

Brainwave - The Online Learning Platform for Skill Development

A PROJECT REPORT

Submitted by

Nishit Patel

225160694026

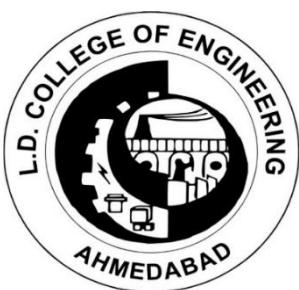
In partial fulfilment for the award of the degree of

MASTER OF COMPUTER APPLICATION

In

Department of Information Technology,

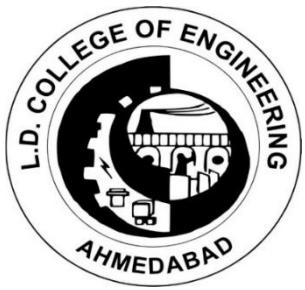
L.D. Collage of Engineering, Ahmedabad.



Gujarat Technological University

Ahmedabad

Academic Year:2023-24



L.D. Engineering College, Ahmedabad

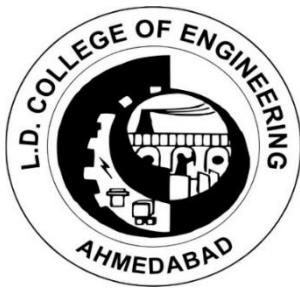
Navrangpura, Ahmedabad – 380015

CERIFICATE

This is Certify that the project submitted along with the project entitled **Online Learning Platform for Skill Development** developed and submitted to Gujarat Technological University, Ahmedabad by **NISHIT PATEL (225160694026)** fulfilment of MCA SEM-4 for the award of the “Master of Computer Application (M.C.A.)” in the year 2023-24. This is the original work and carried out under guidance and supervision.

Dr. Shital Solanki
Assistant Professor

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Head of department



L.D. Engineering College, Ahmedabad

Navrangpura, Ahmedabad – 380015

DECLARATION

I hereby declare that the Online Learning Platform for Skill Development report submitted in partial fulfillment for the degree of Master of Computer Application (M.C.A.) in to L.D. College of Engineering, Ahmedabad, is a bonafied record of original project work carried out by me at L.D. College of Engineering under the supervision of Shital Solanki and that no part of this report has been directly copied from any student's reports or taken from any other.

Signature of Student

Nishit Patel



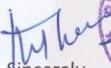
BRAINSQUARE
Technologies Private Limited

Date: 25th April 2024

TO WHOMSOEVER IT MAY CONCERN

Subject: Internship Training Completion

We are pleased to confirm that **Nishit Patel** Enrollment number **225160694026** a student of MCA (4th sem), **L.D Engineering College, Ahmedabad** has successfully completed a project in web technology **Brainwave - Online Learning Platform for Skill Development** at BrainSquare Technologies Private Limited during 5th February 2024 to 25th April 2024.


Sincerely,
BrainSquare Technologies Private Limited

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ACKNOWLEDGEMENT

I student of MCA 4th sem, L.D. COLLEGE OF ENGINEERING, Ahmedabad here by express our thanks to all those who had really helped us in completing this project successfully.

We are thankful to Prof Shital Solanki a for their best guidance and Co-operation for shaping this project. Without their guidance, it would have been difficult to complete the project.

Finally, we wish to thanks to all faculty member who directly helped us in completion of this website. It would only due to their support, motivation, and encouragement that we could steer through the project on an honest course to splendour of success.

With Sincere Regards,

Nishit Patel

ABSTRACT

The practical training is almost important in understanding theoretical accept viewing to this importance, I have prepared this project report to enrich our knowledge regarding Full-stack development. The project title is ‘Online Learning platform for Skill development’.

I have developed this project using ReactJS as front-end, NodeJS, Express JS as back-end and MongoDB as database. By preparing this report, I have understood the need to practical training and education field.

I hereby declared that it is own work with guidance of the faculty member of IT DEPARTMENT L.D. COLLEGE OF ENGINEERING

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Abbreviations

SDLC	:	Software Development Life Cycle
OLPSD	:	Online learning platform for skill and development
CRUD	:	Create, Read, Update, Delete
API-	:	Application Programming Interface
MERN	:	MongoDB. Express JS, React JS, Node JS
JWT	:	JSON Web Token
CSS	:	Cascading Style Sheets
HTML	:	Hypertext Markup Language

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1. INTRODUCTION

1.1 Existing System:

The current education system predominantly relies on traditional classroom-based learning and, to some extent, Learning Management Systems (LMS).

These systems often lack the flexibility and interactivity needed to cater to the evolving demands of modern learners and instructors.

The traditional systems face challenges in terms of scalability, personalization, and accessibility, especially for those who prefer remote and self-paced learning.

The problem addressed by OLPSD lies in the need for a versatile and user-centric online learning platform that caters to the growing demand for remote education and skill development. Traditional education models often lack flexibility and accessibility, limiting individuals' opportunities for continuous learning and skill enhancement.

OLPSD aims to bridge this gap by offering a comprehensive solution that leverages technology to provide interactive, personalized, and engaging learning experiences across various domains.

1.2 Need for the New system:

The need for a new Online learning platform for skill development(OLPSD) arises from the changing landscape of education.

There is a growing demand for online courses that offer flexibility, accessibility, and a diverse range of subjects.

The new system aims to bridge the gap between traditional and online learning, providing an innovative platform for both educators and learners.

1.3 Objective of the New System:

Develop a secure and user-friendly online learning platform with robust authentication mechanisms.

Curate a comprehensive catalogue of courses with detailed descriptions and instructor information.

Enable seamless course enrollment and management for users, instructors, and administrators.

Provide diverse multimedia content and interactive learning materials to enhance the learning experience.

Implement progress tracking features to help users monitor their learning journey and achievements.

Foster collaboration and knowledge sharing among learners through discussion forums and peer interaction.

Empower instructors with tools to create, manage, and monitor courses effectively.

Issue digital certificates or badges to recognize and reward users upon course completion.

Generate actionable insights through user analytics to optimize platform performance and user experience.

Ensure mobile accessibility to enable learning on-the-go and reach a wider audience.

OLPSD aims to bridge this gap by offering a comprehensive solution that leverages technology to provide interactive, personalized, and engaging learning experiences across various domains.

1.4 Problem Definition:

The problem addressed by OLPSD lies in the need for a versatile and user-centric online learning platform that caters to the growing demand for remote education and skill development.

Traditional education models often lack flexibility and accessibility, limiting individuals' opportunities for continuous learning and skill enhancement.

OLPSD aims to bridge this gap by offering a comprehensive solution that leverages technology to provide interactive, personalized, and engaging learning experiences across various domains.

The OLPSD seeks to address these issues by incorporating modern technologies and pedagogical approaches.

1.5 Core Components:

The ‘Online Learning platform for skill development’ project comprises several core components, each responsible for specific functionalities that contribute to the overall system. The following sections outline the key components of the chatbot system:

User Authentication:

- Secure user registration and login processes.
- Role-based access control for administrators, instructors, and learners.

Course creation and management:

- Intuitive tools for instructors to create, edit and organize course content.
- Options for multimedia content, quizzes and assignments.

User Profiles:

- Comprehensive user profiles with personal and academic information.
- Progress tracking and course history for learners.

Content Delivery System:

- Reliable and fast content delivery, supporting various multimedia formats.
- Streaming capabilities for video lectures and interactive elements.

Payment Gateway Integration:

- Secure payment processing for course management.
- Option for discounts, subscription models, and payment options

Backend Services:

- Backend Development: Implements server-side logic using Node.js and Express.js to handle user requests, manage data, and communicate with the database.
- Database Management: Utilizes MongoDB or MySQL to store user data, course information, content files, user progress, and other relevant data.

These core components work together to create a comprehensive online learning platform that delivers educational resources and courses, fosters interaction and collaboration, tracks user progress, and provides administrative control and analytics capabilities.

1.6 Project Profile:

Project Title	Online Learning Platform for Skill Development (OLPSD)
Project Overview	<ul style="list-style-type: none"> • The Online Learning Platform for Skill Development (OLPSD) is a web-based application designed to provide users with access to educational resources and courses aimed at enhancing their skills and knowledge in various domains. • OLPSD aims to offer a diverse range of courses, interactive learning materials, and assessment tools to cater to the learning needs of individuals seeking personal or professional development
Industry Type	<ul style="list-style-type: none"> • Web Development
Objectives	<ul style="list-style-type: none"> • Develop a secure and user-friendly online learning platform with robust authentication mechanisms. • Curate a comprehensive catalogue of courses with detailed descriptions and instructor information. • Enable seamless course enrollment and management for users, instructors, and administrators. • Provide diverse multimedia content and interactive learning materials to enhance the learning experience.
Scope	<ul style="list-style-type: none"> • The scope of the Online Learning Platform for Skill Development (OLPSD) encompasses the development of a comprehensive web-based application focused on delivering educational resources and courses to users seeking skill enhancement across diverse domains.

	<ul style="list-style-type: none"> The platform will provide features for user authentication, course catalogue management, enrollment, multimedia content delivery, progress tracking, discussion forums, instructor management, certification issuance, user analytics.
Methodology	<ul style="list-style-type: none"> The project follows a systematic methodology, consisting of the following stages: Requirements Analysis: Identifying user needs and functional requirements for the OLPSD. Design: Creating a system architecture and user interface design for the OLPSD. Development: Implementing the chatbot's functionalities using ReactJS, NodeJS, ExpressJS, and MongoDB. Testing: Conducting rigorous testing to ensure the chatbot's accuracy, reliability, and usability. Deployment: Deploying the chatbot on web and mobile platforms for public access.
Key Features	<ul style="list-style-type: none"> User Authentication: Implement secure login functionality for users, including learners, instructors, and administrators. Course Catalogue: Display a comprehensive catalogue of courses available on the platform, including course descriptions, learning objectives, duration, and instructor information. Course Enrollment: Allow users to enroll in courses of interest, with options for self-paced learning or scheduled sessions. Multimedia Content: Provide interactive learning materials such as video lectures, presentations, quizzes, assignments, and hands-on exercises to engage learners.

	<ul style="list-style-type: none"> • Progress Tracking: Enable users to track their progress within courses, view completed modules, and monitor their overall performance. • Instructor Dashboard: Provide instructors with tools to create and manage courses, upload course content, track learner progress, and interact with learners.
Developed By	225160694026 - Nishit Patel
Technologies Used	React JS, Node JS, Express JS, MongoDB, VSCode, Postman
Team Details	Nishit Patel - 225160694026
Mentor Details	Prof. Bakul sir
Start Date	01/03/2024
End Date	23/04/2024

Table 1 : Project Profile

1.5 Assumption & Constraints:

➤ Assumption:

- User Connectivity: It is assumed that users have reliable internet connectivity to access the online learning platform without interruptions.
- User Device Compatibility: The platform assumes that users have compatible devices (e.g., desktops, laptops, smartphones, tablets) to access the platform and engage with the learning materials effectively.
- User Motivation: It is assumed that users are motivated to engage in online learning and actively participate in the courses offered on the platform.
- Instructor Availability: The platform assumes that instructors are available to create and manage courses, interact with learners, and provide timely feedback and support.
- Course Content Quality: It is assumed that the course content provided by instructors meets quality standards and effectively delivers the intended learning outcomes.
- Data Security: The platform assumes the implementation of robust security measures to protect user data, including authentication credentials, personal information, and learning progress.

➤ Constraints:

- Budget: The project operates within a limited budget for development, testing, and maintenance, which may restrict the implementation of certain features or technologies.
- Timeframe: The project timeline imposes constraints on the development process, including requirements gathering, design, development, testing, and documentation.
- Technology Stack: The project is constrained by the selected technologies for frontend, backend, database, and authentication, limiting flexibility in technology choices.
- Scalability: The platform may face challenges in scaling up to accommodate a growing user base and increasing demand for courses and resources.

- Instructor Expertise: The availability of qualified instructors and subject matter experts may pose constraints on the diversity and quality of course offerings.
- User Adoption: The success of the platform relies on user adoption and engagement, which may be influenced by factors such as user experience, course relevance, and competition from other online learning platforms.

1.8 ADVANTAGES & DISADVANTAGES OF PROPOSED SYSTEM

➤ Advantages:

- Accessibility: Users can access educational resources and courses anytime, anywhere, through the online platform.
- Flexibility: OLPSD offers flexibility in learning schedules, allowing users to choose between self-paced learning or scheduled sessions based on their preferences and availability.
- Interactivity: The platform provides interactive learning materials, discussion forums, and hands-on exercises to engage learners and facilitate active participation.
- Analytics: The platform generates reports and analytics on user engagement, course completion rates, learner feedback, and platform usage, enabling continuous improvement and optimization.

➤ Disadvantages:

- Digital Divide: Users without access to reliable internet connectivity or compatible devices may face barriers to accessing the platform and participating in online learning.
- Lack of Personal Interaction: Online learning may lack the interpersonal interaction and social learning opportunities available in traditional classroom settings, potentially impacting collaboration and peer-to-peer learning.
- Technical Challenges: Users may encounter technical difficulties or usability issues while navigating the platform or engaging with multimedia content, affecting the overall learning experience.
- Quality Assurance: Ensuring the quality and consistency of course content, instructor expertise, and assessment methods across diverse courses and instructors may present challenges.

2. REQUIREMENT DETERMINATION & ANALYSIS

2.1 Requirement Determination:

➤ Requirement determination is the process of gathering, analyzing, and documenting the needs and expectations of stakeholders for a software system. It involves identifying both functional requirements, which describe the system's behaviors and functionalities, and non-functional requirements, which specify quality attributes and constraints that the system must adhere to.

➤ Functional Requirements:

Functional requirements describe the specific behaviors and functionalities that the system must exhibit to fulfill the needs of its users. For the Online Learning Platform for Skill Development (OLPSD), functional requirements may include:

User Authentication:

- Users can register for an account.
- Users can log in to the platform using their credentials.
- Users can reset their passwords if forgotten.

Course Management:

- Users can browse and search for courses.
- Users can view detailed course descriptions, learning objectives, and instructor information.
- Users can enroll in courses.
- Instructors can create and manage courses, upload course content, and track learner progress.

Content Delivery:

- Users can access multimedia learning materials, such as video lectures, presentations, quizzes, and assignments.
- Users can view course content on both desktop and mobile devices.
- Learning Management:

- Users can track their progress within courses, view completed modules, and monitor their overall performance.
- Users can receive digital certificates or badges upon course completion.

Administrative Tools:

- Administrators can manage user accounts, roles, and permissions.
- Administrators can access analytics reports on user engagement, course completion rates, and platform usage.

➤ Non-Functional Requirements:

Non-functional requirements define the quality attributes, constraints, and limitations of the system. For OLPSD, non-functional requirements may include:

Performance:

- The system should respond to user actions promptly, with minimal latency.
- The platform should support a large number of concurrent users without degradation in performance.

Usability:

- The user interface should be intuitive, user-friendly, and accessible to users of all skill levels.

Security:

- User data should be encrypted during transmission and storage.
- The platform should implement secure authentication mechanisms to prevent unauthorized access.

Reliability:

- The system should be available and operational 24/7, with minimal downtime for maintenance.
- Backup and recovery mechanisms should be in place to ensure data integrity and continuity of service.

Scalability:

- The platform should be able to scale up to accommodate a growing user base and increasing demand for courses and resources.

2.2 Targeted Users:

The targeted users of OLPSD include:

- Learners: Individuals seeking personal or professional development through online courses and educational resources.
- Instructors: Subject matter experts or educators who create and manage courses on the platform.
- Administrators: Platform administrators responsible for managing user accounts, course catalogue, and platform settings.

