MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

Deemed to be University

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NAAC Accredited A++ with Grade

Project Report on

Development of E-Learning (Admin Module)

A project report submitted in partial fulfilment of the requirement for the degree of

MASTER OF COMPUTER APPLICATION

in

COMPUTER SCIENCE AND ENGINEERING

Submitted by:

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(0901CA221011)

Industry Mentor:

Sweety Gupta, (Praedico Global Research Pvt. Ltd.)

Faculty Mentor:

Dr. R.S. Jadon, Professor

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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Ref.: PGR-2024/P-4014

Date: 22-April-2024

To whom so ever it may concern

This is to certify that **Mr./Mrs./Miss. AMIT KOSHTA (0901CA221011)** student of MCA at MITS, Gwalior, has completed **Project** Training/Internship program as an online/offline trainee at our organization **PRAEDICO GLOBAL RESEARCH PVT. LTD.** Him/Her training details are:

Period - 01 JAN 2024 to 22 APR 2024

Technology – NODE JS with MONGODB

Project Title – E-LEARNING (ADMIN MODULE)

All of us at Praedico Global Research Pvt. Ltd. are pleased to have him/her in our team. This Project Training/Internship program includes training, orientation and focuses primarily on learning and developing new skills and gaining a deeper understanding of concepts through hands on application of the knowledge he/she learned.

We take this opportunity to wish him/her a long, happy and successful career.

For

Authorized Signatory

Praedico Global Research Pvt. Ltd.

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CERTIFICATE

This is to certify that **Amit Koshta** (0901CA221011) has submitted the project report titled **Development of E-Learning** under the mentorship of **Ms. Sweety Gupta** (Praedico Global Research **Private Limited),** in partial fulfilment of the requirement for the award of degree of **Master in Computer Application,** submitted department of Computer Science and Engineering, **Madhav Institute of Technology and Science, Gwalior.**

24/4/24

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Dept. of Computer Science and Engineering

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

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DECLARATION

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the minor project in 2nd year of Master of Computer Application in Computer Science and Engineering at **Madhav Institute of Technology & Science, Gwalior** is an authenticated and original record of my work under the mentorship of Ms. Sweety Gupta, Praedico Global Research Pvt. Ltd. Gwalior.

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.

Amit Koshta

0901CA221011

2022-2024

Master of Computer Application

Computer Science and Engineering

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ACKNOWLEDGEMENT

The full semester project has proved to be pivotal to my career. I am thankful to my, **Madhav Institute of Technology and Science** to allow me to continue my disciplinary project. I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

I would sincerely like to thank my department, **the Department of Computer Science and Engineering** for allowing me to explore this project. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved.

I would like to extend my heartfelt appreciation to **Sweety Gupta**, Project Mentor, Praedico Global Research Pvt. Ltd. for their exceptional mentorship, guidance, and assistance throughout the project. Their valuable inputs and feedback have helped me enhance my knowledge and skills. Their constant encouragement and support have been instrumental in the successful completion of this project.

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Amit Koshta

0901CA221011

2022-2024

Master of Computer Application

Computer Science and Engineering

ABSTRACT

The E-Learning project focuses on the developing an eLearning platform where students can easily access course content like recorded class, Notes and PPT's by paying a small fee. The platform aims to simplify the process of enrolling in various courses.

Students can choose from a variety of courses like technology, arts and designs, development, science, network, communication, marketing, programming etc. They can browse the course list, filter them based on their interests, select course they want to learn, and enrol in the course in the course by paying course fee.

The main objective of the project is to create a user-friendly interface that enhances the learning experience for students. Through the platform, students can access a wide range of courses across different subject by paying a nominal fee. Integration of a payment gateway ensures a smooth transaction process, facilitating easy course enrolment for students.

The platform offers administrators the functionality to effortlessly add new classes. The admin panel provides a simple interface for uploading course material, configuring course parameters, and managing student enrollments. This ensures that the platform remains dynamic and continuously updated with fresh course offering.

The eLearning platform prioritizes usability for students, ensuring intuitive and straightforward navigation through the website. The platform is designed to be mobile-responsive, allowing students to access course content conveniently from any device.

Overall, this project demonstrates the successful implementation of an eLearning platform that enhances the accessibility of course content for students while providing administrators with more efficient process for course management.

सार

ई-लर्निंग प्रोजेक्ट एक ई-लर्निंग प्लेटफॉर्म विकसित करने पर केंद्रित है जहां छात्र एक छोटी सी फीस का भुगतान करके रिकॉर्ड की गई कक्षा, नोट्स और पीपीटी जैसी पाठ्यक्रम सामग्री तक आसानी से पहुंच सकते हैं। मंच का उद्देश्य विभिन्न पाठ्यक्रमों में नामांकन की प्रक्रिया को सरल बनाना है।

छात्र प्रौद्योगिकी, कला और डिजाइन, विकास, विज्ञान, नेटवर्क, संचार, विपणन, प्रोग्रामिंग आदि जैसे विभिन्न पाठ्यक्रमों में से चुन सकते हैं। वे पाठ्यक्रम सूची ब्राउज़ कर सकते हैं, उन्हें अपनी रुचि के आधार पर फ़िल्टर कर सकते हैं, वह पाठ्यक्रम चुन सकते हैं जिसे वे सीखना चाहते हैं, और पाठ्यक्रम शुल्क का भुगतान करके पाठ्यक्रम में नामांकन करें।

परियोजना का मुख्य उद्देश्य एक उपयोगकर्ता-अनुकूल इंटरफ़ेस बनाना है जो छात्रों के लिए सीखने के अनुभव को बढ़ाता है। मंच के माध्यम से, छात्र मामूली शुल्क का भुगतान करके विभिन्न विषयों में पाठ्यक्रमों की एक विस्तृत श्रृंखला तक पहुंच सकते हैं। भुगतान गेटवे का एकीकरण एक सुचारू लेनदेन प्रक्रिया सुनिश्चित करता है, जिससे छात्रों के लिए आसान पाठ्यक्रम नामांकन की सुविधा मिलती है।

प्लेटफ़ॉर्म प्रशासकों को आसानी से नई कक्षाएं जोड़ने की कार्यक्षमता प्रदान करता है। व्यवस्थापक पैनल पाठ्यक्रम सामग्री अपलोड करने, पाठ्यक्रम पैरामीटर कॉन्फ़िगर करने और छात्र नामांकन प्रबंधित करने के लिए एक सरल इंटरफ़ेस प्रदान करता है। यह सुनिश्चित करता है कि प्लेटफ़ॉर्म गतिशील बना रहे और नए पाठ्यक्रम की पेशकश के साथ लगातार अपडेट होता रहे।

ई-लर्निंग प्लेटफ़ॉर्म छात्रों के लिए उपयोगिता को प्राथमिकता देता है, वेबसाइट के माध्यम से सहज और सीधा नेविगेशन सुनिश्चित करता है। प्लेटफ़ॉर्म को मोबाइल-रेस्पॉन्सिव बनाने के लिए डिज़ाइन किया गया है, जिससे छात्र किसी भी डिवाइस से पाठ्यक्रम सामग्री को आसानी से एक्सेस कर सकते हैं।

कुल मिलाकर, यह परियोजना एक ई-लर्निंग प्लेटफ़ॉर्म के सफल कार्यान्वयन को प्रदर्शित करती है जो छात्रों के लिए पाठ्यक्रम सामग्री की पहुंच को बढ़ाती है जबकि प्रशासकों को पाठ्यक्रम प्रबंधन के लिए अधिक कुशल प्रक्रिया प्रदान करती है।

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Chapter 1. Introduction

In the present time traditional learning methodologies, education is being reshaped by the computerized digital innovation. The coming of e-learning stages has altered the manner in which individuals access education, offering adaptability, availability, accessibility and scalability. Our project E-Learning aimed at the facilitating seamless interactions between administrators and students.

The essential target of E-Learning provides a natural e-learning platform that smoothes out the course management, enrollment, and access to educational materials. The platform will enable administrators to add courses, manage classes and its content, and oversee student enrollment. Additionally, registered students will have able to browse available courses, enroll in one or more desired courses by paying the selected course fees, and after paying fee, access the enrolled course's content.

Admins will have access to a dedicate panel where the can add course with the full details about the course like course objective, course acknowledgement, duration etc. and add the classes for the added courses which are displayed only for the enrolled students for the particular course.

Students will register on E-Learning website easily by filing the register form and for enroll the desired course students have to pay the course fee. After pay the course fee students have access the course content, classes.

- **Many courses category:**
  Students can browse all the available courses, filter them, and read about what they cover. There are many courses category in our website web development, programing, arts and design, science, network, communication, marketing etc.

- **Detailed course information:**
  All available courses are content all detailed information about the course like tutor, course acknowledgement, course fee, course duration, course objective etc.

- **Secure payment**
  It offers secure payment methods, protecting user's financial information. This convenience and security make online payment a trustworthy option while paying fee for enrolling course. The online transaction mode easy and secure.

1.1 Problem Identification

a) It's essential to thoroughly research and understand the interest, preference, and behaviour of the target to student's community the website accordingly.

b) Sometimes student face difficult to find desired course in the local institute of their local and it can be time consuming and effort-intensive to search for it.

c) registration process is user friendly. User can students by providing accurate details such as personal information, email id., contact number, address etc.

d) Regular updates of new courses and classes to reflect current registered, enrolled students and preference within the community.

e) our website boasts user friendly interface with everything properly categorized in courses, making it easy for students to navigate and find what they are looking for.

f) E-Learning can reach a broader education base, including courses in different categories. This expands reach can significantly increase the student's community base.

g) Ensuring secure payment processing and student data protection is crucial for gaining trust and retaining students.

h) Students can share their feedback about the E-Learning with simple and easy way and admin can check this activity on admin panel.

i) Ensuring that the website, payment system, and other technology are up to date and secure can be an ongoing challenge.

