvAA9dSYfA/view	https://drive.google.com/file/d/11ddwvFReKdBPhU2ze93DXdWvAA9dSYfA/view	https://drive.google.com/file/d/11ddwvFReKdBPhU2ze93DXdWvAA9dSYfA/view	PASS

FUTURE ENHANCEMENT

6.0 Future enhancements

- 1. Mobile Application Development:** Create a mobile app version of the portal for iOS and Android to provide users with easy access to courses on-the-go.
- 2. Gamification Features:** Implement gamification elements such as badges, leaderboards, and rewards for completing courses or quizzes to increase user engagement and motivation.
- 3. Social Learning:** Introduce social features that allow users to connect, discuss courses, and share experiences with peers through forums or chat functionalities.
- 4. Personalized Learning Paths:** Implement AI-driven personalized learning paths that recommend courses based on user preferences, learning styles, and progress.
- 5. Integration of Video Conferencing Tools:** Enable live classes or webinars by integrating video conferencing tools like Zoom or Microsoft Teams, allowing real-time interaction between instructors and students.
- 6. Integration of AI Tutors:** Utilize AI chatbots or virtual assistants to provide 24/7 support to users for queries related to courses, payments, or technical issues.
- 7. Certification Verification System:** Implement a system for third parties (like employers or other educational institutions) to verify the authenticity of certificates issued through the platform.
- 8. Integration with Job Portals:** Collaborate with job portals to provide users with job opportunities related to their completed courses, bridging the gap between education and employment.
- 9. Live Q&A Sessions:** Host regular live Q&A sessions with instructors or industry experts to engage users and provide them with real-time insights and answers.
- 10. Offline Mode:** Allow Students to download course content for offline course
- 11. Multilingual Support:** Implement multi-Language support to for different region students
- 12. Can have instructor role:** Can Have promotion of role

BIBLIOGRAPHY// REFERENCES

➤ **Web resources**

https://youtube.com/playlist?list=PLFmBehh3Qjxr5_cwDBybRyjt-0E0fObgM&si=k4cCRb8EqVM8JAeR
<https://vitejs.dev/guide/>
<https://react.dev/>
<https://expressjs.com/>
<https://nodejs.org/en>
https://www.w3schools.com/nodejs/nodejs_intro.asp
<https://www.w3schools.com/mongodb/>
<https://www.mongodb.com/>
<https://www.npmjs.com/package/bcrypt>
<https://www.npmjs.com/package/cors>
<https://www.npmjs.com/package/dotenv>
<https://www.npmjs.com/package/jsonwebtoken>
<https://mongoosejs.com/docs/>
<https://www.npmjs.com/package/multer>
<https://nodemailer.com/>
<https://www.npmjs.com/package/nodemailer>
<https://razorpay.com/docs/#home-payments>
<https://www.npmjs.com/package/nodemon>
<https://www.npmjs.com/package/@fortawesome/fontawesome-free>
<https://www.npmjs.com/package/axios>
<https://www.npmjs.com/package/react-dom>
<https://react-hot-toast.com/>
<https://www.npmjs.com/package/react-router-dom>