3. SYSTEM DESIGN

3.1 Use Case Diagram:

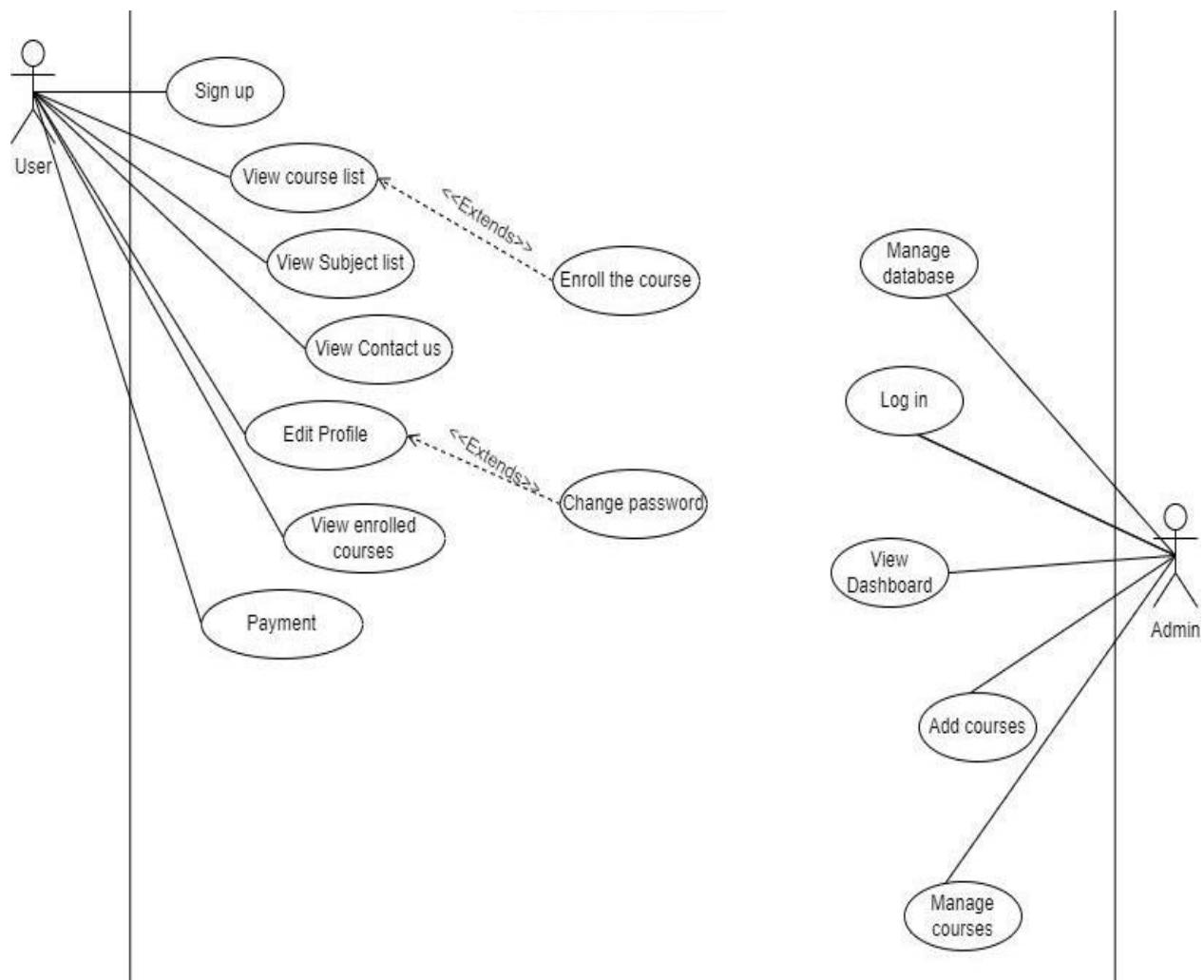
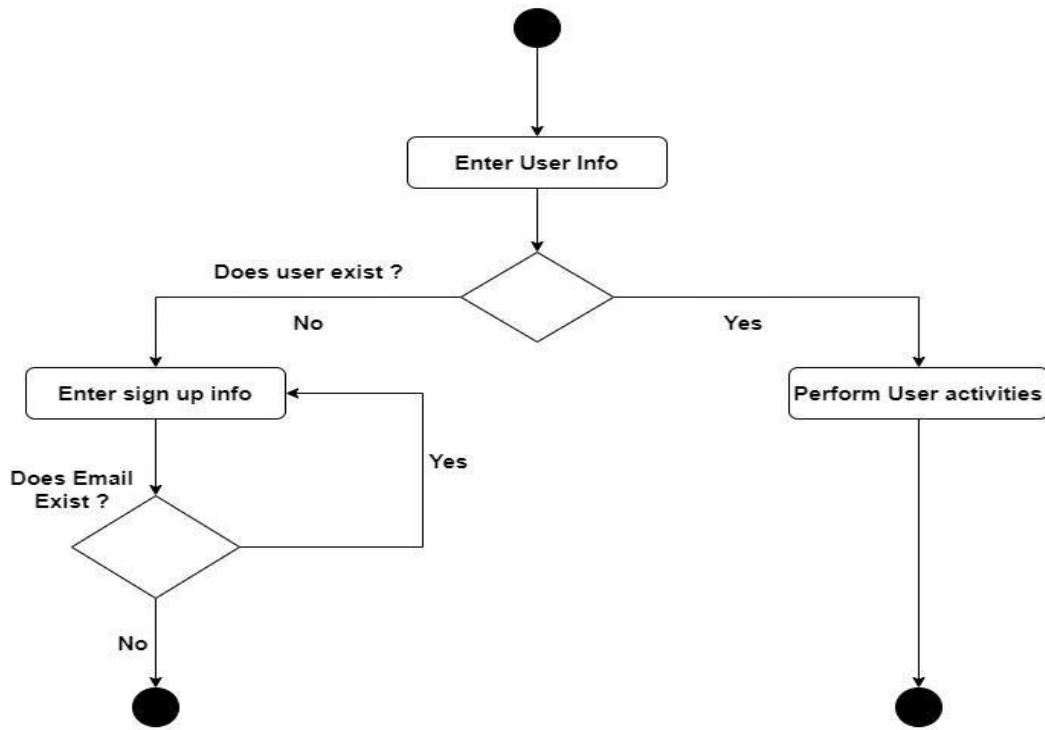


FIG 3.1.1 Use Case Diagram

3.2 Activity Diagram:**FIG 3.2.1 Activity Diagram**

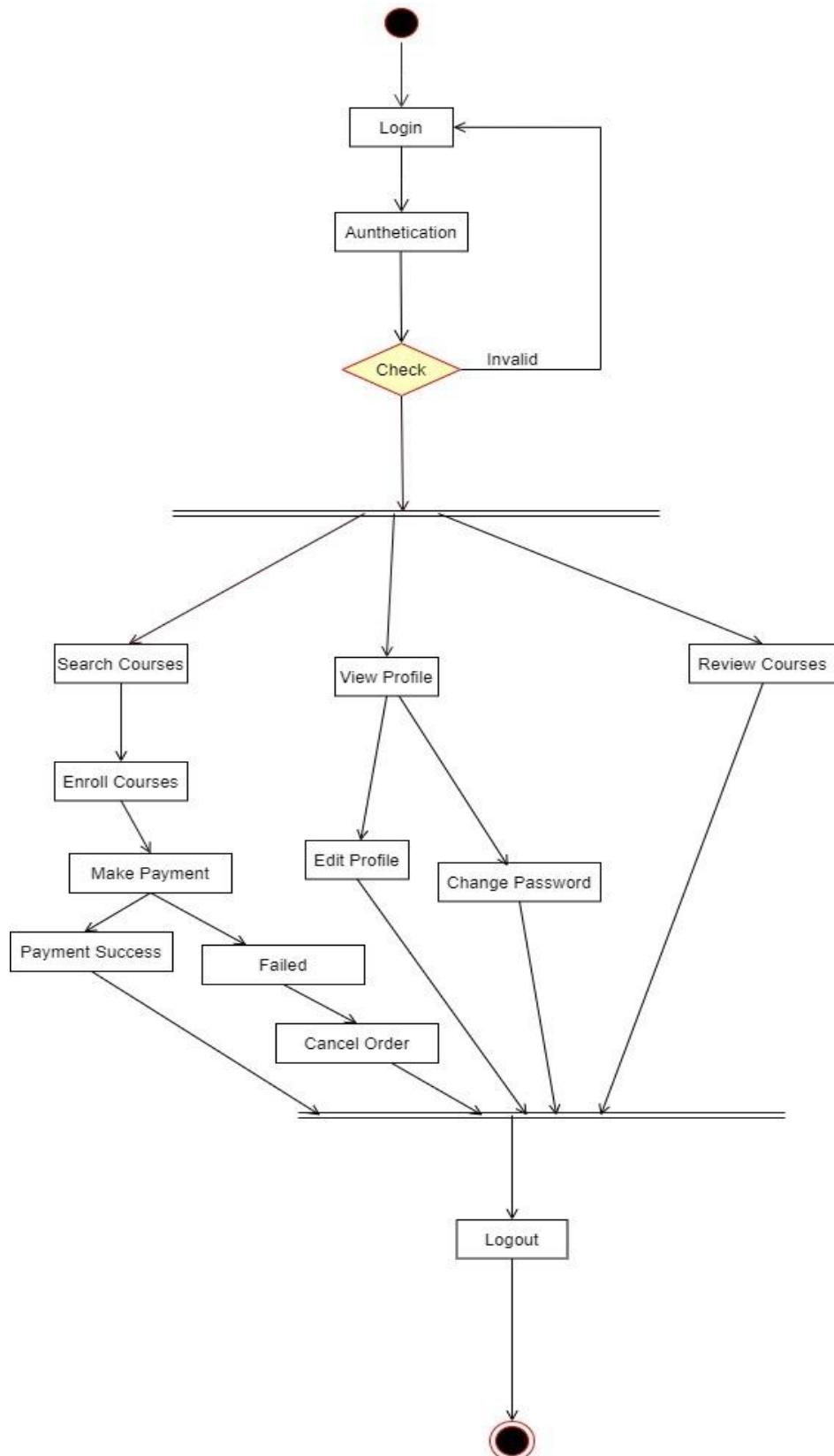


FIG 3.2.2

3.3 Interaction Diagram:

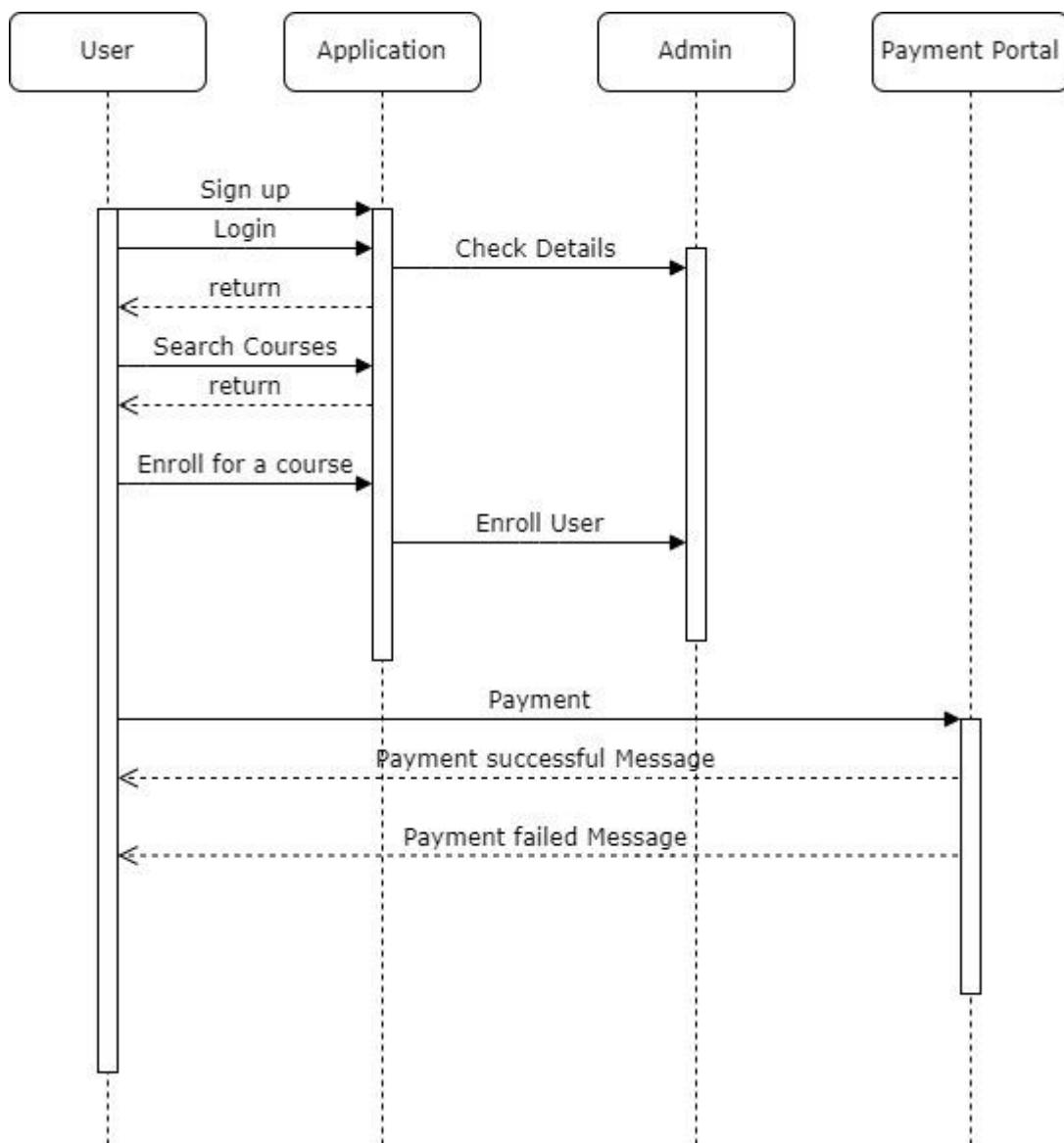


FIG 3.2.1

3.4 Data Dictionary:

User:

Fields	Type	Null	Key	Default	Extra
_id	string	No		NULL	
firstName	String	No		NULL	
lastName	String	No		NULL	
Gender	String	No		NULL	
Email	String	No		NULL	
Password	string	No		NULL	
mobile	Number	No		NULL	
Address	String	No		NULL	
City	String	No		NULL	
Country	String	No		NULL	
State	String	No		NULL	
Pincode	String	No		NULL	
Password	String	No		NULL	
profileImg	String	No		NULL	
createdBy	String	No		NULL	
updatedBy	String	No		NULL	
createdAt	datetime	No		NULL	
updatedAt	datetime	No		NULL	

Category:

Fields	Type	Null	Key	Default	Extra
_id	string	No		NULL	
categoryName	String	No		NULL	
createdBy	String	No		NULL	
updatedBy	String	No		NULL	
createdAt	datetime	No		NULL	
updatedAt	datetime	No		NULL	

SubCategory:

Fields	Type	Null	Key	Default	Extra
_id	string	No		NULL	
subCategoryName	String	No		NULL	
categoryId	String	No		NULL	
createdBy	String	No		NULL	
updatedBy	String	No		NULL	
createdAt	datetime	No		NULL	
updatedAt	datetime	No		NULL	

Programming Languages:

Fields	Type	Null	Key	Default	Extra
_id	string	No		NULL	
programmingLanguageName	String	No		NULL	
subCategoryId	String	No		NULL	

Chapter:

Fields	Type	Null	Key	Default	Extra
_id	string	No		NULL	
course	string	No		NULL	
chapterName	string	No		NULL	
createdBy	String	No		NULL	
updatedBy	String	No		NULL	
createdAt	datetime	No		NULL	
updatedAt	datetime	No		NULL	

userLogin:

Fields	Type	Null	Key	Default	Extra
_id	string	No		NULL	
email	string	No		NULL	
password	string	No		NULL	

Course:

Fields	Type	Null	Key	Default	Extra
_id	string	No		NULL	Auto_increment
name	String	No		NULL	
category	String	No		NULL	
subCategory	String	No		NULL	
programmingLanguage	String	No		NULL	
level	string	No		NULL	
overview	Number	No		NULL	
description	String	No		NULL	
requirement	String	No		NULL	
price	String	No		NULL	
discount	String	No		NULL	
language	String	No		NULL	
courseImg	String	No		NULL	
review	String	No		NULL	
video	String	No		NULL	
content	String	No		NULL	
createdBy	String	No		NULL	
updatedBy	String	No		NULL	
createdAt	datetime	No		NULL	
updatedAt	datetime	No		NULL	

instructorLogin:

Fields	Type	Null	Key	Default	Extra
_id	string	No		NULL	
email	string	No		NULL	
password	string	No		NULL	

Instructor:

Fields	Type	Null	Key	Default	Extra
_id	string	No		NULL	
name	String	No		NULL	
Gender	String	No		NULL	
Email	String	No		NULL	
Password	string	No		NULL	
mobile	Number	No		NULL	
profileImg	String	No		NULL	
Experience	String	No		NULL	
About	String	No		NULL	
linkedInLink	String	No		NULL	
DiscordLink	String	No		NULL	
InstagramLink	String	No		NULL	
twitterLink	String	No		NULL	
createdBy	String	No		NULL	
updatedBy	String	No		NULL	
createdAt	datetime	No		NULL	
updatedAt	datetime	No		NULL	

ContentFile:

Fields	Type	Null	Key	Default	Extra
_id	string	No		NULL	
ppt	string	No		NULL	
pdf	string	No		NULL	
course	string	No		NULL	
createdBy	String	No		NULL	
updatedBy	String	No		NULL	
createdAt	datetime	No		NULL	
updatedAt	datetime	No		NULL	

Content Video:

Fields	Type	Null	Key	Default	Extra
_id	string	No		NULL	
chapterName	string	No		NULL	
thumbnail	string	No		NULL	
videoLink	string	No		NULL	
createdBy	String	No		NULL	
updatedBy	String	No		NULL	
createdAt	datetime	No		NULL	
updatedAt	datetime	No		NULL	

Review:

Fields	Type	Null	Key	Default	Extra
_id	string	No		NULL	
course	String	No		NULL	
user	String	No		NULL	
rate	String	No			
experience	string	No		NULL	
createdBy	String	No		NULL	
updatedBy	String	No		NULL	
createdAt	datetime	No		NULL	
updatedAt	datetime	No		NULL	

4. DEVELOPMENT

4.1 Coding Standards:

OLPSD was developed using React JS, Node JS, Express JS, MongoDB. The code was also reviewed by a team of developers to ensure maintainable, readable and adheres to best practices. Here are some coding standards tailored to each technology:

➤ HTML:

- Use lowercase tags and attributes for consistency.
- Indent nested elements to improve readability.
- Use semantic HTML elements for better accessibility and SEO.
- Include comments to explain complex sections or to provide context for future developers.
- Use meaningful names for IDs and classes.

➤ CSS:

- Follow a consistent naming convention (e.g., BEM, OOCSS) for classes to maintain clarity and organization.
- Group related CSS rules together.
- Use shorthand properties where possible to reduce code duplication.
- Avoid using inline styles; instead, use external CSS files.
- Minimize the use of !important and inline styles to prevent specificity issues.

➤ JavaScript:

- Follow a consistent naming convention for variables, functions, and classes (e.g., camelCase).
- Use descriptive names that reflect the purpose and functionality of variables and functions.
- Break down complex tasks into smaller, modular functions for better readability and maintainability.
- Use comments to document the purpose of functions, complex logic, and potential pitfalls.
- Use strict mode ('use strict') to enforce stricter parsing and error

handling.

- Avoid global variables and polluting the global namespace.

➤ **Node.js and Express.js:**

- Use ES6 features (e.g., arrow functions, const/let, destructuring) for cleaner and more concise code.
- Organize routes, middleware, and controllers logically to improve code structure and maintainability.
- Use middleware for common tasks such as error handling, authentication, and request validation.
- Implement error handling middleware to catch and handle errors uniformly across the application.
- Use environment variables for configuration values and sensitive information.
- Implement logging to track application behavior and diagnose issues.

➤ **MongoDB:**

- Follow consistent naming conventions for collections/tables, fields, and indexes.
- Use appropriate data types and constraints to ensure data integrity and efficiency.
- Normalize database schema to reduce redundancy and improve maintainability.
- Use indexes for frequently queried fields to optimize query performance.

➤ **React.js:**

- Follow the JSX syntax for writing components.
- Use functional components whenever possible, and utilize hooks for state and side effects.
- Break down UI into smaller, reusable components for better modularity and maintainability.
- Use prop types or TypeScript for type checking and documentation.
- Keep component logic separate from presentation by following the container/component pattern.
- Utilize React Router for client-side routing and navigation.