1.2 Parent Organization

Praedico Global Research Pvt. Ltd.: Revolutionize Financial Literacy in India

The traditional approach to forecasting stock trends relied heavily on the ability of traders or brokers to analyses market forces and available economic and company information. However, the inherent risks associated with the stock market demand a level of reasoning beyond human capability.

At Praedico Global Research Pvt. Ltd. is India's first "integrated global research cum training" organization which will work on the model of spreading "financial literacy" all across the globe and have our own research model for Indian and global stock exchanges. Praedico Global Research Pvt. Ltd. Thrives on deriving its own exclusive investment strategies and trains people to use them effectively. Praedico Global Research Pvt. Ltd. conducts financial workshops all across the globe and provides training on whole bouquet of financial products.

Our Vision - To be the bellwethers in eradicating financial discrepancy around the world by providing financial access to people who don't have money to access costly financial products.

Our Mission - To be the leader in financial products development world over. Products so developed should have highest performance and lowest fees in comparison to other financial products in the market.

1.3 Hardware and Software Specification

1.3.1 Hardware Specification

- **Disk Space:** 2 GB+
- **Web Server:** Localhost
- **Database:** MONGODB version 7.0.5 or greater
- **RAM:** 8GB
- **Node:** Version 20.11.0 or greater
- **Processor:** 1.0 GHZ+

It is recommended that your host supports Node Version 20.11.0 or above, MongoDB Version 7.0.5 or above, and HTTPS support. Localhost is a hostname that refers to the current device used to access it.

Localhost or any server for running website, but any server that supports MongoDB and Node will do.

If we only have older versions of Node & MongoDB, website also works with Node 0.90+ and MongoDB 3.0+, but our site may not run well.

Basic hardware requirements to run this project: -

1. Stable internet connection with speed up to 512 Kbps for every individual system.
2. And installation of any web browser.

1.3.2 Software Specification

1.3.2.1 Frontend-HTML/CSS/BOOTSRAP

For the frontend design, we have decided to use HTML, CSS, and Bootstrap due to the following reasons:

- **HTML**: Provides the structure for the web pages.
- **CSS**: Used for styling and layout of the web pages.

- **Bootstrap:** A free and open-source CSS framework, Bootstrap helps in creating responsive and mobile-first websites quickly and efficiently.

1.3.1.2 Backend-NodeJS

- For backend design we have decided to use NodeJS because: -

- NodeJS is an open source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser.
- Node.js offers an Easy Scalability.
- Easy to Learn.
- Node.js is used as a Single Programming Language.
- The Benefit of Full stack JS.
- Known for Offering High Performance.
- The Support of Large and Active Community.

1.3.1.3 Database-MONGODB

MongoDB is a source available cross-platform document-oriented database program classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas. Also: -

- Flexible Database.
- High Speed.
- High Availability.
- Scalability.
- Easy Environment Setup.
- Full Technical Support.

1.3.1.4 Framework-Express JS

Express JS is a backend web application framework for Node JS, released as free and open-source software under the MIT License. It is designed for building web Applications and API's. It has been called the defects standard server framework for Node JS. Also: -

- Scale our application quickly.
- JavaScript is simple to learn.
- We can use same language to code Frontend.
- Less developer cost to maintain the app.
- Supported by Google v8 engine.

1.3.1.5 Postman

Postman emerges as a critical tool for API testing and validation, crucial components in today's interconnected software ecosystem. Its intuitive allows developers to design, test and debug APIs effortlessly ensuring the reliability and scalability of software. It increases efficiency of testing, with features such as automatic testing, real time monitoring and collaboration capabilities.

Chapter 2. SYSTEM ANALYSIS

2.1 Problem Analysis

Fragmented Learning Experience:

Students may face difficulties when they have to rely on the physical resources or visit multiple institutes to access educational content. Traditional learning methods have limited leads whereas an E-Learning website can serve globally. Additionally, insufficient information about courses and learning materials may take a student hesitant to enroll. We target to provide detailed course description, including specifications, features and relevant criteria to address this issue.

Personalization Factor:

Many E-Learning platforms Lack of the ability to provide personalized recommendation and contain tailored to individual learning preference. As a result, Student may feel overload because the vast array of course option or missed out on the discovering course that desired with their interest. Our objective is to implement personalization features that suggest course based on the students' interest pass learning experiences, and popular topics thereby enhancing their learning journey.

Complexity of Registration and Navigation:

The registration and course selection process on E-Learning platforms can be complex involving multiple steps, forms, and navigation menu option. this complexity may discourage students from completing registration process for navigation through the platform efficiency. We can simplify the registration process and improve navigation by implementing intuitive interface, easy and clear instructions and ensuring a seamless student experience.

Interactive Learning Features:

The traditional E-Learning platforms often lacks of interactive features and engage students and facilitate active learning. This can promote diminished motivation and participation among students. We intend to incorporate interactive components such as multimedia content notes and PPT's to enhance student engagement and support learning results.

2.2 Feasibility Study

2.2.1 Economic Feasibility

a) Personnel Expenses

S. No.	SPECIFICATION	COST
1	System analyst	₹ 5000/- (4 months)
2	Programmer	₹ 7000/- (4 months)
3	Database manager	₹ 7000/- (4 months)

b) Other expenses

S. No.	SPECIFICATION	COST
1	Electricity (For system and workplace)	₹ 2000/- (4 months)
2	Stationary	₹ 1000/- (4 months)
3	Security expenses	₹ 1000/- (4 months)
4	Wi-fi	₹ 1000/- (4 months)

c) Hardware & Software expenses

1	Development Server (Express JS)	3000/-
2	Server Software (O.S.)	1000/-
3	DBMS Server (MongoDB)	1000/-
Total		**₹ 28000/- (4 months)**

Final Cost of our Project = ₹ 28000/-

Total Completion time of our project = 4 months.

2.2.2 Technical Feasibility

a) Hardware requirements:

The hardware we are using with minimum recruitments are: -

S. No.	SPECIFICATION	DESCRIPTION
1	Processor	Intel i5, or above
2	RAM	8 GB
3	Hard Disk	512 GB

b) Software requirements:

Stop software we are using here with minimum requirements are: -

S. No.	SPECIFICATION	DESCRIPTION
1	Operating system	WINDOWS 11 (64 Bits)
2	Applications tools	VS CODE, CHROME, MS WORD
3	Front end language	HTML, CSS, JS, BOOTSTRAP
4	Backend language	Express JS
5	Control end	MongoDB, mongoose

2.2.3 Behavioral Feasibility

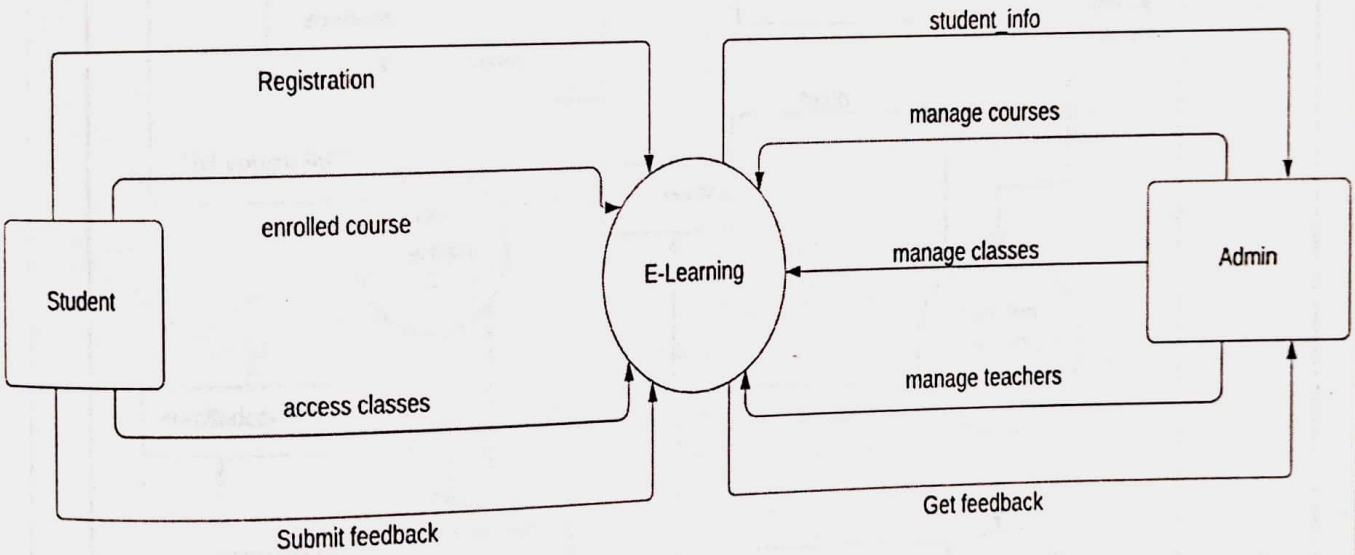
As we all know that behavioural feasibility study should be maintain by the co-ordination and how to made strategy.

a) Understand the needs preference and behaviour of the target student community.
b) Analyse, how simple it is for students to browse categories course searches and complete enrolment in the course.
c) We had conducted regular meeting between team members and clients.
d) To make sure that our clients are confident and up to date on progress, we will schedule weekly meetings. We'll make sure to keep our clients updated on the status of their projects on a frequent basis.

2.3 Data Flow Diagram: -

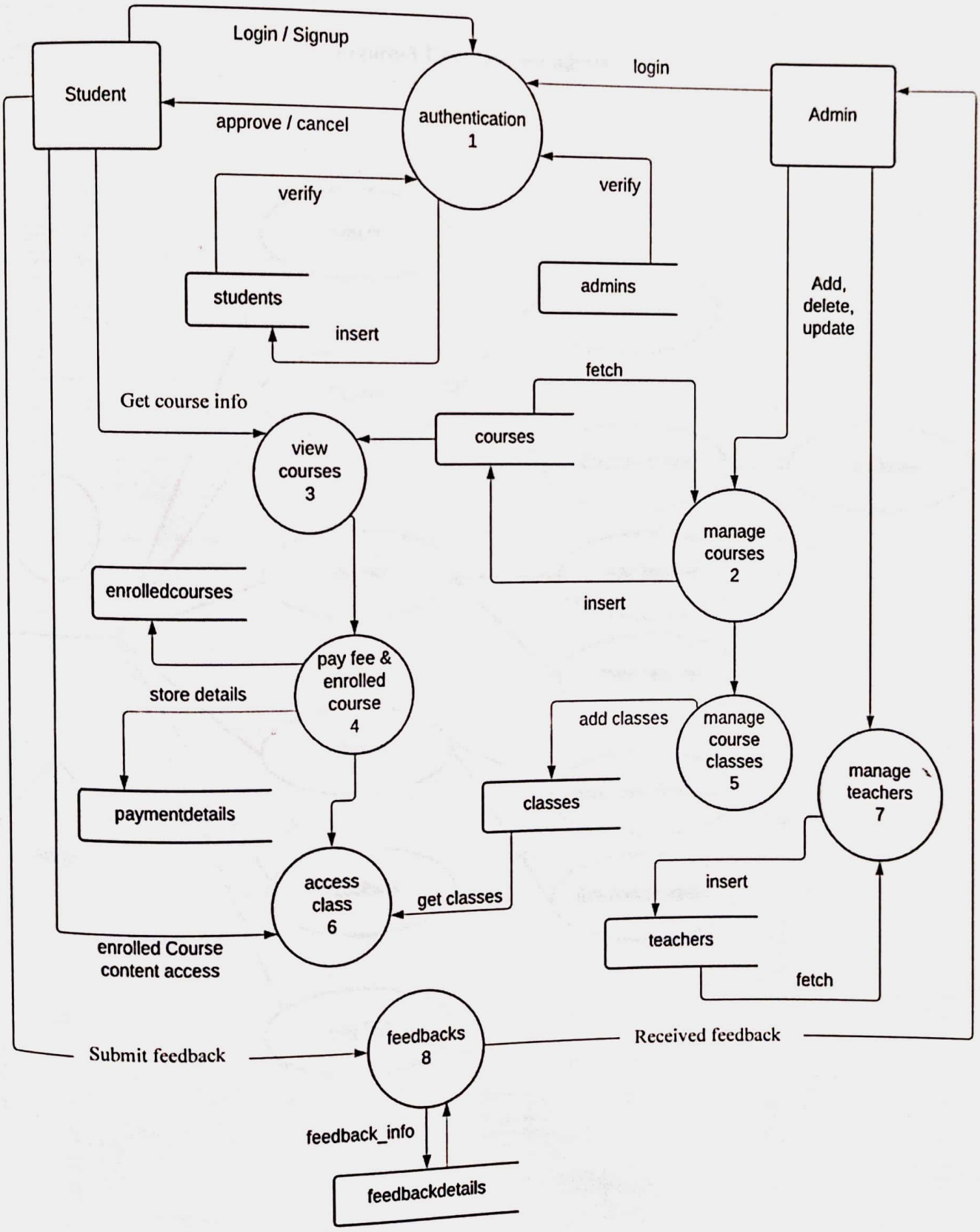
2.3.1. Level 0 DFD: -

Figure-1 Level 0 DFD



2.3.2. Level 1 DFD: -

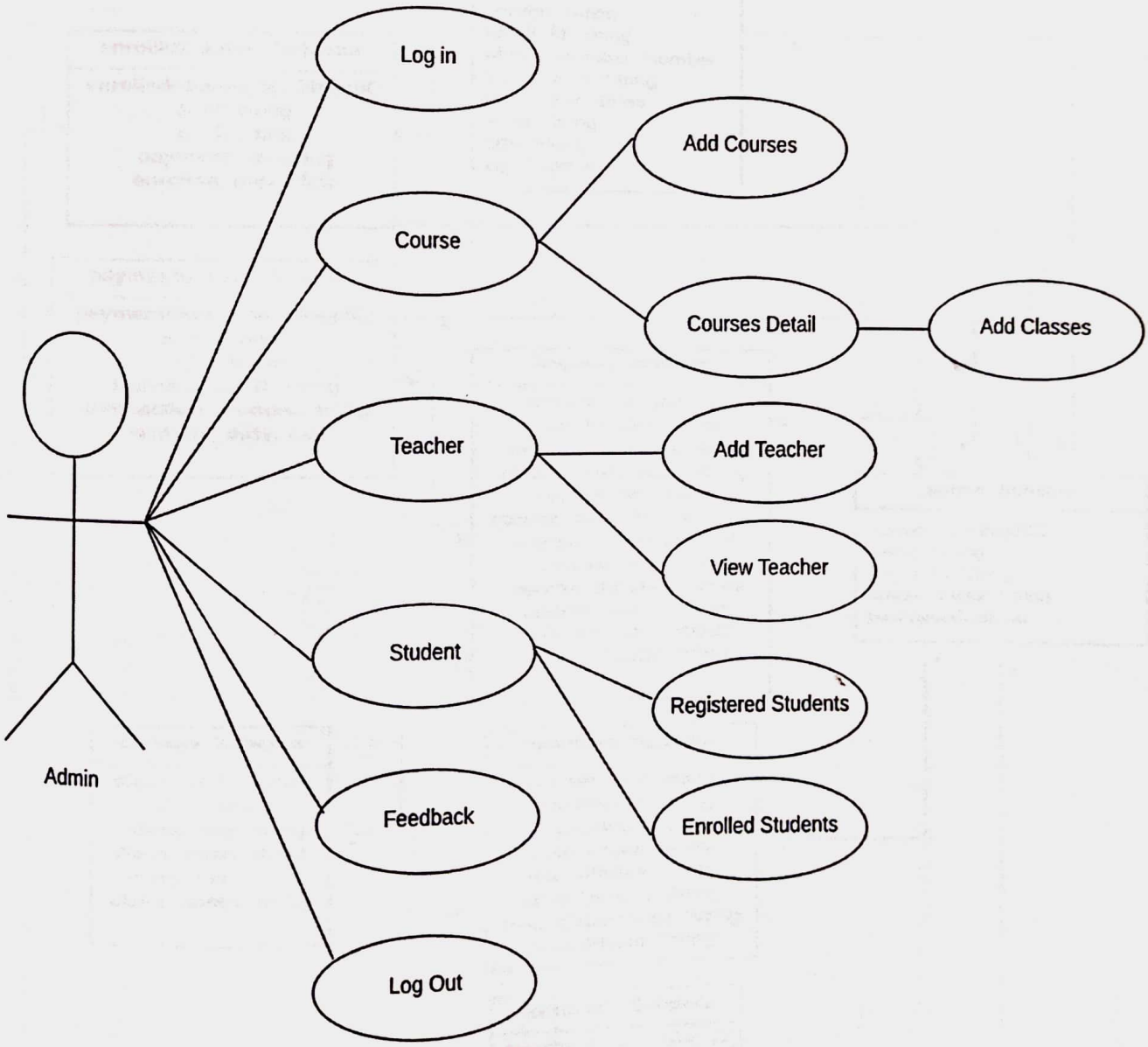
Figure-2 Level 1 DFD



Chapter 3. System Design

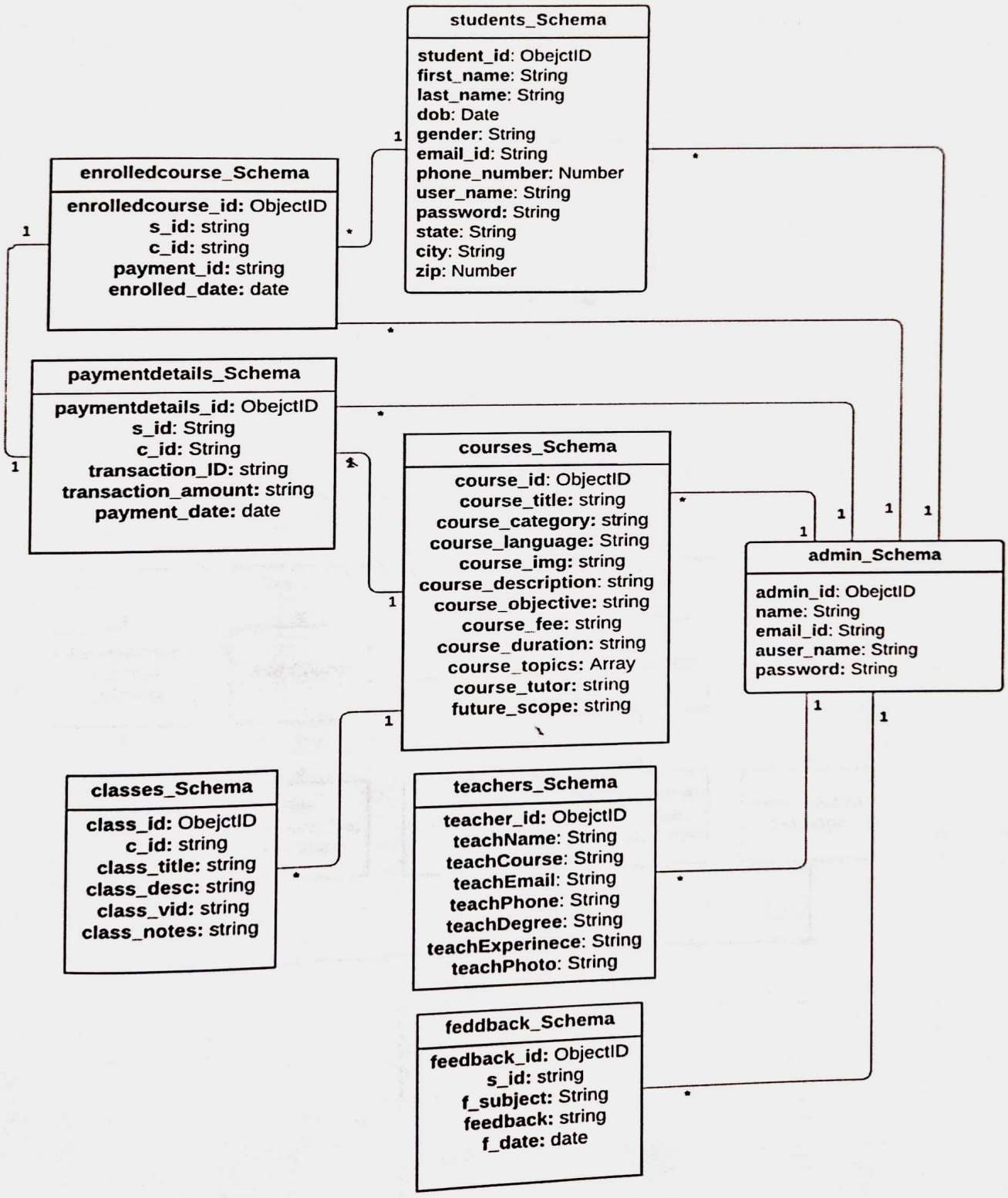
3.1 Use Case Diagram: -

Figure-3 Use Case for admin



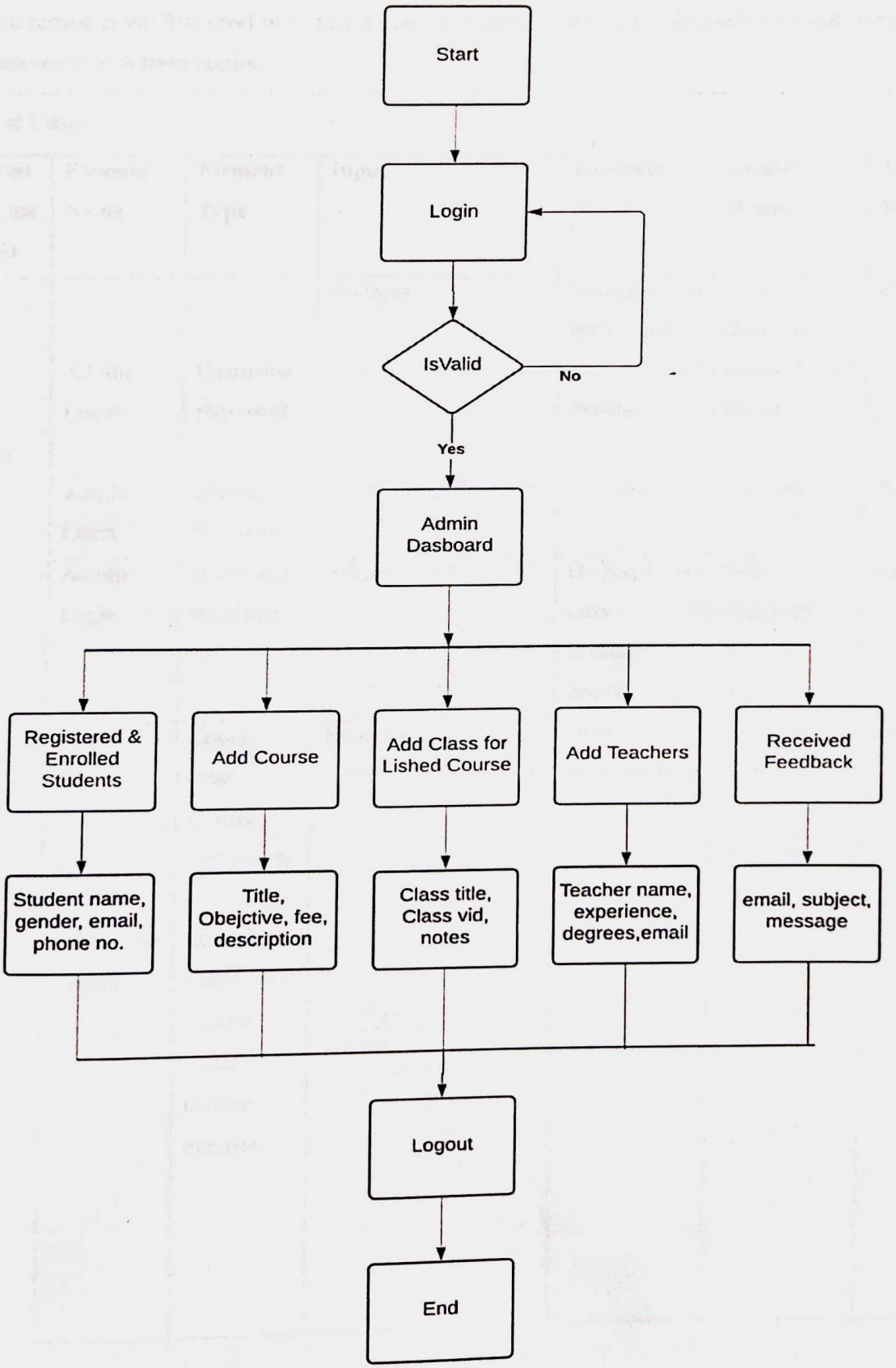
3.2 Structure Chart: -

Figure-4 Structure Chart for admin



3.3 System Flow Chart: -

Figure-5 System Flow chart



Chapter 4. Testing

4.1 Unit Testing

Unit testing is the first level of testing it does in development phase. I've performed and tested every component of **Admin** section.

Test Cases

Test Case ID	Element Name	Element Type	Input	Expected Result	Actual Result	Test Result
L1	Admin Login	Username Password	No input	Displays an error – please fill all the details	Error displayed – please fill all the details	Passed
	Admin Login	Username Password	Admin123@/*******	NO error	No error	Passed
	Admin Login	Username Password	Admin/*******	Displays an error – Invalid details	Error displayed - Invalid details	Passed
L2	Add New Course	Course Title, Course Language, Course Objective, Course fee, Course tutor, Course duration	No input	Displays an error – please fill all the details	Error displayed – please fill all the details	Passed

	Add New Course	Course Title, Course Language, Course Objective, Course fee, Course tutor, Course duration	JS Tutorial, English, basic of JS, 2999/-, Shubham Gupta, 6 weeks	New Course Added Successfully	New Course Added Successfully	Passed

The login button on the Login Page is disabled by default until the admin enters his valid admin user name and password in the input fields. This measure ensures that the admin has provided the required information before attempting to log in. Once both fields are filled, the admin is able to log in and access the admin dashboard, but only if the entered data is valid and correct. Logging in as an admin will navigate to the admin dashboard and access the available features on the website.

4.2 Validation Testing