4.2 Screen Shots:

4.2.1 Sign-up

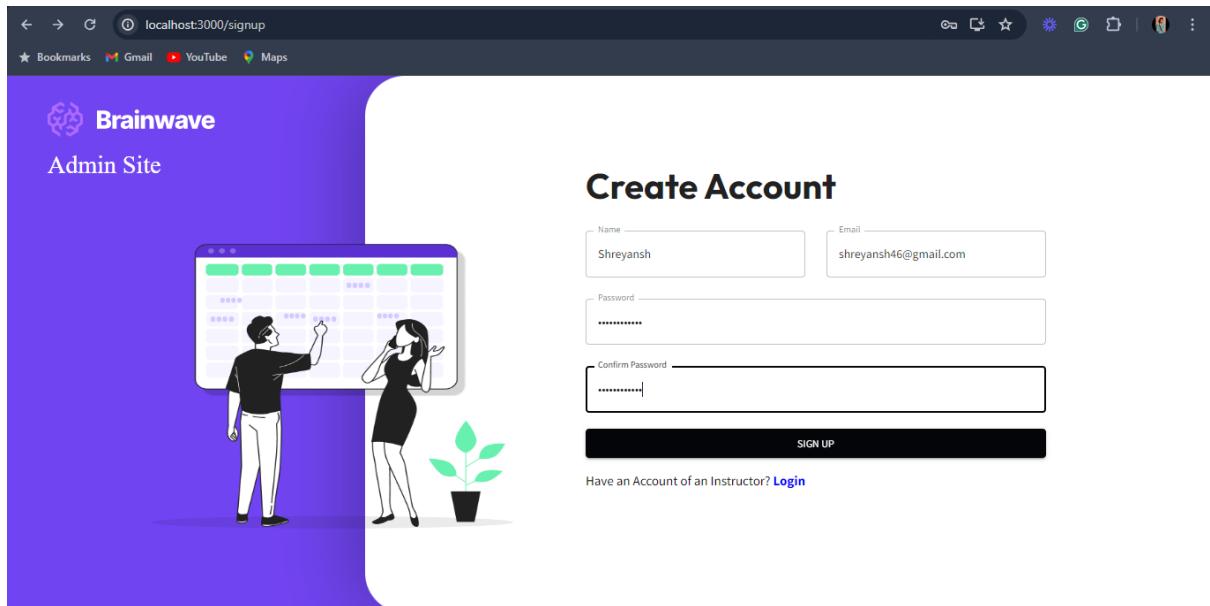


FIG – 4.2.1

4.2.2 Login

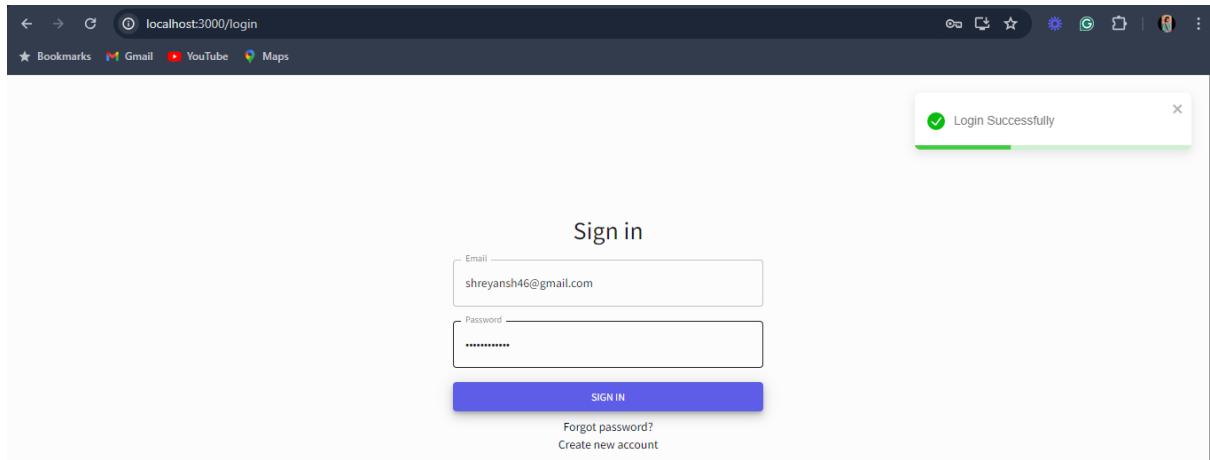


FIG – 4.2.2

4.2.3 Update Profile

The screenshot shows the 'Update Profile' page. On the left is a sidebar with 'OLPSD' at the top, followed by a user profile picture of Nishit Patel, Admin, and a list of menu items: Dashboard, Data (Manage Courses, Student Information, Manage Categories), Pages (Profile Form, Schedules). The main area has a search bar and a user profile picture. Below it are input fields for Name (Nishit Desai), Email (nishitpatel28@gmail.com), Mobile Number (6355998870), Password (*****), LinkedIn Link (<https://www.linkedin.com/in/nishit-patel-6650b1188/>), and Gender (male). A black 'UPDATE' button is at the bottom.

FIG - 4.2.3 Update Profile

4.2.4 Update Profile Success

The screenshot shows the 'Update Profile' page after successful update. The interface is identical to Figure 4.2.3, but a green notification bar at the top right displays a checkmark icon and the text 'Profile updated Successfully!'. The rest of the page content remains the same.

FIG - 4.2.4 Update Profile Success

4.2.5 Dashboard

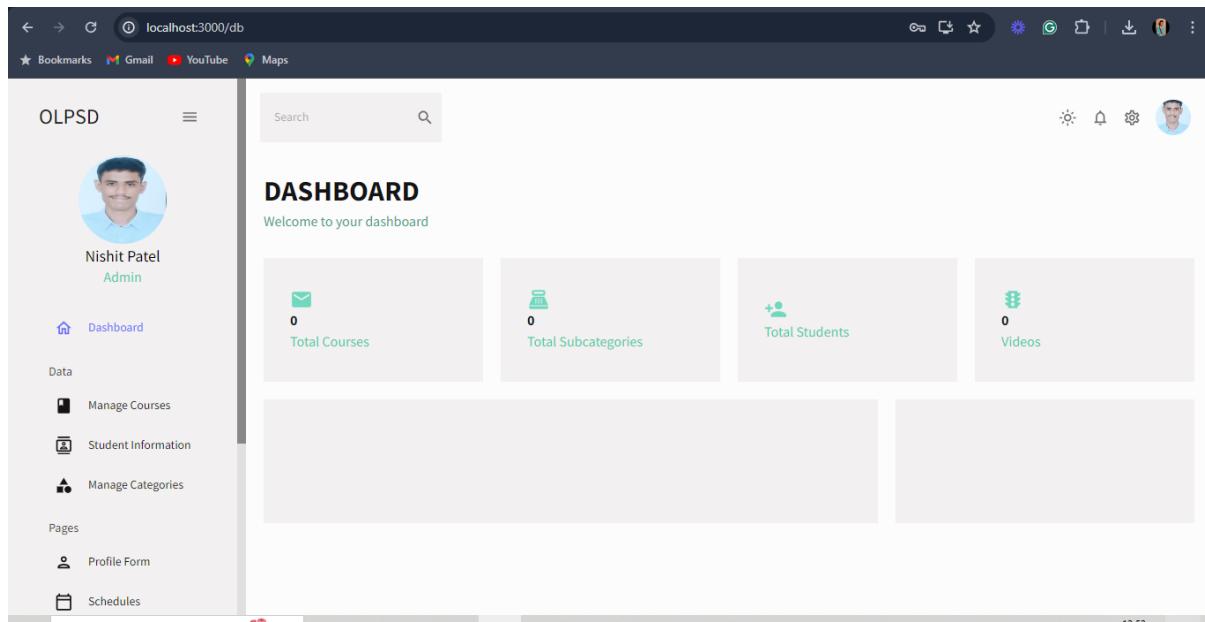


FIG – 4.2.5 Dashboard

4.2.6 Dark mode

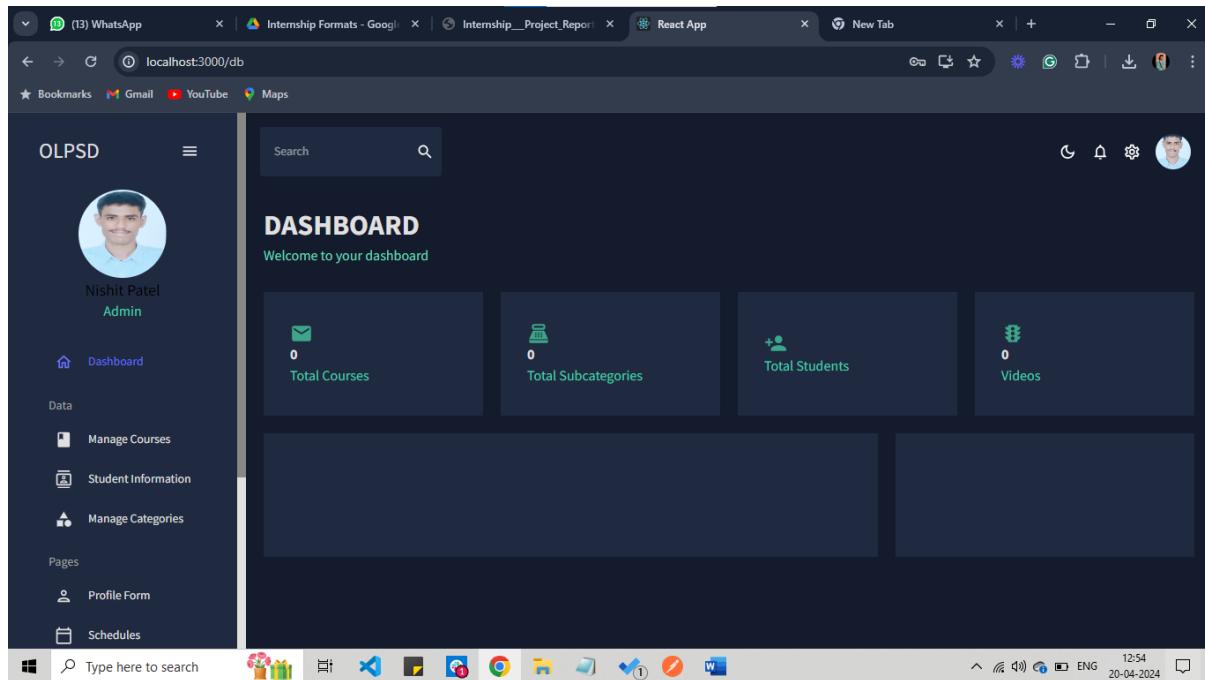


FIG – 4.2.6 Dashboard Dark Mode

4.2.7 Create Course

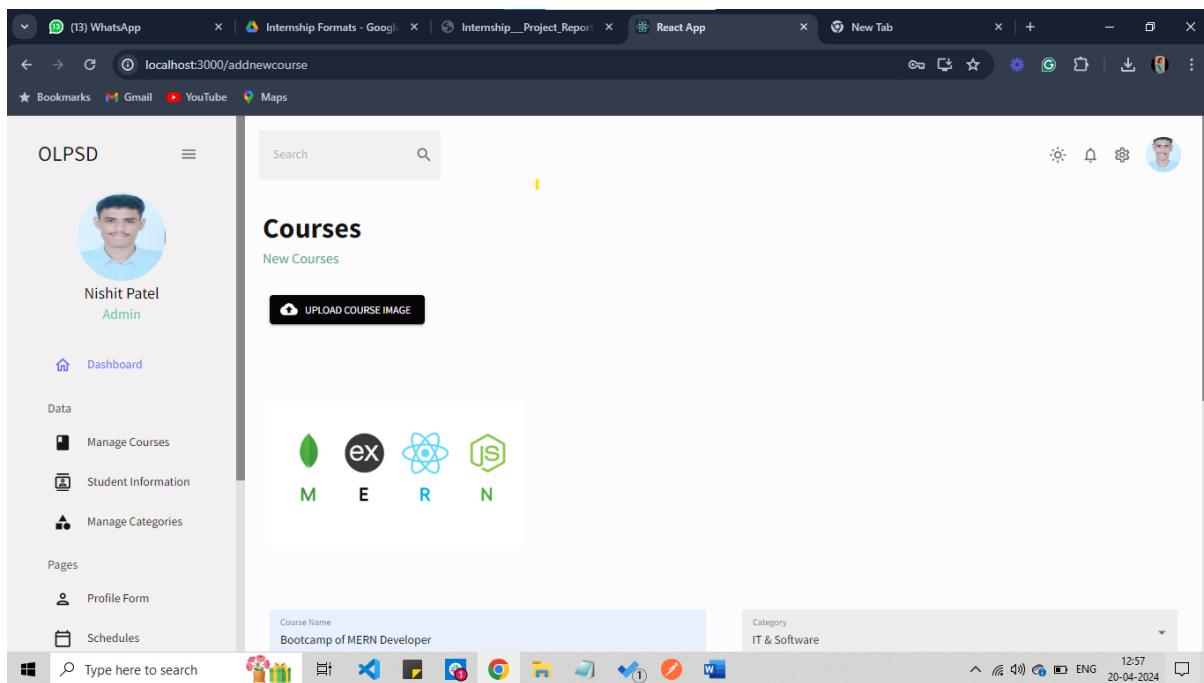


FIG - 4.2.7 Create Course

4.2.8 Create Course

Course Name Bootcamp of MERN Developer	Category IT & Software
Subcategory Full Stack Development	Programming Language JavaScript
Language Hindi	Level Beginner
Price 2000	Discount 15
Overview This is bootcamp of MERN Stack developers	Description It includes three projects.
Requirements Basic knowledge of HTML, Javascript	Deadline of Course 01-12-2050