Validation testing provides final assurance that software meets all behavioural and performance requirements. It helps to identify defects or issues that may arise when the components are integrated. Validation can be defined in many ways but a simple definition is that validation succeeds when software function in a manner that can be reasonably used by the customer. In this testing we had tested the connectivity or data transfer between couple of unit testing modules.

Validation testing will involve testing the overall system to ensure that it meets the requirements of the user such as ease of use, security, and reliability. This will involve testing various scenarios such as registration of complaints, updating complaint status, and generating reports to ensure that the system is functioning as intended.

4.3 Configuration testing

The configuration aspects that need to be tested. This can include server configurations, database settings, payment gateway integration, email settings, and any other relevant configurations specific to the e-learning website.

Test Case ID	Description
Test case 1	Server Configuration
Test case 2	Database Configuration
Test case 3	Optimal performance of server parameters

Test Cases

Test cases	Element Name	Element Type	Expected Result	Actual Result	Test Result
Case 1	Server configuration testing	Server (HTTP)	Acknowledgement has been provided to end user though popup by Server as needed	As Expected, (Popups has been shown on right timing)	passed
Case 2	Database Configuration testing	Database (MongoDB)	All the filled details have been sent to the used database (MongoDB) correctly as filled by end-user	Database has been sent correctly and firmly	passed
Case 3	Performance optimization	Memory limit and File uploads limits, etc.	All the file uploading, memory related limits works correctly and if it exceeds the limit the user will get popup through server	If it does exceed the limit popups has been shown for guidance	passed

4.4 Compatibility testing

Compatibility testing refers to the process of testing its compatibility across different platforms, devices, browsers, operating systems, and network environments. The objective is to ensure that the website functions work correctly and consistently for users.

Test Cases

Test Scenario	Element Name	Element Type	Input	Expected Result	Actual Result	Test Result
1	Device Compatibility	Responsiveness On different devices	Checking Responsiveness on devices for e.g., Laptops, tablets, Smartphones	Website will adapt different screen sizes on different devices without any disbalancing	As expected, the website is full responsive and working perfectly	Passed
2	Operating System Compatibility	Checking website behaviour on different Operating Systems	Working on different Operating Systems e.g., Android systems, macOS, iOS, Windows, etc.	There shouldn't be any changes in website Designing, Working, Accessibility and Performance speed, while switching the Operating System	As Expected, The Website is working all same even on different Operating System expect Linux operating system	Partially Passed
3	End-user Security	Data Security	Testing security measures of users	The logged in user will be able to see his/her own details related information only or correct user-profile is opened for user while logging in	As Expected, Details of login Email is shown, no details of other user are visible to all. Hence Secured	Passed

Chapter 5. Implementation

Firstly, we need to install some IDE software for implementing our project which are as follows: -

5.1 Visual Studio Code

a. Firstly, go to official website of visual studio https://code.visualstudio.com/download
b. Now select the one which you want to install according to your system click on download button
c. Now click on the install button.
d. Follow up installation process and choose options that are suitable to your need.
e. Click and exit.

5.2 Install Node.js and npm

a. Ensure that Node.js and npm (Node Package Manger) are installed on your system.

b. You can Download and install them from the official Node.js https://nodejs.org/en/download

c. Set up the project.

d. Create a new directory for the project, initialize a new Node.js project using npm init.

e. Install the required dependencies such as Express, Node.js from https://www.npmjs.com/

5.3 Install Project Dependencies

a. Navigate to the project directory in the terminal or command prompt.

b. Run the command npm install to install the project directories.

c. Create a .env file in the root directory of the project directory, add necessary environment variables.

d. Refer to the project documentation or configuration filed to determine the required env. Variables.

5.4 Set Up Database

a. System uses MongoDB, so MongoDB compass needs to be installed on the system and running.

b. Crete a new database for your project .and update env file with database URL.

5.5 Start the Backend

a. Navigate back to the projects root directory in the terminal or command prompt.

b. Run the command npm start or node server.js to start the server.

c. If you want automatic server on file changes during development, you can use nodemon instead nodemon server.js

5.6 Access the Application

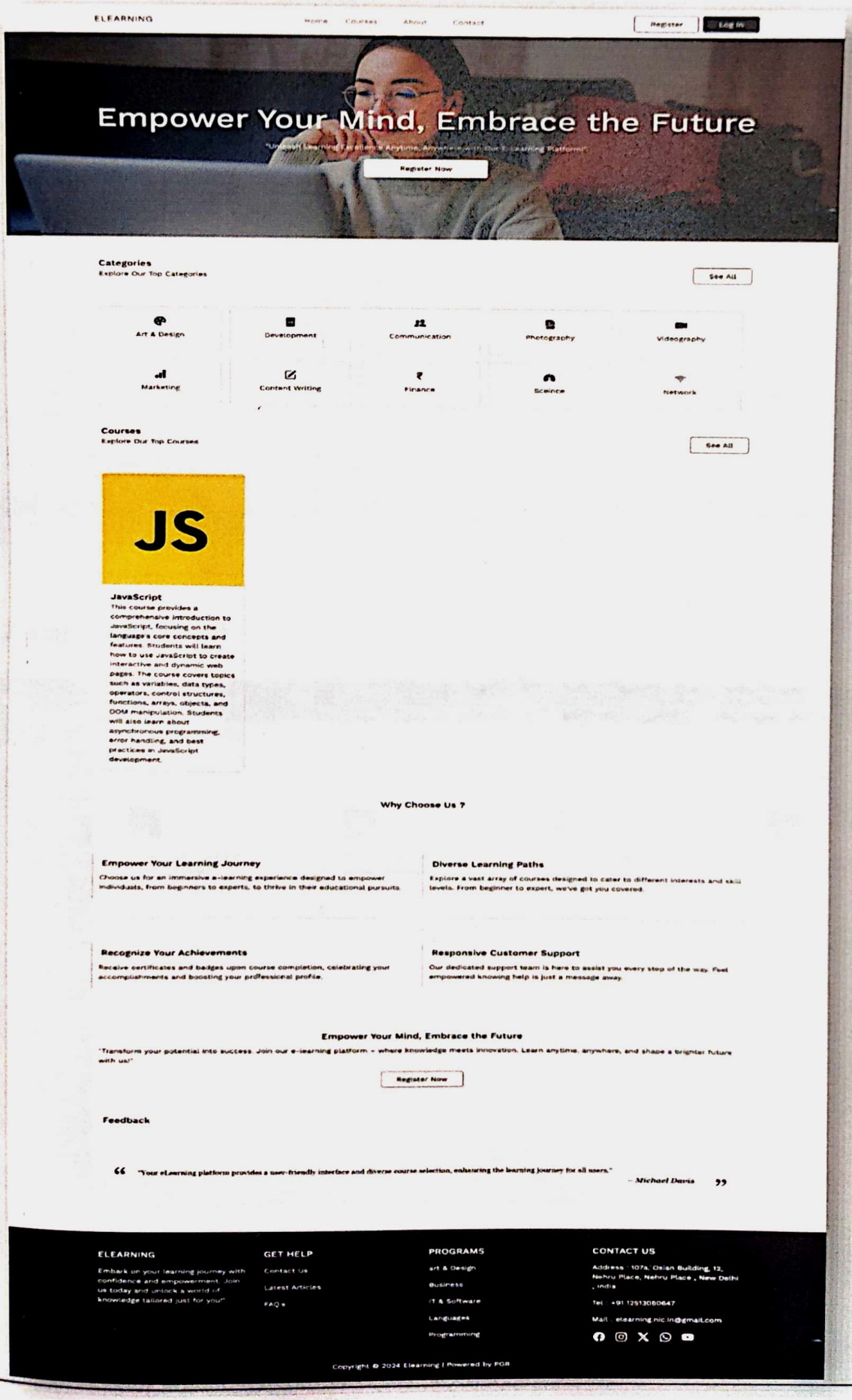
a. Open a web browser.

b. Enter http://localhost:3000 in the address bar.

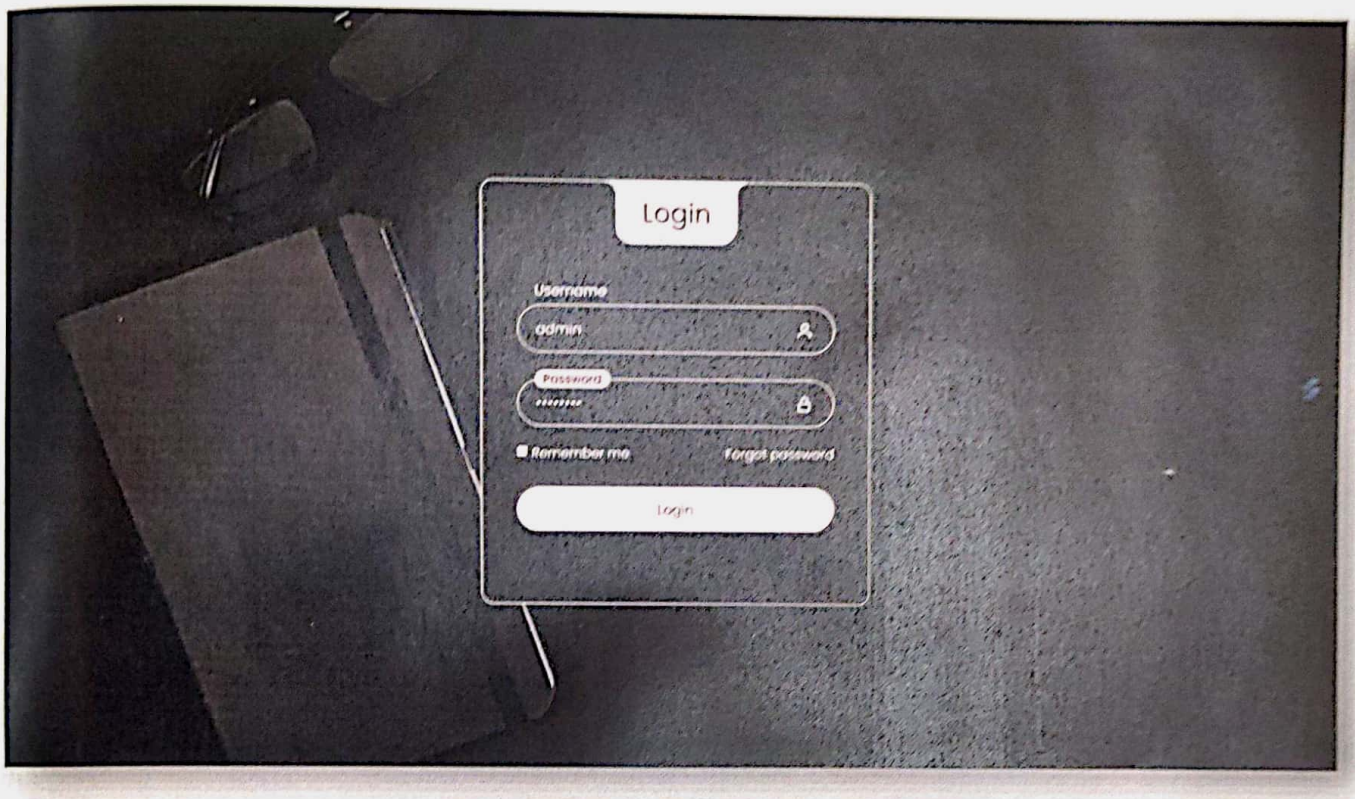
c. The E-Learning website should load in browser and you can interact with it.