FIG - 4.2.8 Create Course

4.2.9 Created Course on manage course page

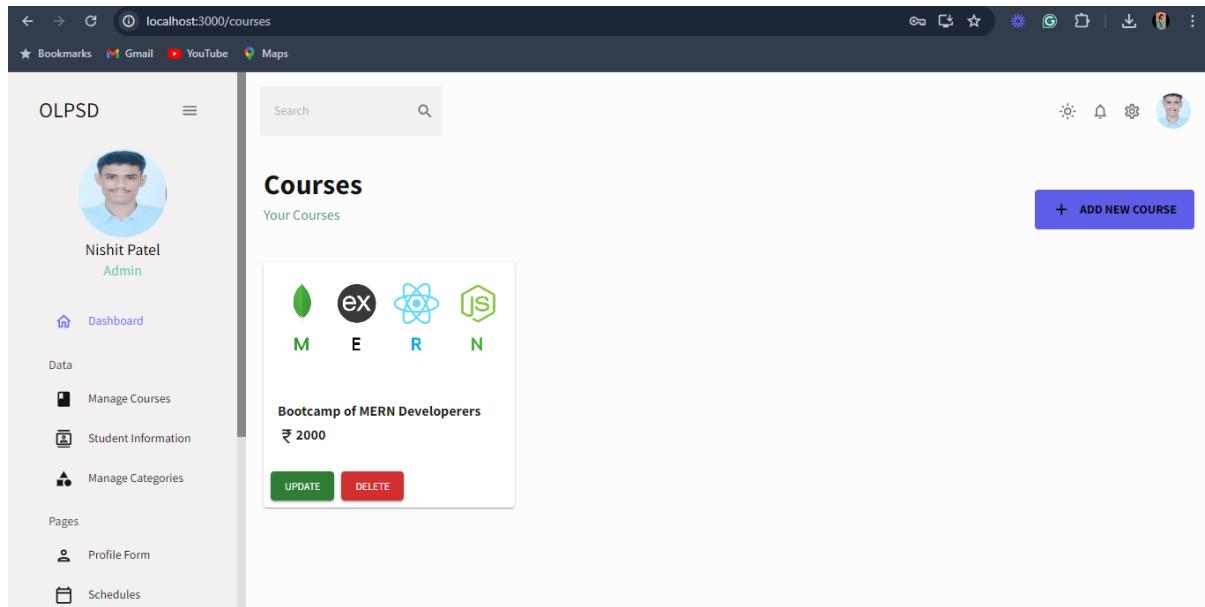


FIG - 4.2.9 Manage Course

4.2.10 Add on Course No

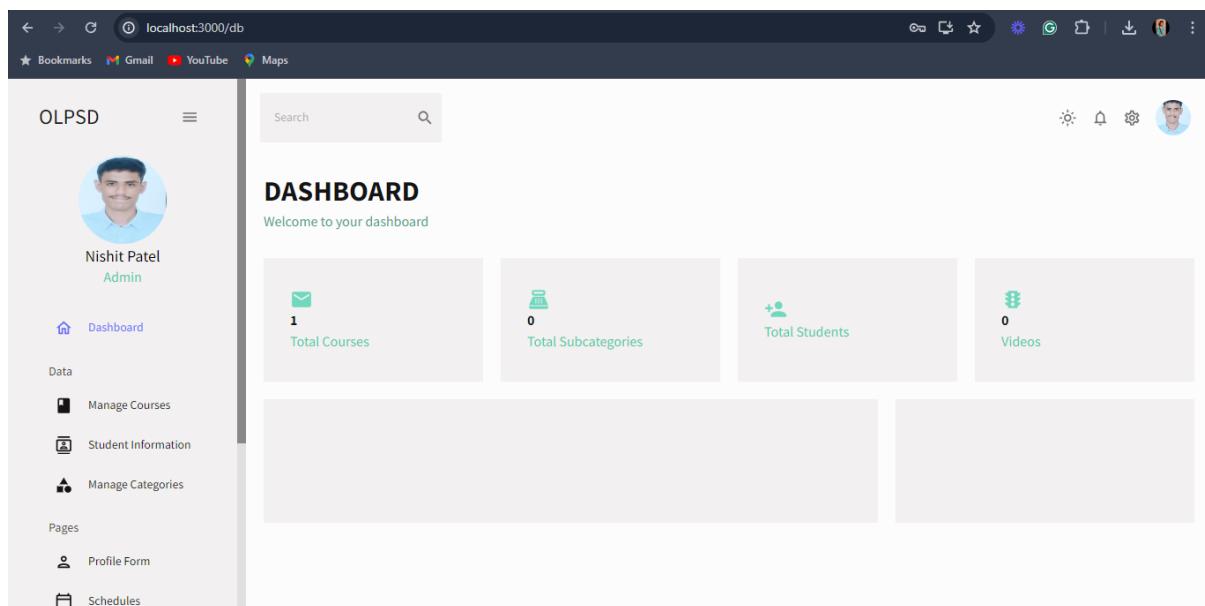


FIG - 4.2.10 Dashboard

4.2.11 Update Course

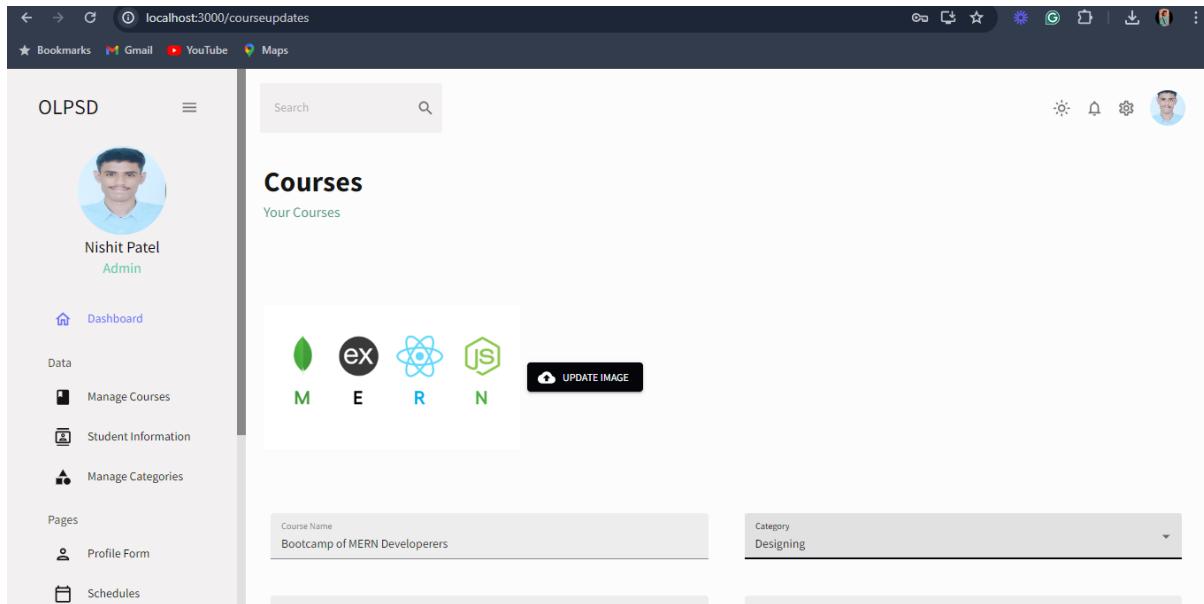


FIG - 4.2.11 Update Course

4.2.12 Update Course

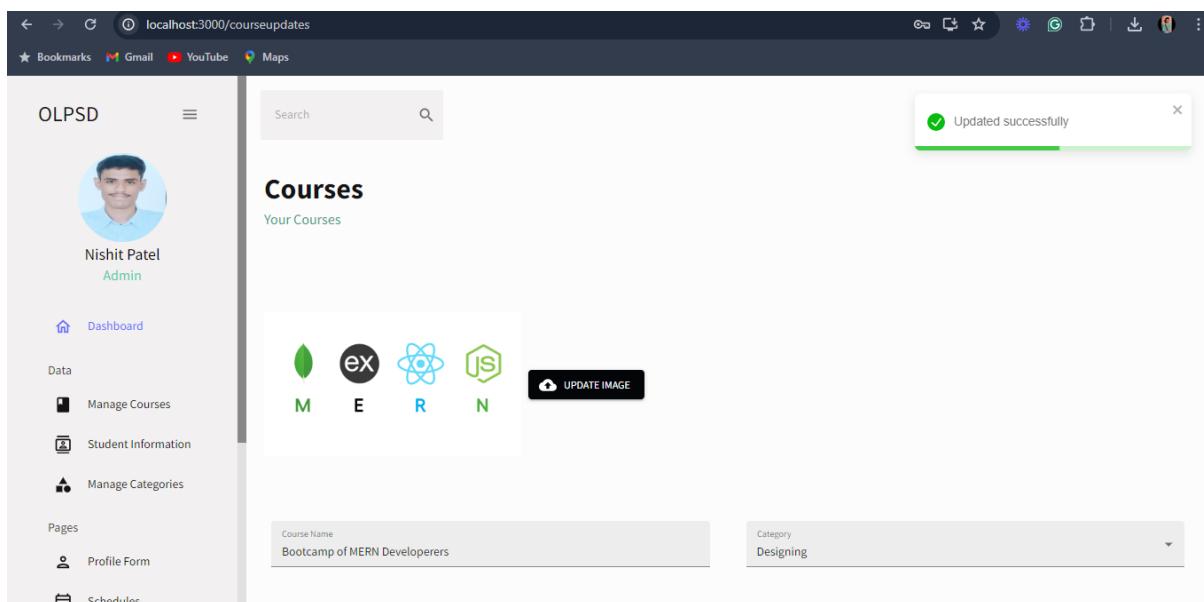


FIG - 4.2.12 Update Course Success

4.2.13 Manage Subcategories, Programming Language, Content Videos

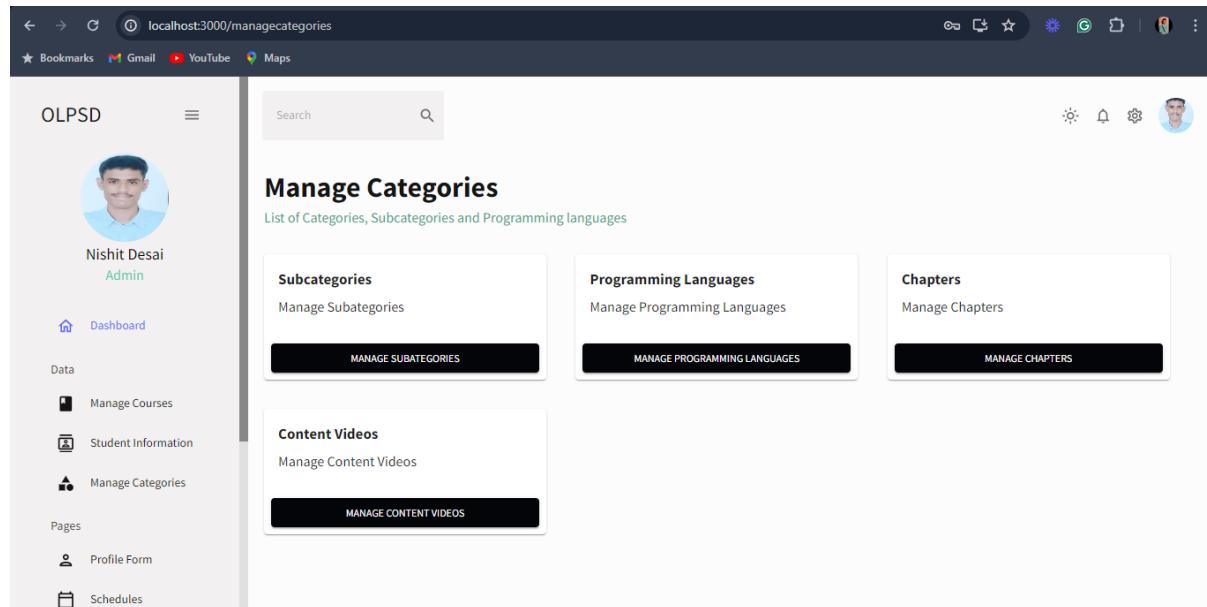


FIG - 4.2.13 Manage Categories

4.2.14 Delete Course

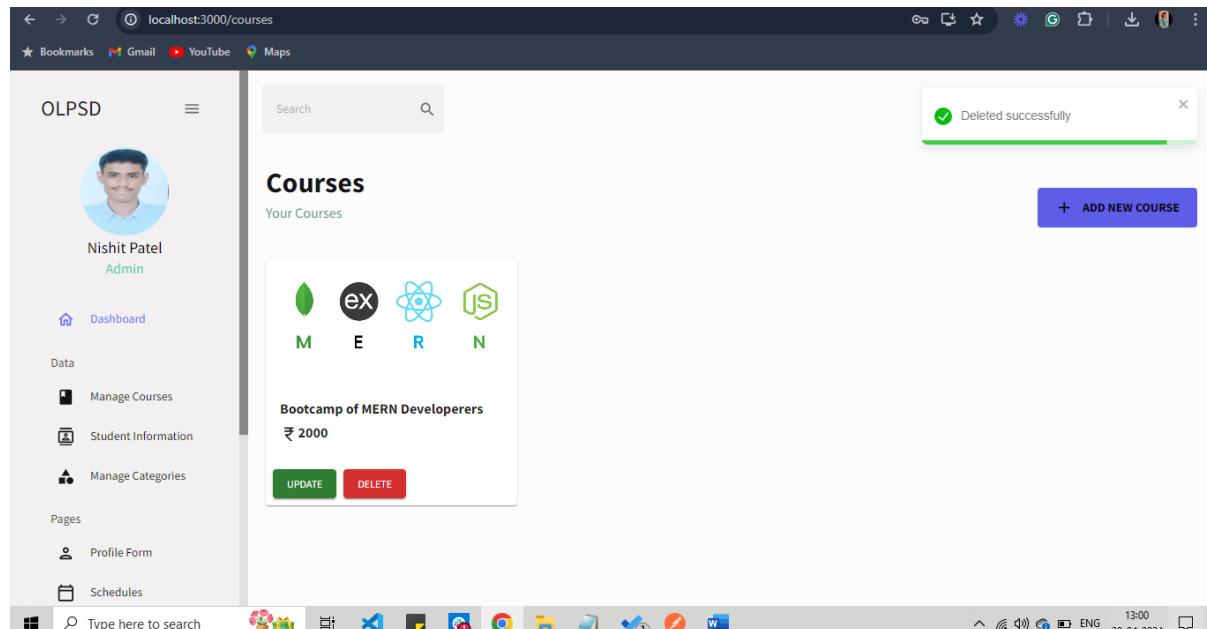


FIG - 4.2.14 Delete Course

4.2.15 Dashboard with Manage Subcategory

The screenshot shows a web-based dashboard titled 'OLPSD'. On the left, there's a sidebar with a user profile of 'Nishit Desai' (Admin), navigation links for 'Dashboard', 'Data' (with 'Manage Courses', 'Student Information', and 'Manage Categories'), 'Pages' (with 'Profile Form' and 'Schedules'), and a search bar at the top.

The main content area is titled 'Manage Subcategories' and displays a table of subcategories:

ID	Subcategory Name	Category Name	Action
0	Frontend Development	IT & Software	
1	Backend Development	IT & Software	
2	Full Stack Developements	IT & Software	
3	Graphic	Designing	
4	Database	IT & Software	
5	System Design	IT & Software	

A blue button labeled '+ ADD NEW SUB CATEGORY' is located in the top right corner of the main content area.

FIG 4.2.15 Dashboard with Manage Subcategory

4.2.16 Dashboard with Create Subcategory

This screenshot is similar to the previous one, showing the 'Manage Subcategories' dashboard. However, a modal window is open in the center, titled 'Add Sub Category'. It contains two input fields: 'Subcategory Name' with the value 'Business in IT' and 'Category' with a dropdown menu showing 'IT & Software'. At the bottom of the modal is a large black button labeled 'ADD NEW SUB CATEGORY'.

The main table of subcategories is partially visible in the background, showing rows 0 through 6.

FIG 4.2.16 Dashboard with Create Subcategory

4.2.17 Dashboard with Updated Manage Categories

The screenshot shows a web-based dashboard titled "OLPSD". On the left, there is a sidebar with user information (Nishit Desai, Admin) and navigation links for Dashboard, Data (Manage Courses, Student Information, Manage Categories), Pages (Profile Form, Schedules), and DRMS. The main content area is titled "Manage Subcategories" and displays a table of subcategories. The table has columns for ID, Subcategory Name, Category Name, and Action. The data in the table is as follows:

ID	Subcategory Name	Category Name	Action
1	Backend Developers	IT & Software	
9	BDO	Graphic Designing	
10	Business in IT	IT & Software	
4	Database	IT & Software	
7	Database1	IT & Software	
6	IT & Software		

A blue button at the top right of the main content area says "+ ADD NEW SUB CATEGORY". A modal window titled "Update Sub Category" is open in the center, showing fields for "Subcategory Name" (Business in IT) and "Category" (IT & Software). A "UPDATE SUB CATEGORY" button is at the bottom of the modal.

FIG 4.2.17 Dashboard with Manage Subcategory

4.2.18 Dashboard with Updated Subcategory

This screenshot is similar to Figure 4.2.17, showing the "Manage Subcategories" page. The modal window now displays the updated subcategory information. The "Subcategory Name" field shows "Business", and the "Category" dropdown shows "IT & Software". The "UPDATE SUB CATEGORY" button is highlighted at the bottom of the modal.

FIG 4.2.18 Dashboard with Update Subcategory

4.2.19 Dashboard with Updated Manage Category success

The screenshot shows a web browser window with the URL localhost:3000/manageallsubcategories. The page title is "Manage Subcategories". On the left, there is a sidebar with a user profile picture of Nishit Desai (Admin) and navigation links for Dashboard, Data (Manage Courses, Student Information), Pages, and Profile Form. The main content area has a search bar and a button to "ADD NEW SUB CATEGORY". A table lists four subcategories: Frontend Development, Backend Developement, Full Stack Developements, and Business in IT & Software, all under the "IT & Software" category. To the right of each row are edit and delete icons. A blue success toast notification at the top right says "Deleted successfully".

ID	Subcategory Name	Category Name	Action
0	Frontend Development	IT & Software	
1	Backend Developement	IT & Software	
2	Full Stack Developements	IT & Software	
3	Business in IT & Software	IT & Software	

FIG 4.2.19 Dashboard with Update Subcategory

4.2.20 Dashboard with Delete Subcategory

The screenshot shows a web browser window with the URL localhost:3000/managecategories. The page title is "Manage Subcategories". The sidebar and table structure are identical to Figure 4.2.19. A blue success toast notification at the top right says "Deleted successfully".

ID	Subcategory Name	Category Name	Action
1	Backend Developement	IT & Software	
9	BDO	Graphic Designing	
10	Business in IT	IT & Software	
4	Database	IT & Software	

FIG 4.2.20 Dashboard with Delete Subcategory

4.2.21 Dashboard with Manage Programming Languages

The screenshot shows a web-based dashboard titled "Manage Programming Languages". On the left, there is a sidebar with a user profile for "Nishit Desai Admin" and links to "Dashboard", "Data" (Manage Courses, Student Information, Manage Categories), and "Pages" (Profile Form). The main area displays a table with columns: ID, Programming Language Name, Subcategory Name, and Action. The data in the table is as follows:

ID	Programming Language Name	Subcategory Name	Action
0	Next JS	Full Stack Developements	
1	Rust	Frontend Development	
2	GO	Frontend Development	
3	JS	Full Stack Developements	
4	DSA	Full Stack Developements	

A prominent "ADD NEW PROGRAMMING LANGUAGES" button is located at the top right of the main content area.

FIG 4.2.21 Dashboard with Manage Programming Language

4.2.22 Dashboard with Create Programming Languages

The screenshot shows the same dashboard as Figure 4.2.21, but with a modal window open in the center. The modal is titled "Add Programming Languages" and contains fields for "Programming Language Name" (set to "Java") and "Subcategory" (set to "Backend Developement"). At the bottom of the modal is a large "ADD NEW PROGRAMMING LANGUAGE" button.

FIG 4.2.22 Dashboard with Create Programming Languages

4.2.23 Dashboard with manage Programming Languages

The screenshot shows a dashboard titled "Manage Programming Languages". On the left, there is a sidebar with a user profile of "Nishit Desai Admin" and links for "Dashboard", "Data", "Pages", and "Profile Form". The main area has a search bar and a button to "ADD NEW PROGRAMMING LANGUAGES". A table lists programming languages with their subcategories and actions:

ID	Programming Language Name	Subcategory Name	Action
4	DSA	Full Stack Developements	
2	GO	Frontend Development	
6	Java	Backend Developement	
3	JS	Full Stack Developements	
0	Next JS	Full Stack Developements	

FIG 4.2.23 Dashboard with Create Programming Language

4.2.24 Dashboard with manage update Programming Languages

The screenshot shows the same dashboard as above, but with a modal window open over the table. The modal is titled "Update Sub Category" and contains fields for "Programming Language Name" (set to "JavaScript") and "Subcategory" (set to "Full Stack Developements"). At the bottom of the modal is a "UPDATE SUB CATEGORY" button.

FIG 4.2.24 Dashboard with Update Programming Language

4.2.25 Dashboard with manage Programming Languages

The screenshot shows a web browser window with the URL localhost:3000/manageallprogramminglanguages. The page title is "Manage Programming Languages". On the left, there is a sidebar with a user profile for "Nishit Desai Admin" and navigation links for "Dashboard", "Data" (Manage Courses, Student Information, Manage Categories), and "Pages". The main content area has a search bar and a table listing programming languages:

ID	Programming Language Name	Subcategory Name	Action
0	Next JS	Full Stack Developements	
1	Rust	Frontend Development	
2	GO	Frontend Development	
3	JavaScript	Full Stack Developements	

A "List of Programming Languages" link is visible above the table, and a "ADD NEW PROGRAMMING LANGUAGES" button is at the top right.

FIG 4.2.25 Dashboard with manage Programming Language

4.2.26 Dashboard with manage chapters

The screenshot shows a web browser window with the URL localhost:3000/manageallchapters. The page title is "Manage Chapters". The sidebar and layout are identical to the previous dashboard. The main content area has a search bar and a table listing chapters:

ID	Chapter Name	Course Name	Action
0	Variables & DataTypes in Go Language	Bootcamp of Go Developer	
1	Introduction to Go Language	Bootcamp of Go Developer	

A "List of Chapters" link is visible above the table, and a "ADD NEW CHAPTER" button is at the top right.

FIG 4.2.26 Dashboard with manage chapters

4.2.27 Dashboard with add chapters

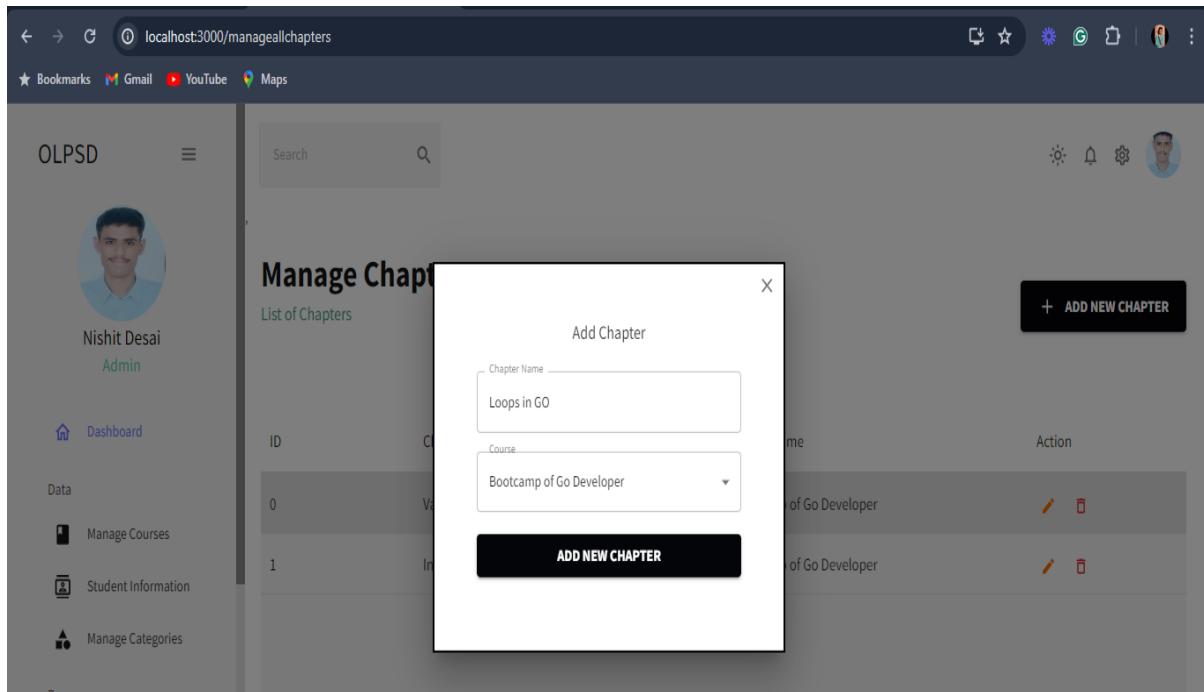


FIG 4.2.27 Dashboard with add Chapters

4.2.28 Dashboard with manage chapters

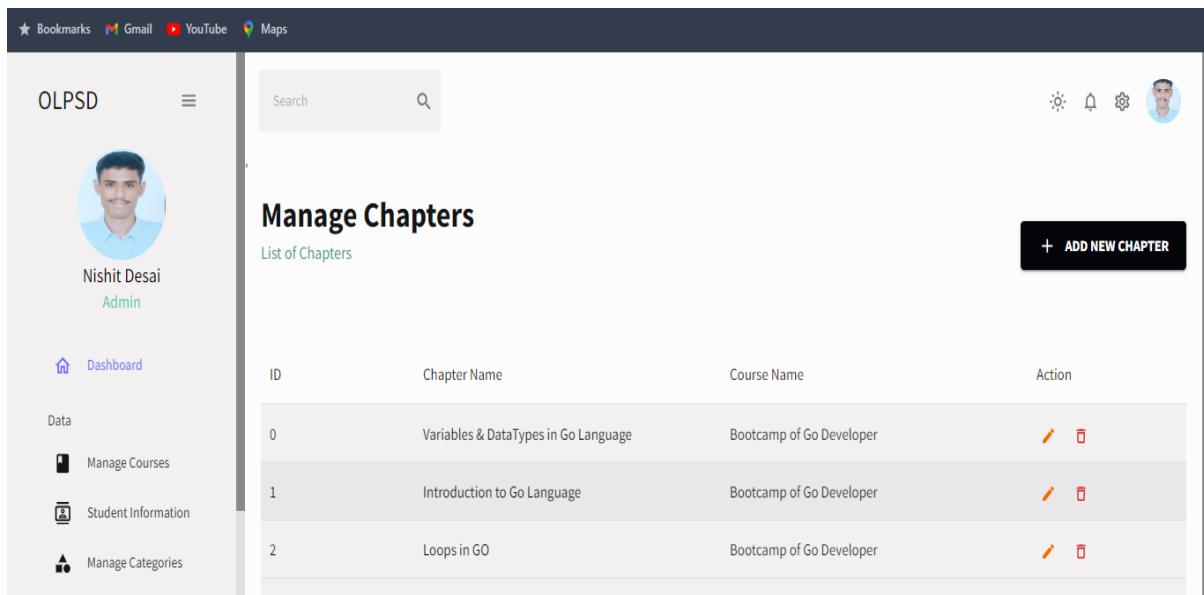


FIG 4.2.28 Dashboard with manage Chapters

4.2.29 Dashboard with update chapters

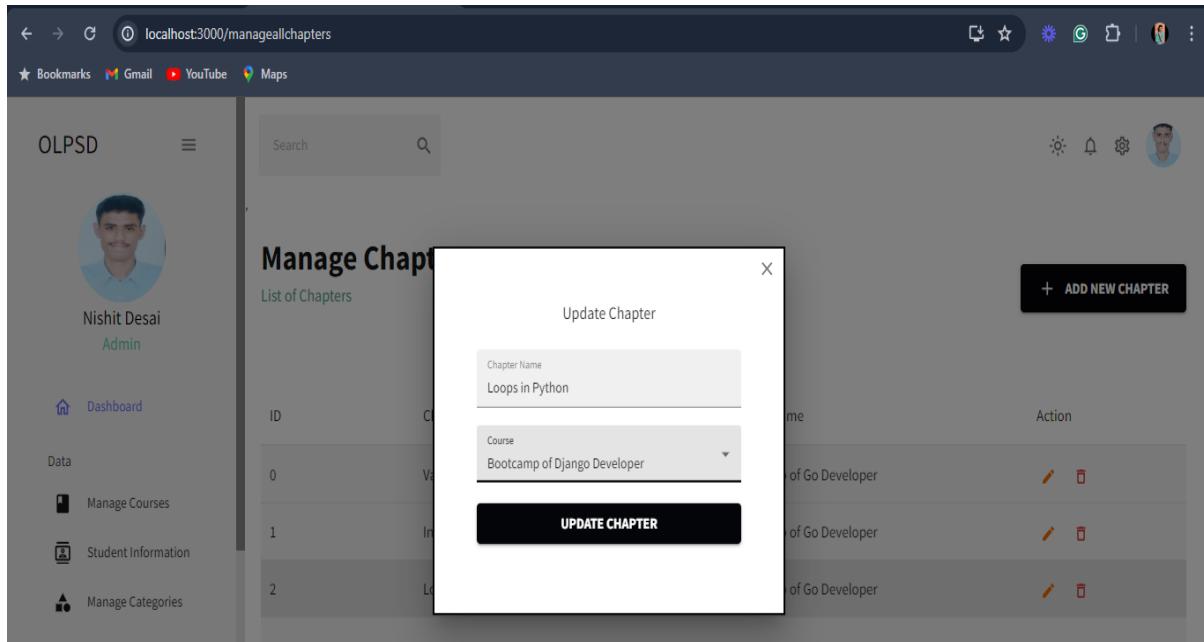


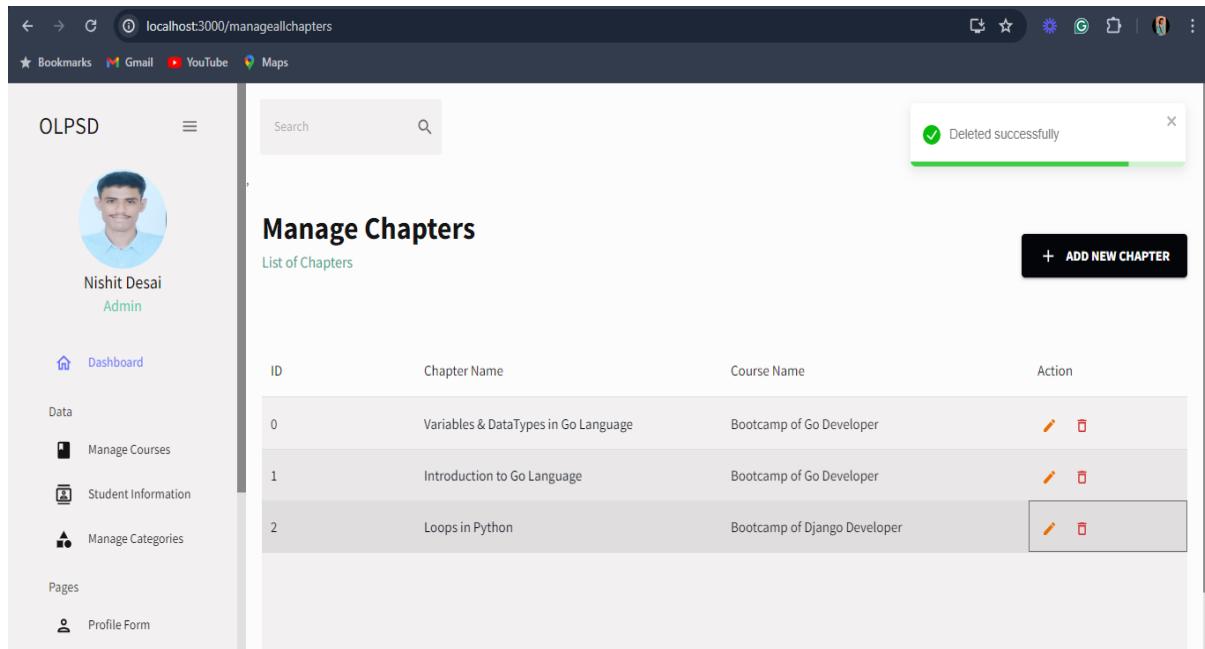
FIG 4.2.29 Dashboard with update Chapters

4.2.30 Dashboard with manage chapters

ID	Chapter Name	Course Name	Action
0	Variables & DataTypes in Go Language	Bootcamp of Go Developer	
1	Introduction to Go Language	Bootcamp of Go Developer	
2	Loops in Python	Bootcamp of Django Developer	

FIG 4.2.30 Dashboard with manage Chapters

4.2.31 Dashboard with delete chapters

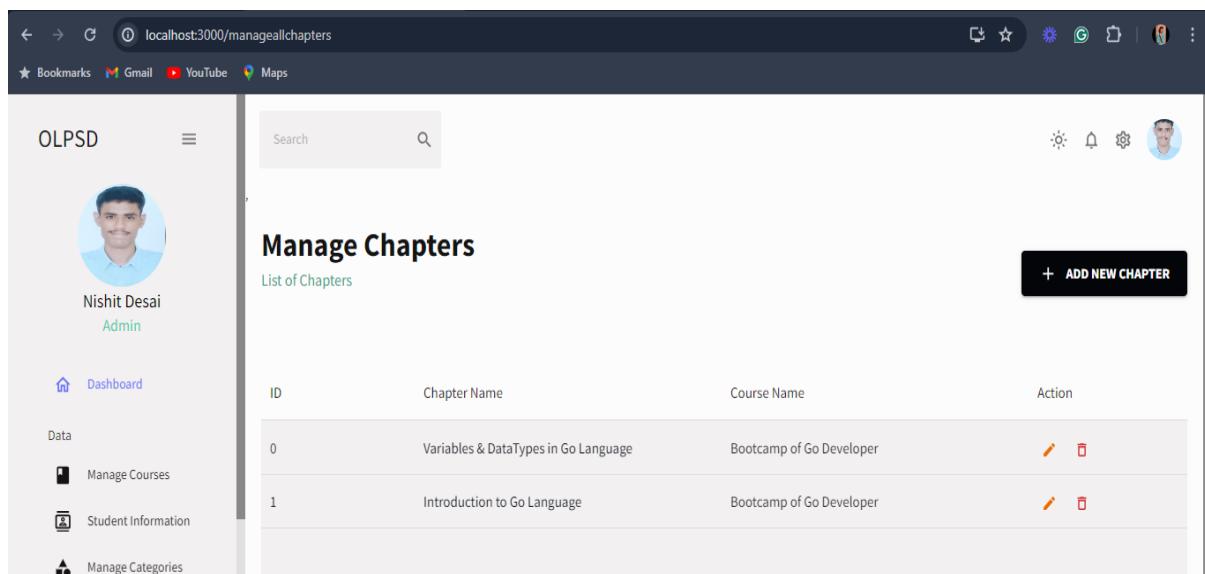


The screenshot shows a web browser window for 'localhost:3000/manageallchapters'. On the left, there's a sidebar with a user profile for 'Nishit Desai' (Admin) and links for Dashboard, Data (Manage Courses, Student Information, Manage Categories), Pages, and Profile Form. The main content area has a search bar and a button '+ ADD NEW CHAPTER'. A success message 'Deleted successfully' with a green checkmark is displayed. The table lists three chapters:

ID	Chapter Name	Course Name	Action
0	Variables & DataTypes in Go Language	Bootcamp of Go Developer	
1	Introduction to Go Language	Bootcamp of Go Developer	
2	Loops in Python	Bootcamp of Django Developer	

FIG 4.2.31 Dashboard with delete Chapters

4.2.32 Dashboard with Manage chapters



This screenshot is identical to Figure 4.2.31, showing the 'Manage Chapters' dashboard with the same user profile, sidebar links, and table of chapters. The table data is as follows:

ID	Chapter Name	Course Name	Action
0	Variables & DataTypes in Go Language	Bootcamp of Go Developer	
1	Introduction to Go Language	Bootcamp of Go Developer	
2	Loops in Python	Bootcamp of Django Developer	

FIG 4.2.32 Dashboard with manage Chapters

4.2.33 Dashboard with Manage content videos

The screenshot shows a web browser window with the URL localhost:3000/manageallcontentvideos. On the left, there is a sidebar with a user profile for 'Nishit Desai Admin' and links for Dashboard, Data, Manage Courses, Student Information, and Manage Categories. The main content area is titled 'Manage Content Videos' and contains a table with two rows of video data. A large 'ADD NEW CONTENT VIDEO' button is visible on the right.

ID	Thumbnail of Video	videoLink of Chapter	Chapter name	Action
0	Datatypes in Go	https://youtu.be/NV37yooHA054Y...	Variables & DataTypes in Go Lang...	
1	Objectives and Variables in GO	https://youtu.be/NV37yooHA054Y...	Variables & DataTypes in Go Lang...	

FIG 4.2.33 Dashboard with manage Content Videos

4.2.34 Dashboard with update content videos

The screenshot shows a 'Update Content Video' modal overlaid on the 'Manage Content Videos' dashboard. The modal contains fields for 'Thumbnail' (set to 'Objectives and Variables in GO'), 'Video Link' (<https://youtu.be/NV37yooHA054Y?si=mj11ORh8>), and 'Chapter' (set to 'Variables in Go Language'). At the bottom of the modal is a 'UPDATE CONTENT VIDEO' button. The background dashboard shows a list of content videos with two entries: 'Datatypes in Go' and 'Variables in Go Language'.

FIG 4.2.34 Dashboard with update Content Videos

4.2.35 Dashboard with manage content videos

The screenshot shows a web-based dashboard titled "Manage Content Videos". On the left, there's a sidebar with a user profile for "Nishit Desai" (Admin) and links for "Dashboard", "Data", "Manage Courses", "Student Information", and "Manage Categories". The main area has a search bar and a table listing content videos. The table columns are: ID, Thumbnail of Video, videoLink of Chapter, Chapter name, and Action. There are two rows of data:

ID	Thumbnail of Video	videoLink of Chapter	Chapter name	Action
0	Datatypes in Go	https://youtu.be/NV37yooHA054Y...	Variables in Go Language	
1	Objectives and Variables in GO	https://youtu.be/NV37yooHA054Y...	Variables in Go Language	

FIG 4.2.35 Dashboard with manage Content Videos

4.2.36 Website- Student Side Home Page

The screenshot shows the student side home page for "Brainwave". The top navigation includes "New account" and "Sign in". The main hero section features a large image of a smiling student holding books, with text overlay "Up Your Skills To Advance Your Career Path". Below this, a sub-section says "Provides you with the latest online learning system and material that help your knowledge growing." Two buttons are present: "Get Started" and "Login". To the right, there are three circular stats: "2000+ Videos", "50+ Online Courses", and "250+ Tutors". The bottom navigation bar includes links for "Home", "Explore Courses", and "My Courses".