Chapter 6. Sample Forms

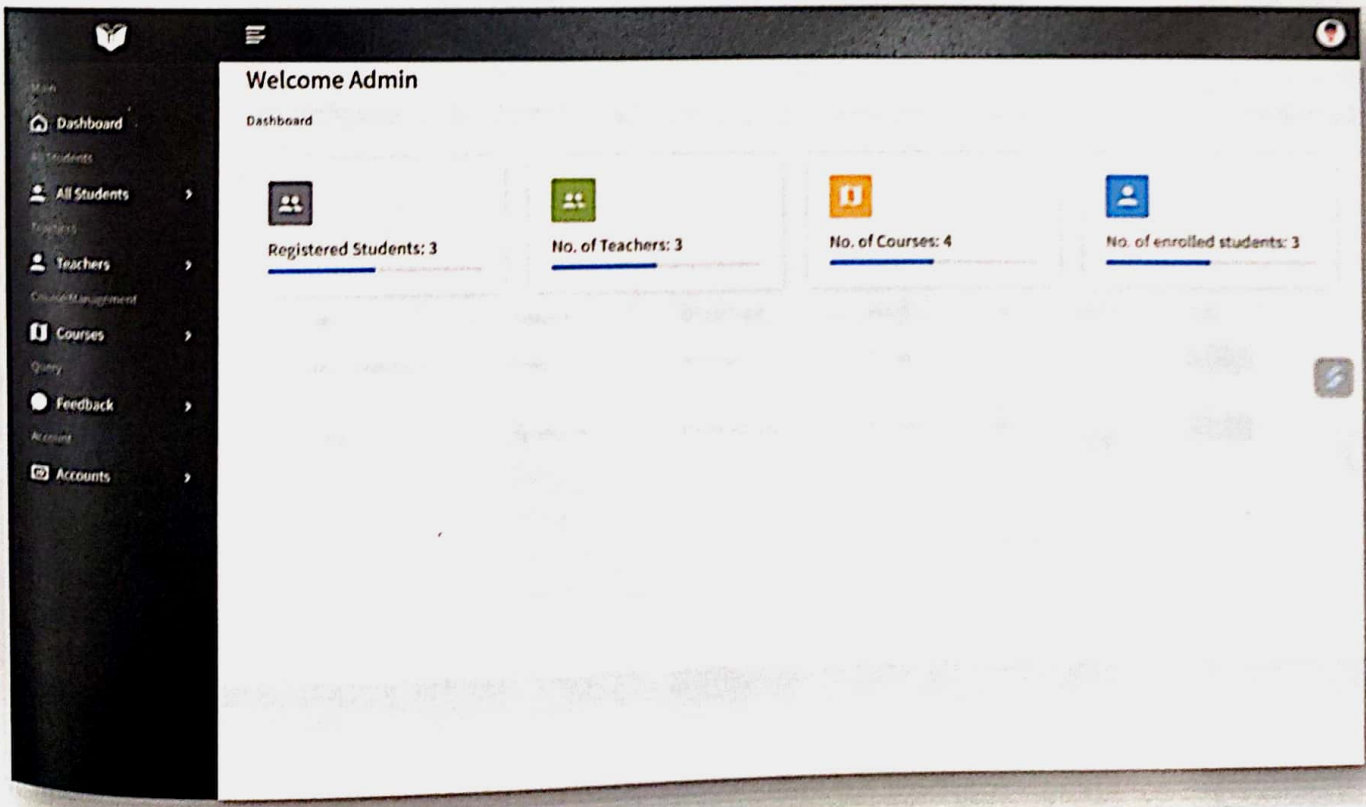
6.1 Home Page



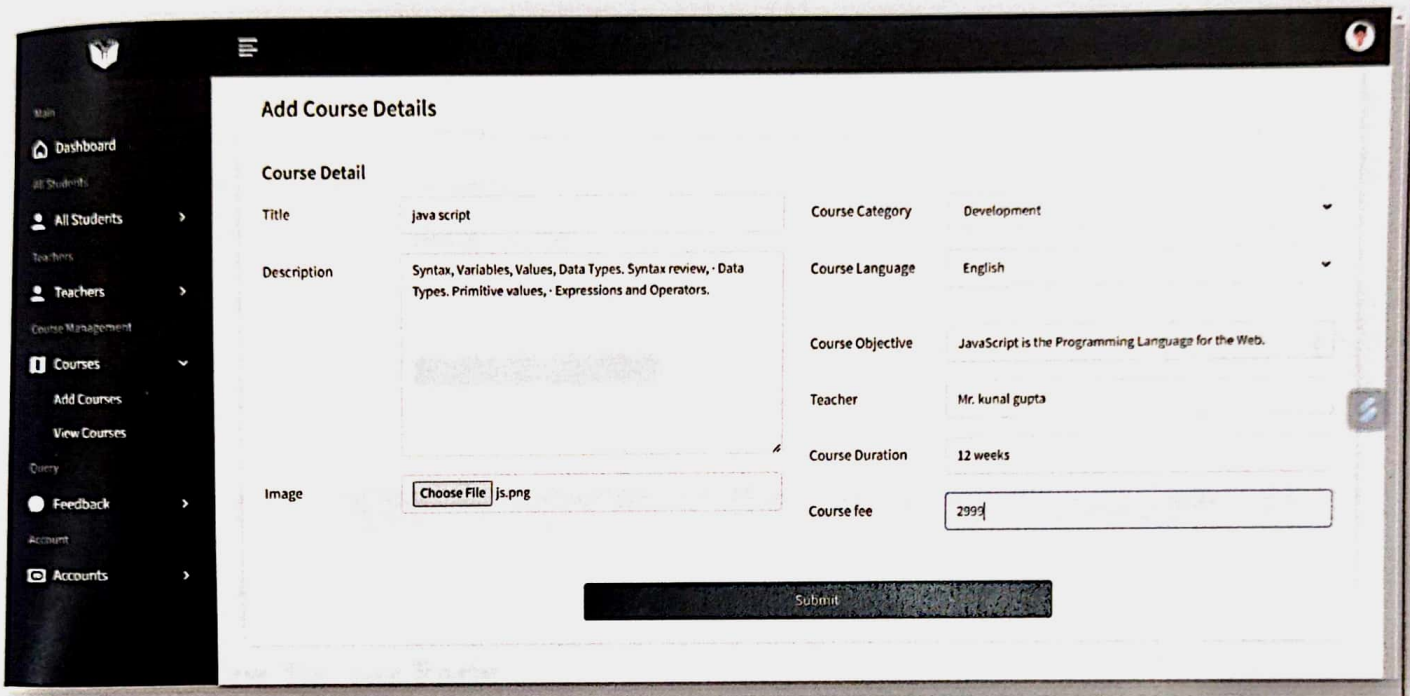
6.2 Admin Login



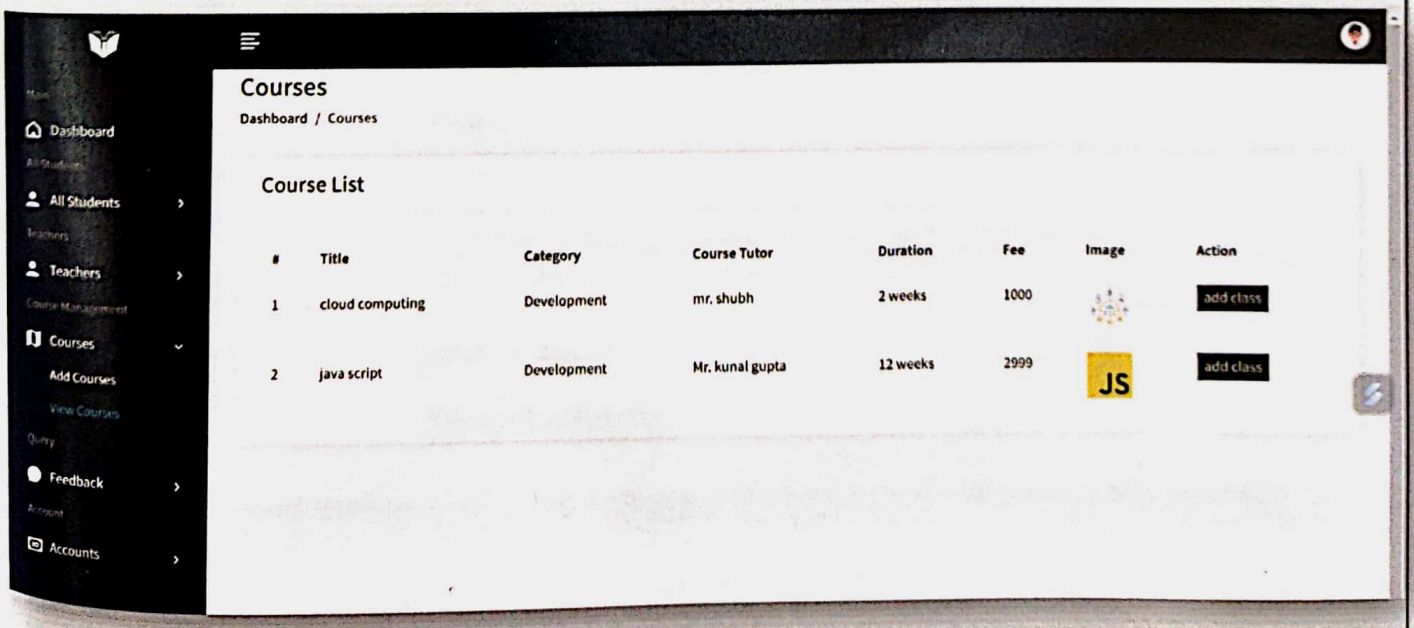
6.3 Admin Dashboard



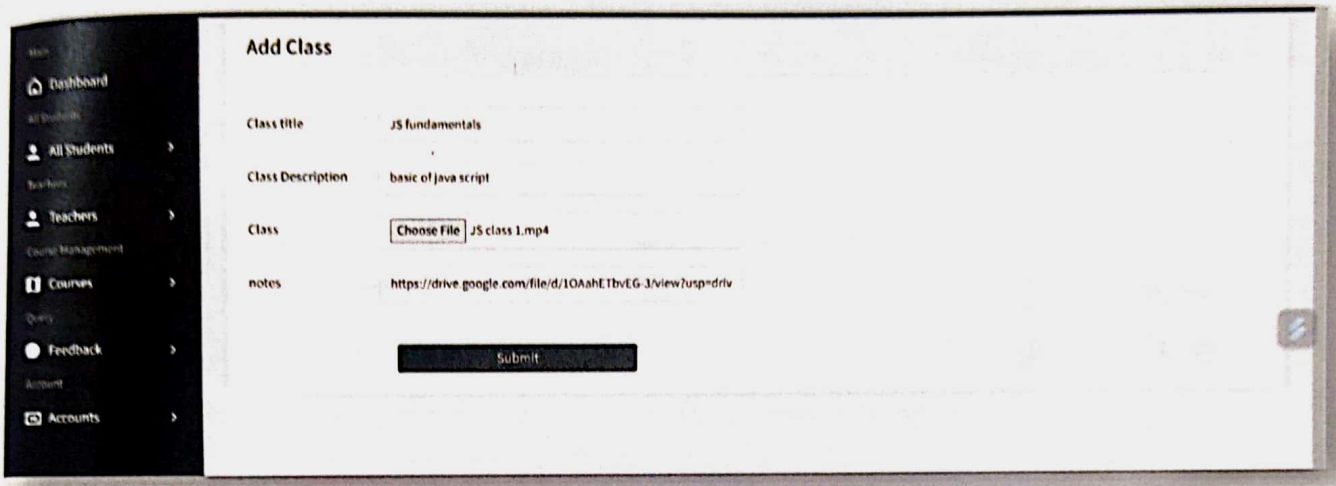
6.4 Add New Course Form



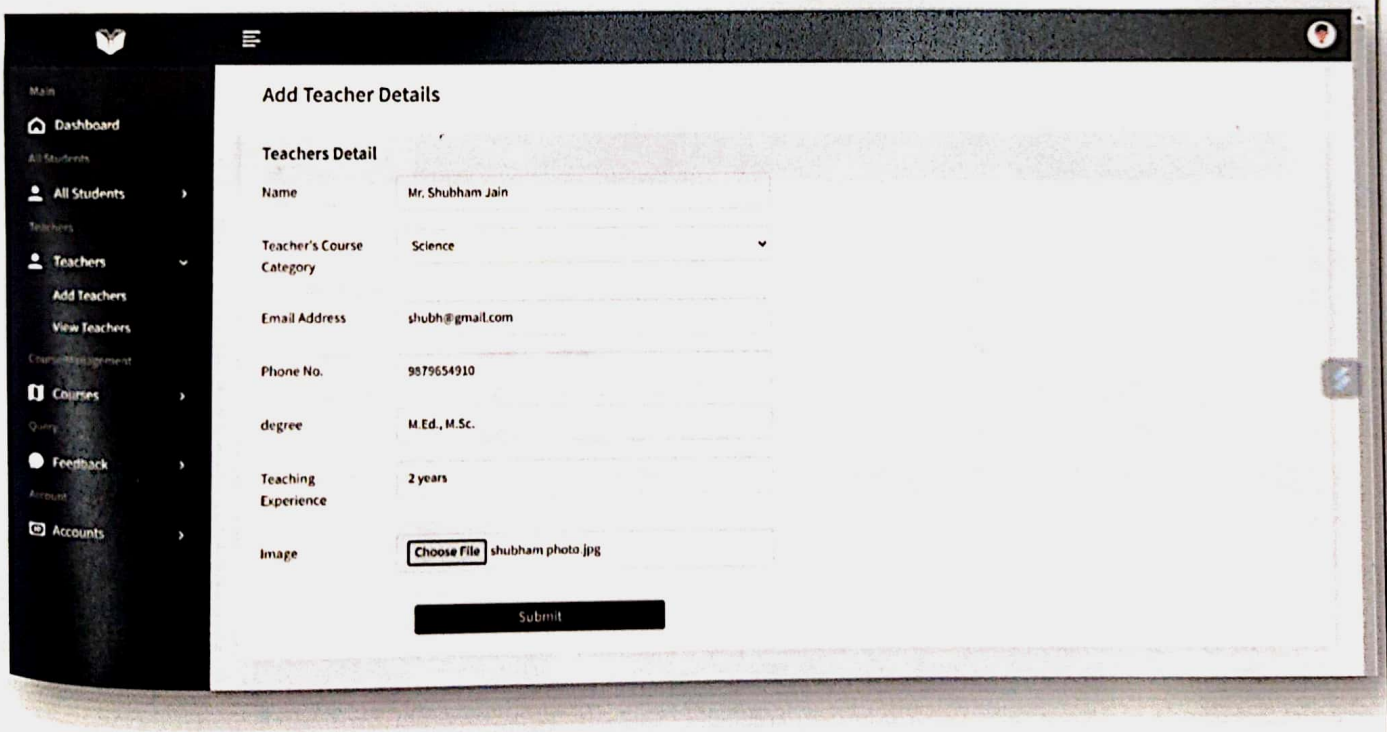
6.5 Course Details



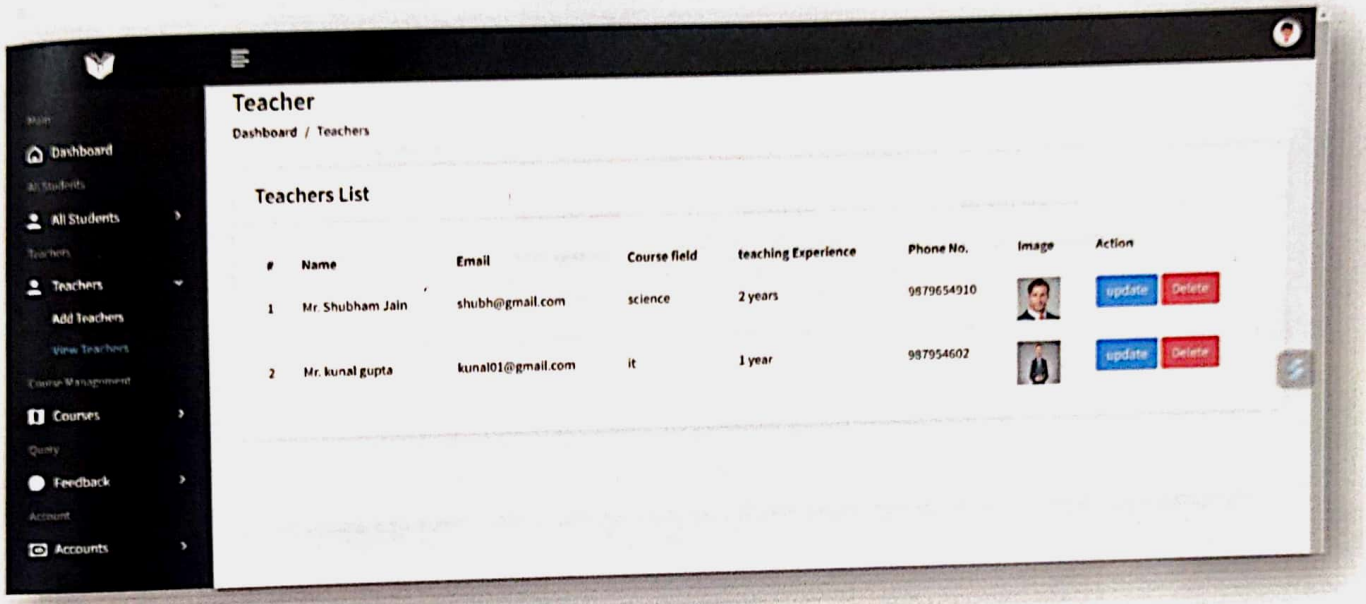
6.6 Add Course Class Form



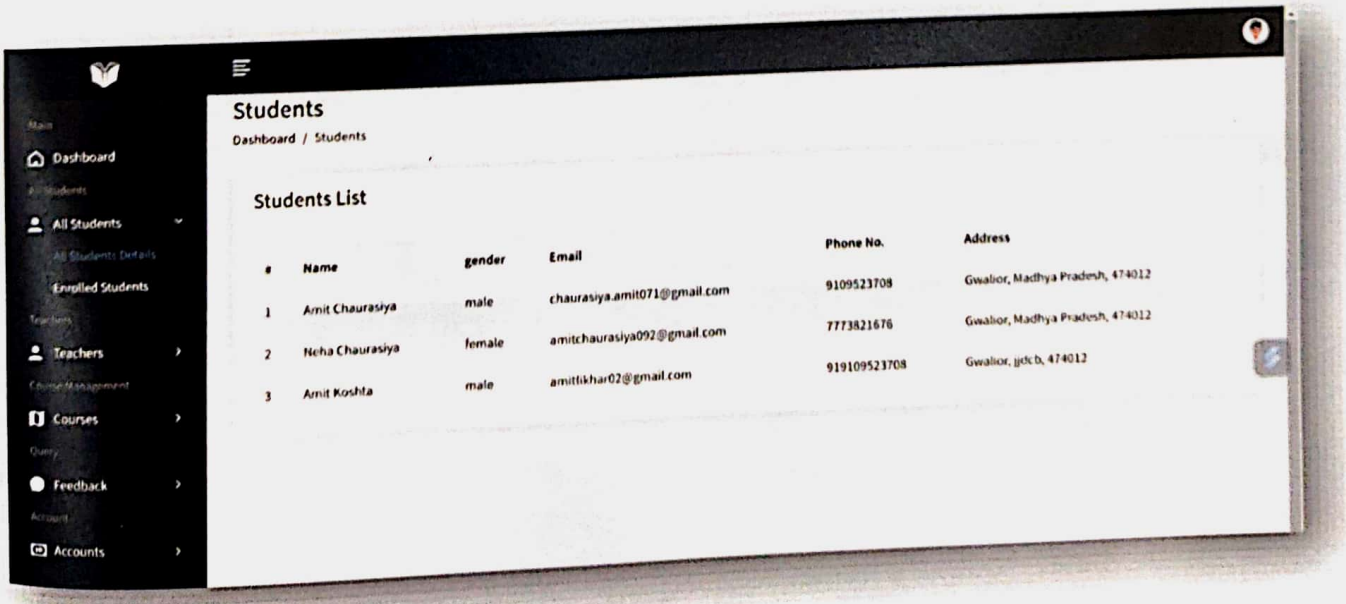
6.7 Add New Teacher Form



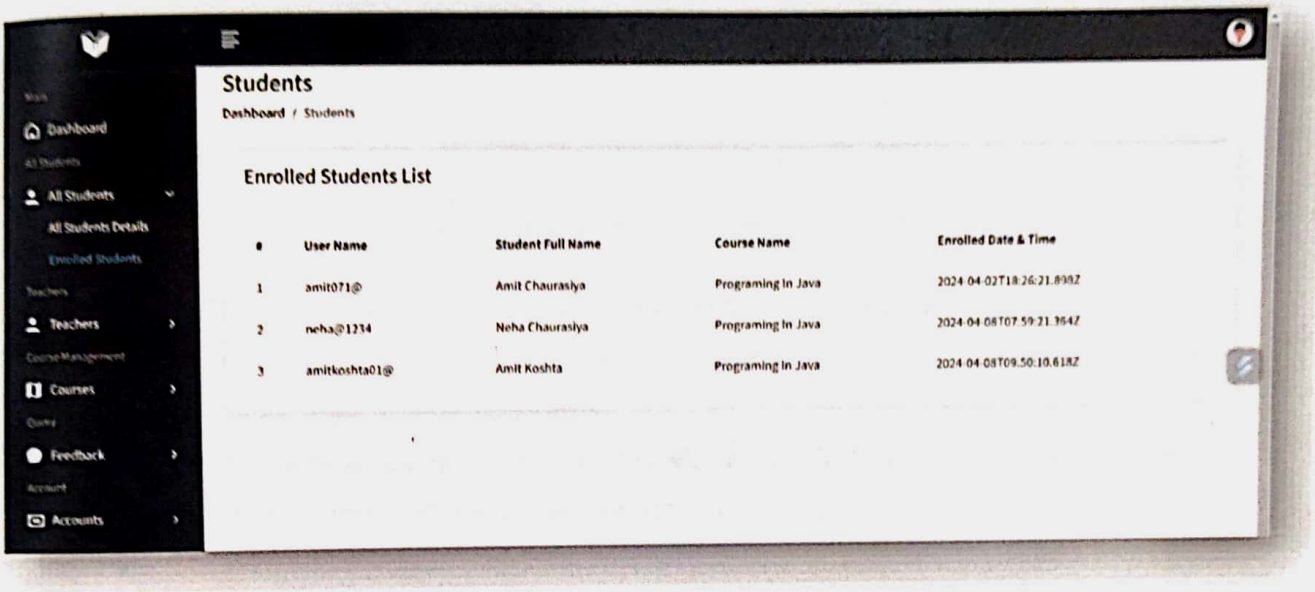
6.8 Teachers List



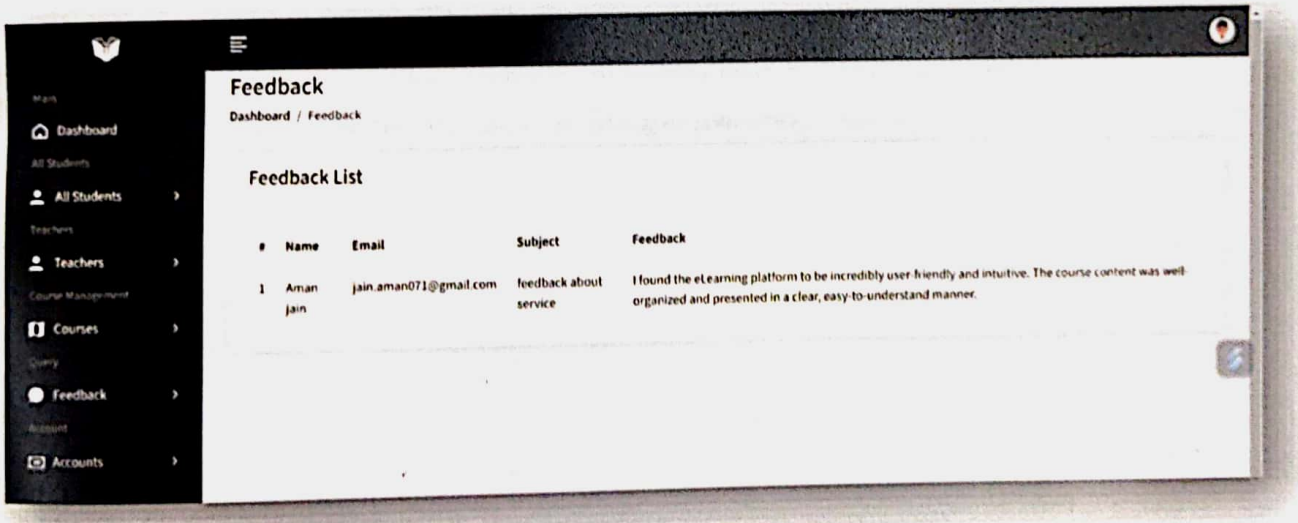
6.9 Registered Students



6.10 Enrolled Students



6.11 Feedbacks



Chapter 7. Conclusion

Prior to creating the timetable, we gather the project's demands during the planning phase. We prepare and then draft project documentation. We write the system code when the design is complete. When we design rules, we guess and guess and guess. In the event of an error, fix the issue. Lastly, write the code, test the project, and figure out how much it will cost.

In closing, the E-Learning project has come to successful end, achieving what we set out to do. We have built a website that's easy for students to use when they went to buy courses. This website has turned into a handed tool for whole student community.
We did face some challenges along the way, like figuring out technical stuff and how to make different pieces of data work together. we have also realized that keeping this website up to date in super important.

Looking ahead we got some exciting plans. We are thinking about using really smart technology to help students find the right course and making sure our website can handle lots of students.

We went to say a big thanks to our teams and everyone we supported us. We are really enthusiastic about the future and are committed to making our website more useful for folks involved in students' community. So, this isn't the end; it's just a beginning of something even better!

BIBILIOGRAPHY

The following references were referred during the analysis and execution phase of the project: -

1. https://visualstudio.microsoft.com/downloads/