FIG 4.2.36 Website Home Page

4.2.37 Website- Student Side Service Page

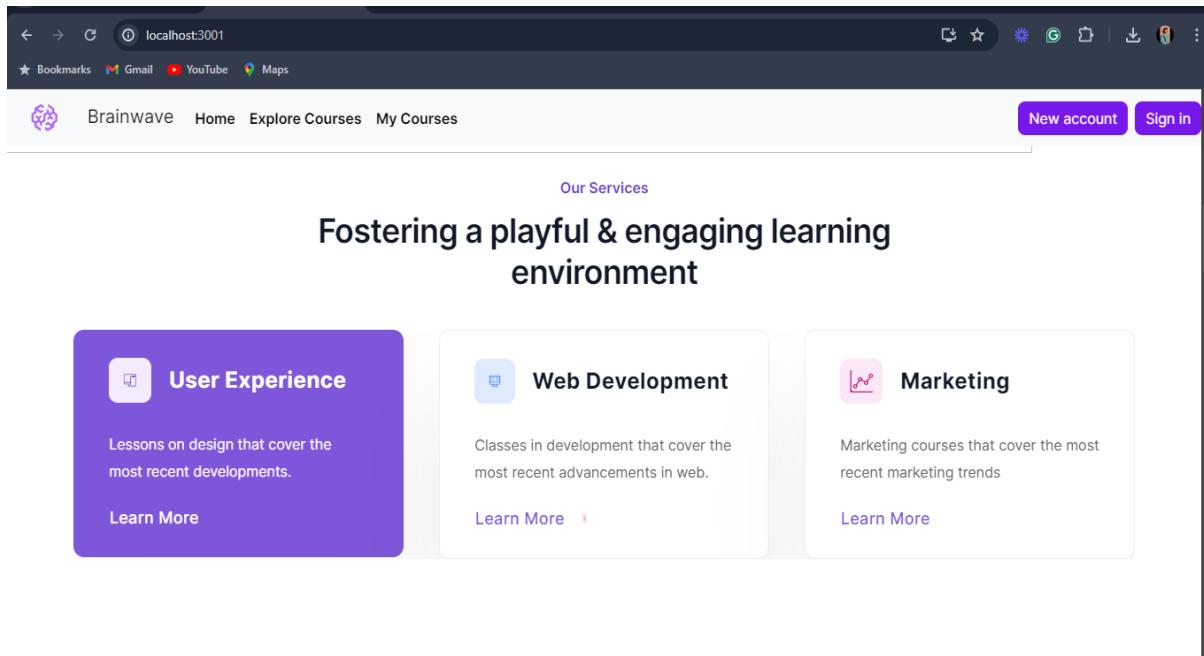


FIG 4.2.37 Website Service Section

4.2.38 Website- Student Side Popular Courses Section

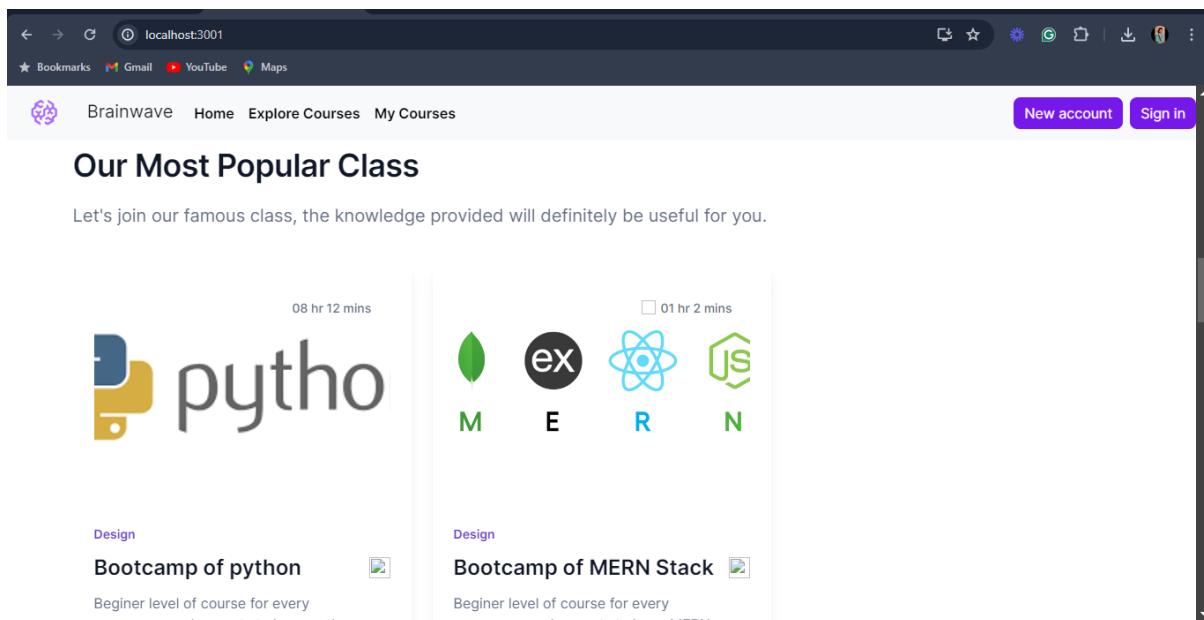


FIG 4.2.38 Website Popular Course Sectio

4.2.39 Website- Student Side About Instructors

The screenshot shows a web browser window with the URL 'localhost:3001'. The page title is 'Brainwave'. The main content area features a heading 'Meet the Heroes' with a sub-section 'Tutors'. Below this, there is a section titled 'On Ed-Circle, instructors from all over the world instruct millions of students. We offer the knowledge and abilities.' Four instructor profiles are displayed in a grid:

- Theresa Webb**
Application Support Analyst Lead
Former co-founder of Opendoor. Early staff at Spotify and Clearbit.
- Courtney Henry**
Director, Undergraduate Analytics and Planning
Lead engineering teams at Figma, Pitch, and Protocol Labs.
- Albert Flores**
Career Educator
Former PM for Linear, Lambda School, and On Deck.
- Marvin McKinney**
Co-op & Internships Program & Operations Manager
Former frontend dev for Linear, Coinbase, and Postscript.

Each profile includes a small circular photo of the instructor and two small purple icons below their names.

FIG 4.2.39 Website Instructors

4.2.40 Website- Student Side User Experience

The screenshot shows a web browser window with the URL 'localhost:3001'. The page title is 'Brainwave'. The main content area features a heading 'Courses was fantastic! It is Master platform for those looking to start a new career, or need a refresher.' Below this, there is a testimonial from a student:

Jacob Jones
Student, National University

At the bottom of the page, there is a footer bar with links: 'Home', 'Explore Courses', 'My Courses', 'New account', and 'Sign in'.

FIG 4.2.40 Website User Experience

4.2.41 Website- Student Side Blog Section

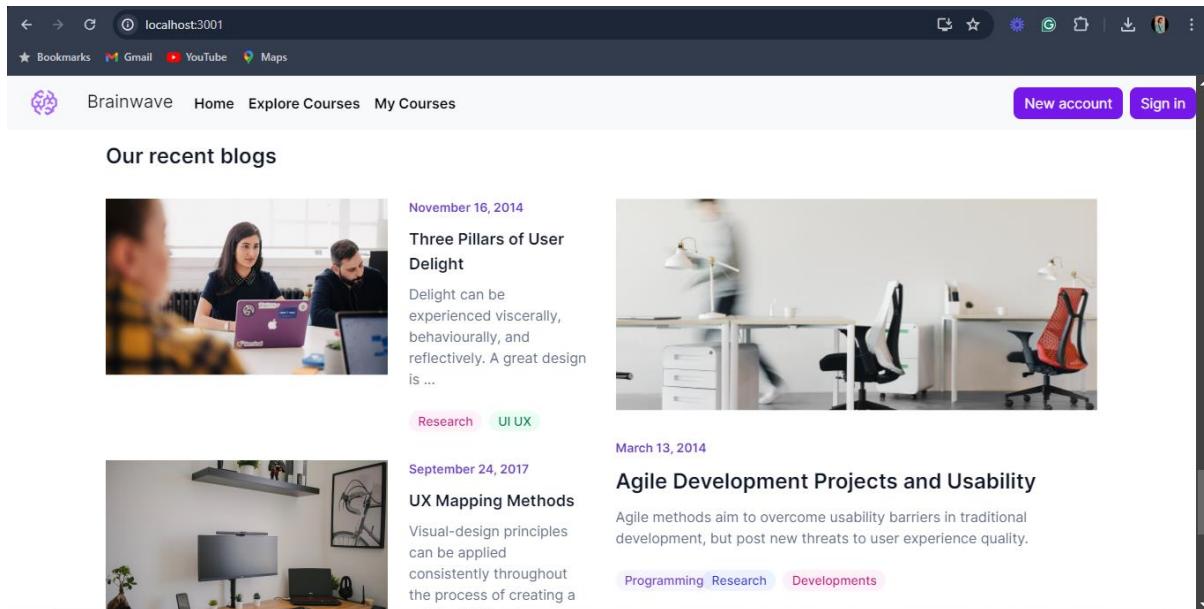


FIG 4.2.41 Website Blog Page

4.2.42 Website- Student Side Footer

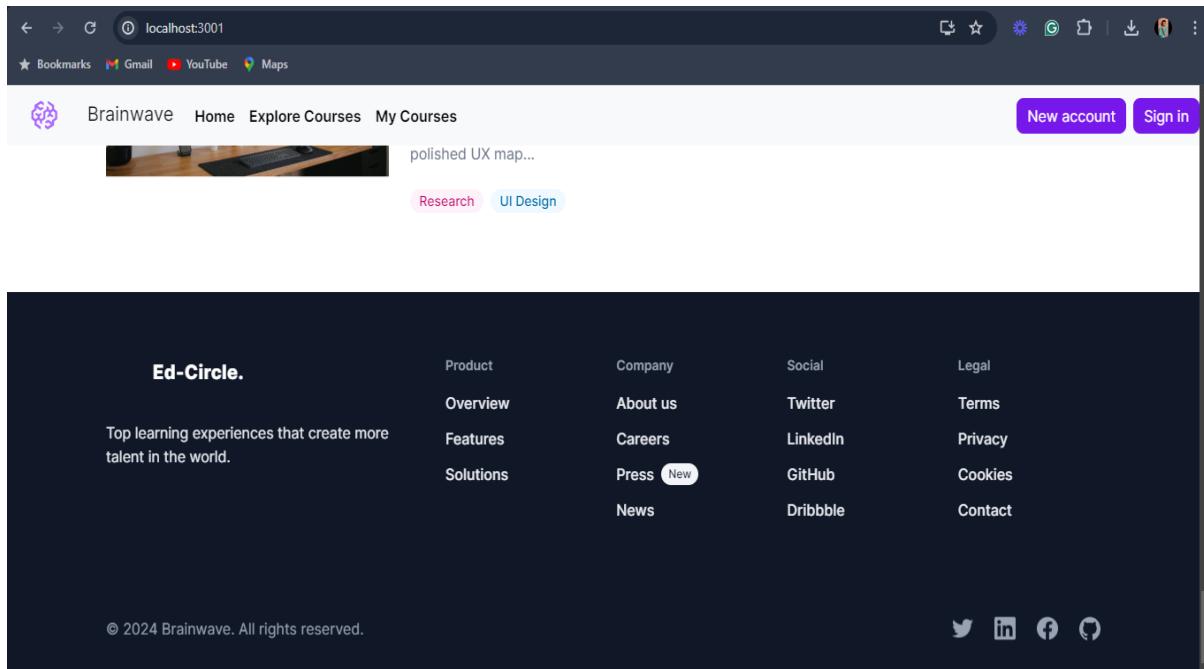


FIG 4.2.42 Footer Section

4.2.43 Website- Student Side Sign Up

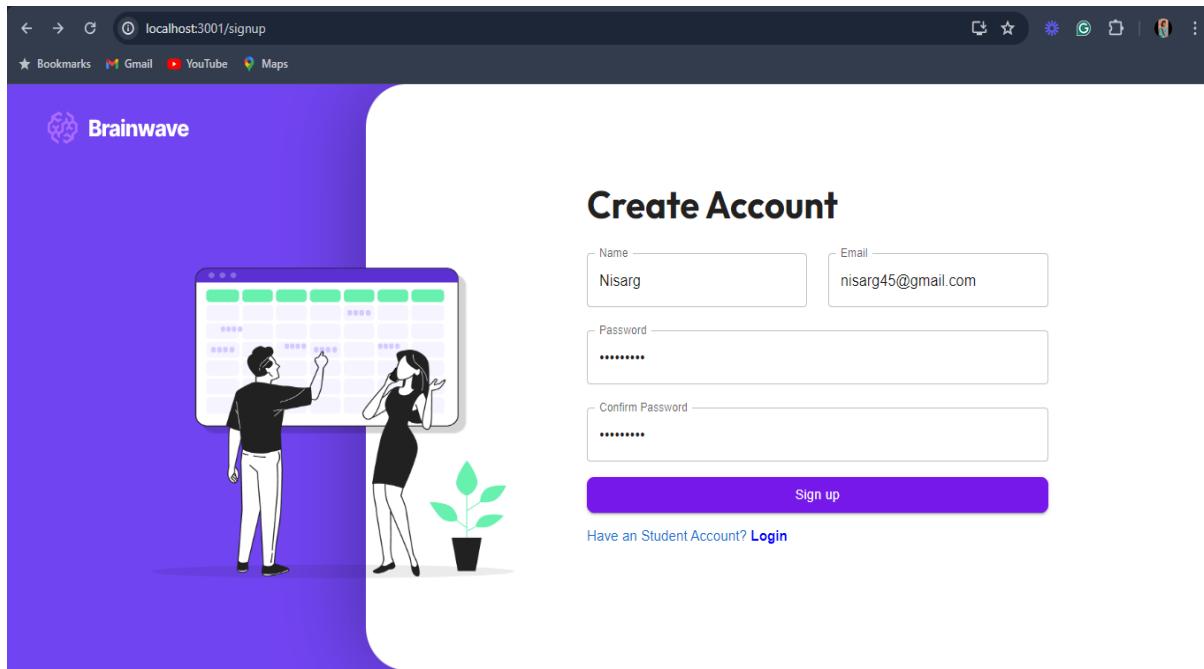


FIG 4.2.43 Website Signup Page

4.2.44 Website- Student Side Login

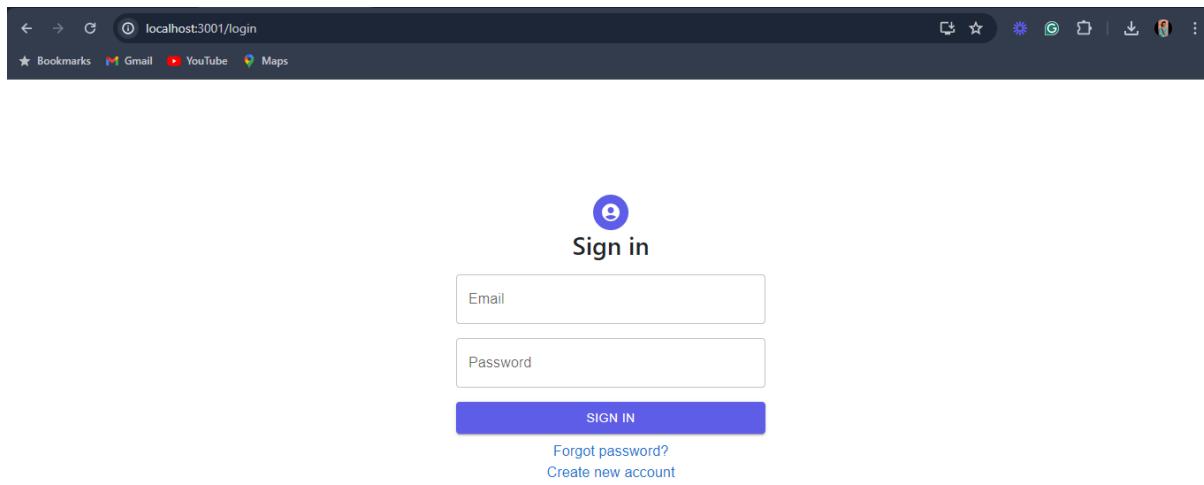


FIG 4.2.44 Website Login Page

4.2.45 Website- Student Side Login Success

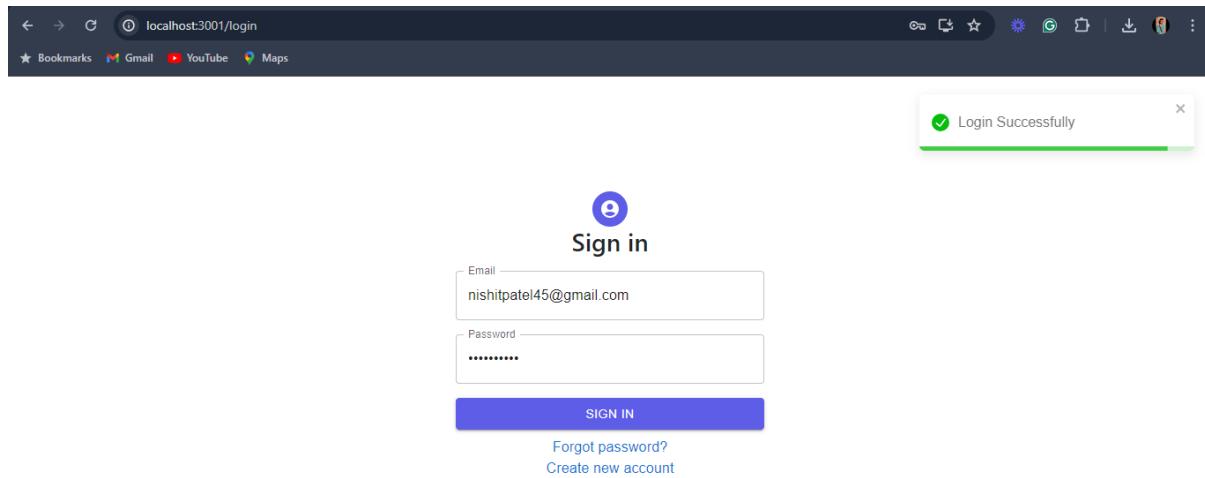


FIG 4.2.45 Website Login Success Page

4.2.46 Website- Student Side Explore Courses Page

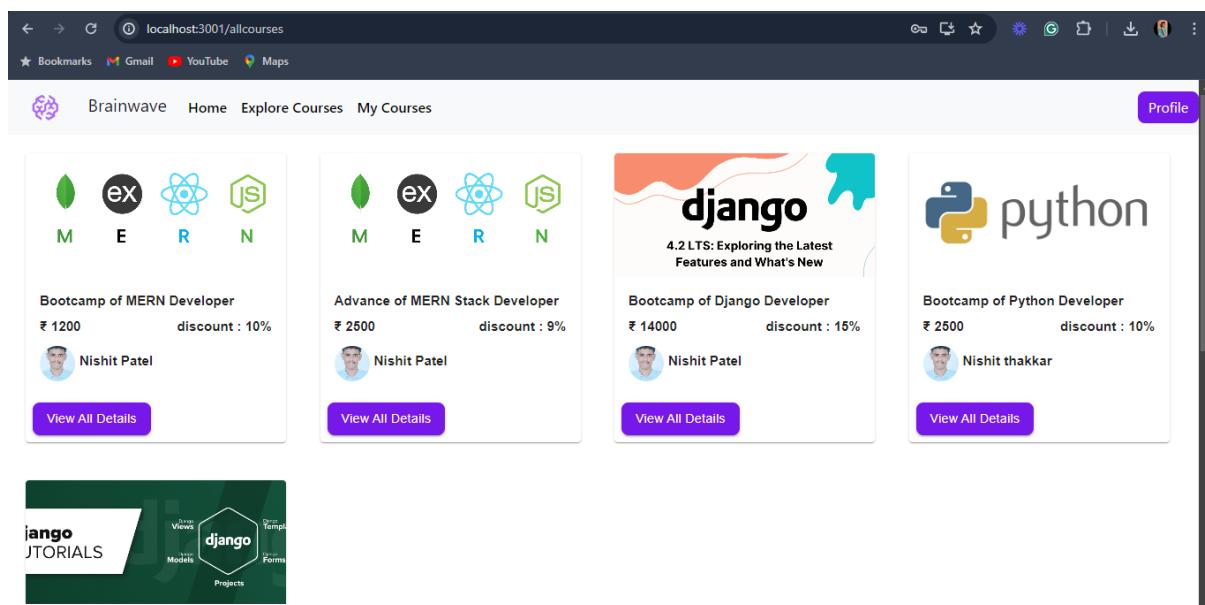


FIG 4.2.46 Website Explore Course Page

4.2.47 Website- Student Side Single Course Page

The screenshot shows a single course page for 'Bootcamp of Python Developer'. At the top, there's a navigation bar with links for 'Bookmarks', 'Gmail', 'YouTube', and 'Maps'. Below the navigation is a header with the 'Brainwave' logo, 'Home', 'Explore Courses', 'My Courses', and a 'Profile' button. A 'Most Subscribed' badge is visible. The main title 'Bootcamp of Python Developer' is displayed in large, bold letters. Below the title, a description reads: 'Join our intensive Python Bootcamp to master essential programming skills. Designed for beginners, this course offers hands-on training, real-world projects, and expert guidance to kickstart your journey in Python programming.' A note indicates it was 'Published By Nishit thakkar'. Below the description are two buttons: 'Wishlist' (grey) and 'Buy Now' (pink). At the bottom, four statistics are listed: '24+' hours of course, '18+' total assignments, '20+' video lessons, and '4,312+' students enrolled.

FIG 4.2.47 Website Single Course Page – 1

4.2.48 Website- Student Side Single Course Page -2

The screenshot shows the same course page as above, but with the 'About Course' tab selected. The 'Details:' section contains the course description: 'Join our intensive Python Bootcamp to master essential programming skills. Designed for beginners, this course offers hands-on training, real-world projects, and expert guidance to kickstart your journey in Python programming.' Below this, a larger text block describes the course content: 'Our Python Bootcamp covers fundamental concepts such as variables, data types, loops, and functions, progressing to advanced topics like object-oriented programming and web development. Through interactive lessons and practical exercises, you'll gain proficiency in Python and build a solid foundation for future programming endeavors.' A sidebar on the right displays the Python logo, the course name 'Bootcamp of Python Developer', the price 'Price :Rs.2500', a discount 'discount : 10%', the level 'Level : Beginner', the instructor 'Nishit thakkar', and a 'Buy Now' button.

FIG 4.2.48 Website Single Course Page - 2

4.2.49 Website- Student Side Single Course Page -3

Module	Sections
Course Overview	1 Sections
Introduction to Python Language	1 Sections
Variables and Datatypes in python language	1 Sections
Loops in python language	1 Sections

FIG 4.2.49 Website Single Course Page - 3

4.2.50 Website- Student Side Single Course Page -4

Nishit thakkar

Nishit thakkar

Nishit has been preaching and practicing the gospel of User Experience (UX) to Fortune 100, 500 and Government organizations for nearly 10 years. That work includes commercial industry leaders like Google Ventures, Kroll/Duff + Phelps, Broadridge, Conde Nast, Johns Hopkins, Mettler-Toledo, PHH Arval, SC Johnson and Wolters Kluwer, as well as government agencies like the National Science Foundation, National Institutes of Health and the Dept. of Homeland Security.

FIG 4.2.50 Website Single Course Page – 4

4.2.51 Website- Student Side My Course Page

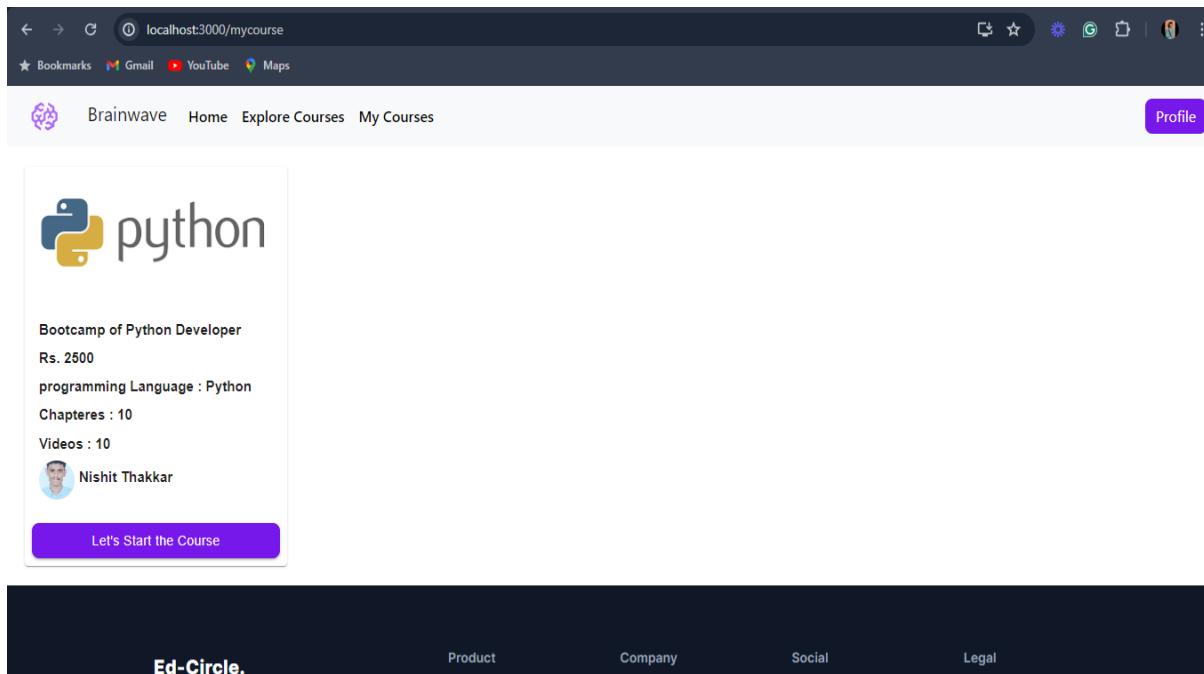


FIG 4.2.51 Website My Course Page

5. AGILE DOCUMENTATION

5.1 Agile Project Charter:

Project Title	Online Learning Platform for Skill Development (OLPSD)
Project Description:	<ul style="list-style-type: none"> • The Online Learning Platform for Skill Development (OLPSD) is a web-based application designed to provide users with access to educational resources and courses aimed at enhancing their skills and knowledge in various domains. • OLPSD aims to offer a diverse range of courses, interactive learning materials, and assessment tools to cater to the learning needs of individuals seeking personal or professional development • The platform will provide features for user authentication, course catalogue management, enrollment, multimedia content delivery, progress tracking, discussion forums, instructor management, certification issuance, user analytics. • The scope of the Online Learning Platform for Skill Development (OLPSD) encompasses the development of a comprehensive web-based application focused on delivering educational resources and courses to users seeking skill enhancement across diverse domains.
Objectives	<ul style="list-style-type: none"> • Develop a secure and user-friendly online learning platform with robust authentication mechanisms. • Curate a comprehensive catalogue of courses with detailed descriptions and instructor information. • Enable seamless course enrollment and management for users, instructors, and administrators. • Provide diverse multimedia content and interactive learning materials to enhance the learning experience.
Business Case	<ul style="list-style-type: none"> • Description of the challenges faced by individuals seeking skill development opportunities, such as limited access to

	<p>quality education, lack of flexibility in learning schedules, and inadequate recognition of learning achievements.</p> <ul style="list-style-type: none"> Identification of the opportunity to address these challenges by developing an online learning platform that provides convenient access to educational resources, interactive courses, and recognition of learning achievements.
Team Details	Nishit Patel - 225160694026
StackHolders	Instructor, Student
Timeline	Start Date: 01/03/2024 End Date: 23/04/2024
Methodology	Agile

Table -3 Agile Project Charter

5.2 Agile Roadmap/ Schedule:

Sprint	Start Date	End Date	Deliverable
Sprint 1	01/03/2024	05/03/2024	<ul style="list-style-type: none"> • Planning and preparation • Setup Project • File Storing and Mechanism
Sprint 2	06/03/2024	18/03/2024	<ul style="list-style-type: none"> • System Design • Define Data schema • Define User Model • Backend development with multiple APIs.
Sprint 3	19/03/2024	24/03/2024	<ul style="list-style-type: none"> • JWT token • accessToken to every APIs • Testing every API before Integrate with frontend
Sprint 4	25/03/2024	05/04/2024	<ul style="list-style-type: none"> • Develop Admin[Instructor] Dashboard • Integrated with backend • Comprehensive Testing
Sprint 5	06/04/2024	19/04/2024	<ul style="list-style-type: none"> • Development of User [Student] side frontend • Integrated with backend APIs • Comprehensive Testing
Sprint 6	20/04/2024	23/04/2024	<ul style="list-style-type: none"> • Final Documentation and User guides • Final Testing and quality assurance

5.3 Agile Project Plan:

Task Description	Start Date	End Date	Duaration
Planning and Requirement Gathering	01-03-2024	03-03-2024	3 Days
Sprint Planning & Requirements Gathering	04-03-2024	06-03-2024	2 Dyas
Set Up Environment	07-03-2024	09-03-2024	2 Days
R&D - Architecture Design & Feasibility Study	10-03-2024	12-03-2024	3 Days
Design Database Schema	13-03-2024	15-03-2024	2 Days
Development of APIs	16-03-2024	19-03-2024	3 Days
Implementation of JWT and accesstoken	20-03-2024	23-03-2024	4 Days
Comprehensive Testing of APIs with postman	24-03-2024	25-04-2024	1 Days
Dashboard of Instructor Design	26-03-2024	30-04-2024	4 Days
Integrate dashboard with its backend	01-04-2024	05-04-2024	5 Days
User Side Designing	06-04-2024	10-04-2024	4 Days
Integrated User side with its backend	11-04-2024	16-04-2024	5 Days
Comprehensive Testing	17-04-2024	19-04-2024	2 Days

5.4 Agile User Story:

1 As a user, I want to access affordable courses so I can learn demanding skill at my ease.

2. As an instructor, I want to launch new courses and generate significant amount of money and provide best skills to students.

3. As an admin, I want to manage all resources related with dashboard and website, so satisfaction of user increases with the effective resource utilization.

6. LEARNING DURING PROJECT WORK

- I involved in building the Online Learning Platform for Skill Development (OLPSD) gain invaluable insights into the complexities of designing and implementing a multifaceted educational platform.
- I learnt the importance of user-centric design, prioritizing accessibility, and responsiveness across various devices. Furthermore, developers acquire proficiency in integrating security measures to safeguard user data and privacy, understanding the significance of encryption, authentication, and protection against common web vulnerabilities.
- Collaboration with stakeholders and adherence to Agile methodologies teach developers the value of iterative development, continuous feedback, and adaptability to evolving requirements.
- Through OLPSD,I enhance my skills in frontend and backend technologies, including HTML, CSS, JavaScript, Node.js, Express.js, MongoDB/MySQL, and React.js, while gaining practical experience in software engineering principles such as modularity, scalability, and maintainability.
- Overall, OLPSD provides me a rich learning experience in educational technology, web development, and cybersecurity, preparing them for future challenges in the dynamic field of software engineering.

7. PROPOSED ENHANCEMENT

7.1 Accessibility in all devices:

- To enhance the accessibility and user experience of the Online Learning Platform for Skill Development (OLPSD), a responsive design approach will be implemented.
- This approach will ensure that the OLPSD website adapts seamlessly to various screen sizes, including mobile phones, tablets, laptops, and desktops. By optimizing the user interface and layout for smaller screens, users will have a consistent and user-friendly experience across all devices.
- Utilize lazy loading techniques to defer the loading of non-essential resources and improve initial page rendering speed.
- Implement caching strategies and compression techniques to optimize data transmission and enhance the overall user experience.

7.2 Security Enhancement:

HTTPS Encryption:

- Ensure that the OLPSD website uses HTTPS encryption to secure data transmission between the user's device and the server.
- Obtain an SSL/TLS certificate from a trusted certificate authority (CA) to enable HTTPS encryption and prevent man-in-the-middle attacks.

Data Protection:

- Apply encryption techniques, such as AES encryption, to sensitive data stored in the database, such as user credentials, personal information, and payment details.
- Use parameterized queries or prepared statements to prevent SQL injection attacks and mitigate the risk of database manipulation.

Session Management:

- Implement secure session management practices, such as session token rotation and session expiration timeouts, to mitigate the risk of session hijacking attacks.

- Store session tokens securely using HTTP-only and secure flags to prevent client-side access and transmission over unencrypted channels

Accessibility to mobile devices will be ensured through responsive design, optimizing layout, navigation, and interactive elements for smaller screens.

Additionally, touch-friendly controls and gestures will enhance user experience. Security enhancements will include secure authentication with multi-factor options, HTTPS encryption for data transmission, encryption of sensitive data, and protection against common web vulnerabilities such as XSS, CSRF, and session hijacking.

These measures aim to provide a seamless, secure, and user-friendly learning experience on mobile devices while safeguarding user data and privacy.

8. CONCLUSION

In conclusion, the Online Learning Platform for Skill Development (OLPSD) offers a comprehensive solution to address the growing demand for remote education and skill enhancement.

By providing a user-friendly interface, interactive learning materials, and robust security features, OLPSD aims to empower individuals to pursue personal and professional development conveniently. With its stringent security measures safeguarding user data, OLPSD ensures accessibility, usability, and trustworthiness.

Through continuous improvement and adaptation to evolving educational needs, OLPSD stands as a reliable platform facilitating lifelong learning and fostering individual growth and success.

9. BILBOGRAPHY

<https://react.dev/learn>

<https://www.w3schools.com/react/default.asp>

<https://www.mongodb.com/docs/>

<https://mongoosejs.com/docs/schematypes.html>

<https://expressjs.com/en/guide/routing.html>

<https://mui.com/material-ui/getting-started/>

<https://www.udemy.com>



GUJARAT TECHNOLOGICAL UNIVERSITY

Ahmedabad



Enrollment no: 225160694026

STUDENT WEEKLY REPORT OF INTERNSHIP

Name of Student: Patel Nishit Pareshkumar

Diary of the Week: 5/02/2024 to 11/02/2024

Department: Information Technology

Name of organization: BrainSquare Technologies Private Limited

Name of the department: WEB

Name of officer incharge of the department: Mihir Thakkar

DESCRIPTION OF THE WORK DONE IN BRIEF

DATE	DAY	WORK
05-02-2024	Monday	<ul style="list-style-type: none"> Revision of HTML,CSS. Made Simple Template with HTML,CSS
06-02-2024	Tuesday	<ul style="list-style-type: none"> Update the template Learn Git and Github command such as commit, merge, pull Host template on gitpages.
07-02-2024	Wednesday	<ul style="list-style-type: none"> Revision of JavaScript Concepts such as Array & Strings and their methods
08-02-2024	Thursday	<ul style="list-style-type: none"> Revision of Function, methods and dom in JavaScript.
09-02-2024	Friday	<ul style="list-style-type: none"> Revision of remaining concepts of DOM such as tagName, getAttribute, setAttribute. Learn Events, eventslistener in JS. Made form with only HTML,CSS.
10-02-2024	Saturday	<ul style="list-style-type: none"> Week Off
11-02-2024	Sunday	<ul style="list-style-type: none"> Week Off

TOTAL HOURS: 40 Hrs

Signature of Student

The above entries are correct and the grading of work done by Trainee is EXCELLENT /
VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Signature of Faculty Mentor

Date:

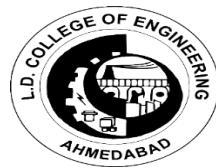
Signature of officer-in-charge of Dept.

Date:



GUJARAT TECHNOLOGICAL UNIVERSITY

Ahmedabad



STUDENT WEEKLY REPORT OF INTERNSHIP

Name of Student: Patel Nishit Pareshkumar

Diary of the Week: 12/02/2024 to 18/02/2024

Department: Information Technology

Name of organization: BrainSquare Technologies Private Limited

Name of the department: WEB

Name of officer incharge of the department: Mihir Thakkar

DESCRIPTION OF THE WORK DONE IN BRIEF

DATE	DAY	WORK
12-02-2024	Monday	<ul style="list-style-type: none"> • Learn form validation Form with HTML,CSS,JS. • Learn form validation only with bootstrap5.
13-02-2024	Tuesday	<ul style="list-style-type: none"> • Revision of Bootstrap and CSS to solve errors.
14-02-2024	Wednesday	<ul style="list-style-type: none"> • Revision of JavaScript Concepts such as Array & Strings and their methods
15-02-2024	Thursday	<ul style="list-style-type: none"> • Learn Classes, Objects, inheritance,function
16-02-2024	Friday	<ul style="list-style-type: none"> • Learn promises, callback function, async, await.
17-02-2024	Saturday	<ul style="list-style-type: none"> • Week Off
18-02-2024	Sunday	<ul style="list-style-type: none"> • Week Off

TOTAL HOURS: 40 Hrs

Signature of Student

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Signature of Faculty Mentor

Date:

Signature of officer-in-charge of Dept.

Date:



GUJARAT TECHNOLOGICAL UNIVERSITY

Ahmedabad



Enrollment no: 225160694026

STUDENT WEEKLY REPORT OF INTERNSHIP

Name of Student: Patel Nishit Pareshkumar

Diary of the Week: 19/02/2024 to 25/02/2024

Department: Information Technology

Name of organization: BrainSquare Technologies Private Limited

Name of the department: WEB

Name of officer incharge of the department: Mihir Thakkar

DESCRIPTION OF THE WORK DONE IN BRIEF

DATE	DAY	WORK
19-02-2024	Monday	<ul style="list-style-type: none"> ON LEAVE
20-02-2024	Tuesday	<ul style="list-style-type: none"> Make Tic-Tac-Toe Game in HTML, CSS, JavaScript.
21-02-2024	Wednesday	<ul style="list-style-type: none"> Make Login Page, Signup Page, Forgot Password Page, Set New Password Page With Validation in JavaScript, HTML,CSS, Bootstrap.
22-02-2024	Thursday	<ul style="list-style-type: none"> Make Landing Page with HTML, CSS, JavaScript. Code push on Github.
23-02-2024	Friday	<ul style="list-style-type: none"> Make Landing Page with HTML, CSS, JavaScript, Bootstrap 5.and code push on Github.
24-02-2024	Saturday	<ul style="list-style-type: none"> Week Off
25-02-2024	Sunday	<ul style="list-style-type: none"> Week Off

TOTAL HOURS: 40 Hrs

Signature of Student

The above entries are correct and the grading of work done by Trainee is EXCELLENT /
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Signature of Faculty Mentor

Date:

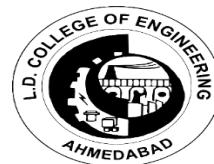
Signature of officer-in-chargeof Dept.