2. https://nodejs.org/en/download

3. https://www.geeksforgeeks.org/

4. https://www.w3schools.com/

5. https://www.npmjs.com/package/download

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Fortnightly Progress Report (FPR) -1

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Name of student	Amit koshtq		Department	MCA	
Industry/Organization	Praedico Global Research Pvt. Ltd.		Date/Duration	02/01/24 - 15/01/24	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation			✓		
Performance/Quality of work			✓		
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work			✓		
Comment on nature of work done/Area/Topic	Learn HTML, CSS and JavaScript				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT**				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor	Gupta				

Receiving Date	16/01/2024	Name of Faculty Mentor	Dr. R.S. Jadon	Sign	

Fortnightly Progress Report (FPR) -2

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Amit Koshta		Department	MCA	
Industry/Organization	Praedico Global Research Pvt. Ltd		Date/Duration	16/01/24 - 31/01/24	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation			✓		
Performance/Quality of work			✓		
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work			✓		
Comment on nature of work done/Area/Topic	Learn Bootstrap, Advance JavaScript (ES6), Introduction of React				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT**				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor					

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Receiving Date	06/02/2024	Name of Faculty Mentor	Dr. R.S. Jadon	Sign	

Fortnightly Progress Report (FPR) -3

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Amit Koshta		Department	MCA	
Industry/Organization	Paradico Global Research Pvt Ltd		Date/Duration	01/02/24-15/02/24	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation			✓		
Performance/Quality of work			✓		
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	React setup, Components, Hooks, Props and React Bootstrap Integration				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT** ✓				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor	Gupta				

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Fortnightly Progress Report (FPR) -4

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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Amit Kashtg		Department	MCA	
Industry/Organization	Praedico Global Research Pvt. Ltd		Date/Duration	16/02/24-29/02/24	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work			✓		
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Working on Frontend development using React and Bootstrap				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor	Gupta				

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Fortnightly Progress Report (FPR) -5

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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Amit Koshty		Department	MCA	
Industry/Organization	Praedico Global Research Pvt. Ltd.		Date/Duration	01/03/24 - 15/03/24	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Worked on NodeJS, Express JS, MongoDB for Backend & Data Base				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT**				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor	Gupta				

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Industry/Organization	Praedico Global Research Pvt. Ltd.		Date/Duration	16/03/24 – 31/03/24	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Worked on Project using MERN Technology.				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT** ✓				
Name of Industry Mentor	Sweety Gupta				
Signature of Industry Mentor	Gupta				

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Fortnightly Progress Report (FPR) -7

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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

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Industry/Organization	Praedico Global Research Pvt. Ltd		Date/Duration	01/04/24 - 15/04/24	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Worked on Project				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT**				
Name of Industry Mentor	Suvidy Gupta				
Signature of Industry Mentor					

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