Date:



GUJARAT TECHNOLOGICAL UNIVERSITY

Ahmedabad



Enrollment no: 225160694026

STUDENT WEEKLY REPORT OF INTERNSHIP

Name of Student: Patel Nishit Pareshkumar

Diary of the Week: 26/02/2024 to 03/03/2024

Department: Information Technology

Name of organization: BrainSquare Technologies Private Limited

Name of the department: WEB

Name of officer incharge of the department: Mihir Thakkar

DESCRIPTION OF THE WORK DONE IN BRIEF

DATE	DAY	WORK
26-02-2024	Monday	<ul style="list-style-type: none"> • Install ReactJS, Learn create components, structure of react.js, Install node & watch YouTube tutorial.
27-02-2024	Tuesday	<ul style="list-style-type: none"> • Learn what is ReactJS. Learn react-router-dom and useState() & useNavigate() • Make Login Page, Forgot Password page, Set New Password Page with validation with help of useState() & useNavigate() in React JS
28-02-2024	Wednesday	<ul style="list-style-type: none"> • Make Signup Page with validation with help of useState() & useNavigate() in React JS.
29-02-2024	Thursday	<ul style="list-style-type: none"> • Solve Errors and doubts with Sir.
01-03-2024	Friday	<ul style="list-style-type: none"> • Improve Readability of Code. • Make Weather web application with the help of HTML, CSS, JavaScript, Bootstrap and Rapid API.
02-03-2024	Saturday	<ul style="list-style-type: none"> • Week Off
03-03-2024	Sunday	<ul style="list-style-type: none"> • Week Off

TOTAL HOURS: 40 Hrs

Signature of Student

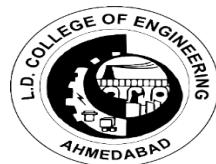
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Signature of Faculty Mentor

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Signature of officer-in-charge of Dept.

Date:

**GUJARAT TECHNOLOGICAL UNIVERSITY****Ahmedabad**

Enrollment no: 225160694026

STUDENT WEEKLY REPORT OF INTERNSHIP

Name of Student: Patel Nishit Pareshkumar

Diary of the Week: 04/03/2024 to 10/03/2024

Department: Information Technology

Name of organization: BrainSquare Technologies Private Limited

Name of the department: WEB

Name of officer incharge of the department: Mihir Thakkar

DESCRIPTION OF THE WORK DONE IN BRIEF

DATE	DAY	WORK
04-03-2024	Monday	<ul style="list-style-type: none"> • Work With Axios
05-03-2024	Tuesday	<ul style="list-style-type: none"> • Make CRUD in React with help of mockAPI • Learn and implement get, put, delete in APIs. • Learn and implement useEffect Hook
06-03-2024	Wednesday	<ul style="list-style-type: none"> • Install mongoose, express • Learn to connect database and express • Learn about mongoose • Created below APIs such as Create, Update, Delete , Get all records, get single records
07-03-2024	Thursday	<ul style="list-style-type: none"> • Added validation such as duplicate entry and filed in APIs.
08-03-2024	Friday	<ul style="list-style-type: none"> • HOLIDAY- MAHASHIVRATRI
09-03-2024	Saturday	<ul style="list-style-type: none"> • Week Off
10-03-2024	Sunday	<ul style="list-style-type: none"> • Week Off

TOTAL HOURS: 40 Hrs**Signature of Student**

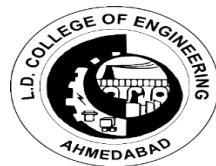
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Signature of Faculty Mentor**Date:****Signature of officer-in-charge of Dept.****Date:**



GUJARAT TECHNOLOGICAL UNIVERSITY

Ahmedabad



Enrollment no: 225160694026

STUDENT WEEKLY REPORT OF INTERNSHIP

Name of Student: Patel Nishit Pareshkumar

Diary of the Week: 11/03/2024 to 17/03/2024

Department: Information Technology

Name of organization: BrainSquare Technologies Private Limited

Name of the department: WEB

Name of officer incharge of the department: Mihir Thakkar

DESCRIPTION OF THE WORK DONE IN BRIEF

DATE	DAY	WORK
11-03-2024	Monday	<ul style="list-style-type: none"> • Learn and implement text animation with typed.js • Update the APIs in MERN such as Create, Update as per mihir sir suggestion.
12-03-2024	Tuesday	<ul style="list-style-type: none"> • Learn and made below Data Dictionaries: • User, Instructor, Course, Category, Subcategory, Programming Language, Language, contentVideo, Chapter, ContentFiles, Userlogin, Review.
13-03-2024	Wednesday	<ul style="list-style-type: none"> • Review all data dictionaries • Made schema of bewlow data dictionaries • Solve errors with senior developer regarding React JS
14-03-2024	Thursday	<ul style="list-style-type: none"> • Compare the Udemy website with my project and according to that made changes in data schema
15-03-2024	Friday	<ul style="list-style-type: none"> • Integrated CRUD API with React JS
16-03-2024	Saturday	<ul style="list-style-type: none"> • Week Off
17-03-2024	Sunday	<ul style="list-style-type: none"> • Week Off

TOTAL HOURS: 40 Hrs

Signature of Student

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Signature of Faculty Mentor

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Date:



GUJARAT TECHNOLOGICAL UNIVERSITY

Ahmedabad



Enrollment no: 225160694026

STUDENT WEEKLY REPORT OF INTERNSHIP

Name of Student: Patel Nishit Pareshkumar

Diary of the Week: 18/03/2024 to 24/03/2024

Department: Information Technology

Name of organization: BrainSquare Technologies Private Limited

Name of the department: WEB

Name of officer incharge of the department: Mihir Thakkar

DESCRIPTION OF THE WORK DONE IN BRIEF

DATE	DAY	WORK
18-03-2024	Monday	<ul style="list-style-type: none"> • Integrated CRUD API of User with React JS with validation • Learn and Implemented material UI
19-03-2024	Tuesday	<ul style="list-style-type: none"> • made changes in Frontend of User Registration such as Gender field change on onChange function in MUI • Made Below CRUD APIs: 1. Country 2. State 3. City 4. Category 5. SubCategory 6. ProgrammingLanguages • Integrated Country API with React JS
20-03-2024	Wednesday	<ul style="list-style-type: none"> • Made below changes in Registration, Country, Country wise State, Country wise City
21-03-2024	Thursday	<ul style="list-style-type: none"> • Made Password Generator in React JS
22-03-2024	Friday	<ul style="list-style-type: none"> • Made Changes in Registration such as State, City, Country with the help of npm country-state-city package • work on Category and Subcategory API for project
23-03-2024	Saturday	<ul style="list-style-type: none"> • Week Off
24-03-2024	Sunday	<ul style="list-style-type: none"> • Week Off

TOTAL HOURS: 40 Hrs

Signature of Student

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Date:



GUJARAT TECHNOLOGICAL UNIVERSITY

Ahmedabad



Enrollment no: 225160694026

STUDENT WEEKLY REPORT OF INTERNSHIP

Name of Student: Patel Nishit Pareshkumar

Diary of the Week: 25/03/2024 to 31/03/2024

Department: Information Technology

Name of organization: BrainSquare Technologies Private Limited

Name of the department: WEB

Name of officer incharge of the department: Mihir Thakkar

DESCRIPTION OF THE WORK DONE IN BRIEF

DATE	DAY	WORK
25-03-2024	Monday	<ul style="list-style-type: none"> • Holiday – Dhuleti
26-03-2024	Tuesday	<ul style="list-style-type: none"> • Made changes in programmingLanguage API such as subcategoryId is added., • Made CRUD of Content API, • Learn callback, useRef Hook in react
27-03-2024	Wednesday	<ul style="list-style-type: none"> • Made CRUD of Below APIs : 1. Chapter 2. ContentVideo 3. Video 4. Review 5. Content
28-03-2024	Thursday	<ul style="list-style-type: none"> • Created CRUD of Course & Content API,Made changes in Chapter API,
29-03-2024	Friday	<ul style="list-style-type: none"> • Made Changes in Course API as per your suggestion: • Made CRUD of Content API with below validation: • Content and Content Video existChapter is from another course
30-03-2024	Saturday	<ul style="list-style-type: none"> • Week Off
31-03-2024	Sunday	<ul style="list-style-type: none"> • Week Off

TOTAL HOURS: 40 Hrs

Signature of Student

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Signature of Faculty Mentor

Date:

Signature of officer-in-charge of Dept.

Date:



GUJARAT TECHNOLOGICAL UNIVERSITY

Ahmedabad



Enrollment no: 225160694026

STUDENT WEEKLY REPORT OF INTERNSHIP

Name of Student: Patel Nishit Pareshkumar

Diary of the Week: 01/04/2024 to 07/03/2024

Department: Information Technology

Name of organization: BrainSquare Technologies Private Limited

Name of the department: WEB

Name of officer incharge of the department: Mihir Thakkar

DESCRIPTION OF THE WORK DONE IN BRIEF

DATE	DAY	WORK
01-04-2024	Monday	<ul style="list-style-type: none"> • Made changes in Content, ContentVideo API. • Made CRUD of Instructor API.
02-04-2024	Tuesday	<ul style="list-style-type: none"> • Made changes in Content, ContentVideo API.
03-04-2024	Wednesday	<ul style="list-style-type: none"> • Made changes in Content, ContentVideo API such as multiple videos and multiple chapter can be added
04-04-2024	Thursday	<ul style="list-style-type: none"> • Created CRUD of Content API
05-04-2024	Friday	<ul style="list-style-type: none"> • Made Changes in Registration page • Made Login Page for project
06-04-2024	Saturday	<ul style="list-style-type: none"> • Week Off
07-04-2024	Sunday	<ul style="list-style-type: none"> • Week Off

TOTAL HOURS: 40 Hrs

Signature of Student

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Signature of Faculty Mentor

Date:

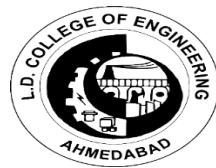
Signature of officer-in-charge of Dept.

Date:



GUJARAT TECHNOLOGICAL UNIVERSITY

Ahmedabad



Enrollment no: 225160694026

STUDENT WEEKLY REPORT OF INTERNSHIP

Name of Student: Patel Nishit Pareshkumar

Diary of the Week: 08/04/2024 to 14/03/2024

Department: Information Technology

Name of organization: BrainSquare Technologies Private Limited

Name of the department: WEB

Name of officer incharge of the department: Mihir Thakkar

DESCRIPTION OF THE WORK DONE IN BRIEF

DATE	DAY	WORK
08-04-2024	Monday	<ul style="list-style-type: none"> • Made forget password, set new password page • OTP Varification through Email
09-04-2024	Tuesday	<ul style="list-style-type: none"> • Made main page of teacher's dashboard
10-04-2024	Wednesday	<ul style="list-style-type: none"> • Learn and implemented JWt, accessToken • Added accessToken in every API which I made
11-04-2024	Thursday	<ul style="list-style-type: none"> • Tested every API with accessToken.
12-04-2024	Friday	<ul style="list-style-type: none"> • Integrated Instructor Signup, Login API with frontend for Instructor
13-04-2024	Saturday	<ul style="list-style-type: none"> • Week Off
14-04-2024	Sunday	<ul style="list-style-type: none"> • Week Off

TOTAL HOURS: 40 Hrs

Signature of Student

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Signature of Faculty Mentor

Date:

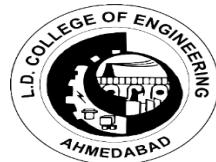
Signature of officer-in-charge of Dept.

Date:



GUJARAT TECHNOLOGICAL UNIVERSITY

Ahmedabad



Enrollment no: 225160694026

STUDENT WEEKLY REPORT OF INTERNSHIP

Name of Student: Patel Nishit Pareshkumar

Diary of the Week: 15/04/2024 to 21/03/2024

Department: Information Technology

Name of organization: BrainSquare Technologies Private Limited

Name of the department: WEB

Name of officer incharge of the department: Mihir Thakkar

DESCRIPTION OF THE WORK DONE IN BRIEF

DATE	DAY	WORK
15-04-2024	Monday	<ul style="list-style-type: none"> • Made changes in Dashboard page such as Total Courses, Total Contentvideos can be seen on dashboard page • Made Course page and get All course made by instructor who logged in
16-04-2024	Tuesday	<ul style="list-style-type: none"> • Made Course Update page and integrate with Admin dashboard.
17-04-2024	Wednesday	<ul style="list-style-type: none"> • Added delete functionality in project. • Solve the errors in Admin Dashboard
18-04-2024	Thursday	<ul style="list-style-type: none"> • Add image in CRUD OF Course in Frontend and store base64 url in database
19-04-2024	Friday	<ul style="list-style-type: none"> • Made management categories page. • Made profile update page and integrated Profile update API with admin dashboard
20-04-2024	Saturday	<ul style="list-style-type: none"> • Week Off
21-04-2024	Sunday	<ul style="list-style-type: none"> • Week Off

TOTAL HOURS: 40 Hrs

Signature of Student

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Signature of Faculty Mentor

Date:

Signature of officer-in-charge of Dept.

Date:



GUJARAT TECHNOLOGICAL UNIVERSITY

Ahmedabad



Enrollment no: 225160694026

STUDENT WEEKLY REPORT OF INTERNSHIP

Name of Student: Patel Nishit Pareshkumar

Diary of the Week: 22/04/2024 to 28/03/2024

Department: Information Technology

Name of organization: BrainSquare Technologies Private Limited

Name of the department: WEB

Name of officer incharge of the department: Mihir Thakkar

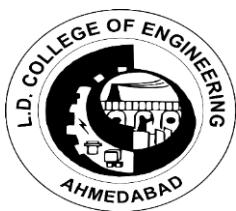
DESCRIPTION OF THE WORK DONE IN BRIEF

DATE	DAY	WORK
22-04-2024	Monday	<ul style="list-style-type: none"> Made CRUD of Content Videos, Chapter, Programming Languages with Dashboard
23-04-2024	Tuesday	<ul style="list-style-type: none"> Working on User side frontend of project made main page of website Integrate APIs with website[Usetside]
24-04-2024	Wednesday	<ul style="list-style-type: none"> .Solve the errors in Admin Dashboard Solve the errors in Main Page of website
25-04-2024	Thursday	<ul style="list-style-type: none"> Integrate APIs with website[Usetside]
26-04-2024	Friday	<ul style="list-style-type: none"> Proper Testing of project
27-04-2024	Saturday	<ul style="list-style-type: none"> Week Off
28-04-2024	Sunday	<ul style="list-style-type: none"> Week Off

TOTAL HOURS: 40 Hrs**Signature of Student**

The above entries are correct and the grading of work done by Trainee is EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Signature of Faculty Mentor**Date:****Signature of officer-in-charge of Dept.****Date:**



**L.D ENGINEERING COLLEGE
AHMEDABAD**

MONTHLY ATTENDANCE SHEET FOR PROJECT

Name: NISHIT PATEL

Enrolment No: 225160694026

Department: IT Department

Project Commencement Date: 05/02/2024

Industry Mentor: Mihir Thakkar

Name & Address of the company: BrainSquare Technologies, B-1206 Shivalik Shilp, Iscon Cross Road.

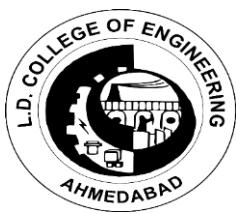
Total Present Days:

MONTH – 1 -FEBRUARY

1	-	16	P
2	-	17	SAT
3	-	18	SUN
4	-	19	LEAVE
5	P	20	P
6	P	21	P
7	P	22	P
8	P	23	P
9	P	24	SAT
10	SAT	25	SUN
11	SUN	26	P
12	P	27	P
13	P	28	P
14	P	29	P
15	P		

Sign of Industry Mentor

Mr. Mihir Thakkar



**L.D ENGINEERING COLLEGE
AHMEDABAD**

MONTHLY ATTENDANCE SHEET FOR PROJECT

Name: NISHIT PATEL

Enrolment No: 225160694026

Department: IT Department

Project Commencement Date: 05/02/2024

Industry Mentor: Mihir Thakkar

Name & Address of the company: BrainSquare Technologies, B-1206 Shivalik Shilp, Iscon Cross Road.

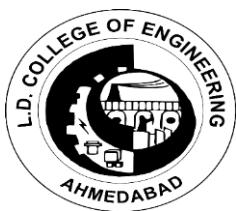
Total Present Days:

MONTH – 2 -MARCH

1	P	16	SAT	31	SUN
2	SAT	17	SUN		
3	SUN	18	P		
4	P	19	P		
5	P	20	P		
6	P	21	P		
7	P	22	P		
8	H	23	SAT		
9	SAT	24	SUN		
10	SUN	25	P		
11	P	26	P		
12	P	27	P		
13	P	28	P		
14	P	29	P		
15	P	30	SAT		

Sign of Industry Mentor

Mr. Mihir Thakkar



**L.D ENGINEERING COLLEGE
AHMEDABAD**

MONTHLY ATTENDANCE SHEET FOR PROJECT

Name: NISHIT PATEL

Enrolment No: 225160694026

Department: IT Department

Project Commencement Date: 05/02/2024

Industry Mentor: Mihir Thakkar

Name & Address of the company: BrainSquare Technologies, B-1206 Shivalik Shilp, Iscon Cross Road.

Total Present Days:

MONTH – 3 -APRIL

1	P	16	P
2	P	17	P
3	P	18	P
4	P	19	P
5	P	20	SAT
6	SAT	21	SUN
7	SUN	22	P
8	P	23	P
9	P	24	P
10	P	25	P
11	P	26	P
12	P	27	SAT
13	SAT	28	SUN
14	SUN		
15	P		

Sign of Industry Mentor

Mr. Mihir Thakkar