

Future Study Hub

PROJECT

Future Study Hub

Submitted By,

Preet Vachhani 202203100110096,

Manthan Sinojiya 202203100110112,

Sujal Hirpara 202203100110117,

Dharam Kathiriya 202203100110162

Guided By,

Pooja Patel

For partial fulfillment of the requirements

For the Degree of Bachelor of Computer Application

B.V. Patel Institute of Computer Science,

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Future Study Hub

DECLARATION

We hereby declare that the project titled “Future Study Hub” is fully implemented by us. It is neither paid nor copied. Even though, later on, in case of any infringement found for this project work, we are solely responsible for the same and understand that as per UGC norms, the University can revoke the degree conferred to us.

Enrolment Number	Name	Signature
202203100110096	Preet Vachhani	
202203100110112	Manthan Sinojiya	
202203100110117	Sujal Hirpara	
202203100110162	Dharam Kathiriya	

Date:

Place:

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Work Sufficiency Certificate

As a guide, I assure you that the project work presented by the team is sufficient and qualitative according to the specified time duration and team size.

Guide Name: - Pooja Patel

Date:

Place:

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1 Project Course Awareness: -

- 1.1 Objective:** - The system aims to help candidates prepare for the IELTS exam by offering classes, study materials, sample questions, and practice tests, enabling them to enhance their English language skills and increase their chances of success in the exam.

2 Project Definition Selection: -

- 2.1 Definition:** - Future Study Hub is an online educational platform that helps individuals in planning their future settlement in any country of their choice. System offers classes and provide information about countries that are good for pursuing higher education. System offers study materials, sample questions, and practice tests to help candidates prepare for each section of the IELTS exam.

2.1.1 Distinct functionality in each system: -

- 1. Student Visa Guidance:** - IDP offers visa assistance to students who are planning to study abroad. This includes help with applying for visas, understanding visa requirements, and navigating the visa process.
- 2. Personalized counseling:** - LEAP SCHOLAR offers personalized counseling to students who are interested in studying abroad. The counseling service includes help with choosing a university, applying for scholarships, and preparing for the study abroad experience.
- 3. Manage Scholarship:** -IDP offers a scholarship search engine that helps students find scholarships that they are eligible for.

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3 Proposed System Requirement Analysis: -

3.1 Tools and Technology: -

3.1.1 Tools: -

1. XAMPP
2. VS CODE

3.1.2 Technology: -

1. PHP
2. HTML
3. CSS
4. BootStrap
5. JavaScript
6. MySql

3.2 Definition: - Future Study Hub is an online educational platform that helps individuals in planning their future settlement in any country of their choice. System offers classes and provide information about countries that are good for pursuing higher education. system offers study materials, sample questions, and practice tests to help candidates prepare for each section of the IELTS exam.

3.3 Purpose: - The purpose of our system, Future Study Hub, is to provide comprehensive online resources and tools for individuals preparing for the IELTS exam. We aim to equip users with study materials, practice tests, interactive learning modules, and personalized feedback to enhance their language skills and excel in the IELTS exam. Our platform strives to empower users with the knowledge and confidence they need to achieve their desired scores and pursue their academic and professional aspirations.

3.4 Scope: -

➤ System Functionality Scope: -

1. **Expert Support:** - Access to qualified IELTS trainers for guidance, doubt clarification, and study plan development. Q&A sessions, discussion forums, and community interactions for peer learning.
2. **Real Exam Simulations:** - Simulated exam experiences with timed tests, official instructions, and strict adherence to exam formats.

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3. Personal Achievement Dashboard:- Each user has a personalized dashboard highlighting their achievements, progress, and earned badges.

➤ **System scope: -**

- In this semester System scope is limited to Gujarat state of India.

3.5 User's Functional requirements: -

1. Admin: -

- 1. User Registration and Profiles: -** Admin can create accounts, providing necessary details such as name, contact information, and preferred study goals.
- 2. Manage Users Profile: -** Administrators to oversee and modify user accounts. Administrators can access and update user information, including personal details, preferences, and access permissions, ensuring efficient management and customization of user profiles to meet individual needs.
- 3. Manage Exam Schedule: -** Users can access full-length, timed practice exams that closely mimic the format and conditions of the actual IELTS exam. This feature allows candidates to experience the exam environment and manage their time effectively.
- 4. View Feedback: -** Users can submit their writing and speaking tasks for evaluation by IELTS instructors or tutors. They will receive detailed feedback, suggestions for improvement, and tips for achieving higher scores.

2. Teacher: -

- 1. User Registration and Profiles: -**Admin can create accounts, providing necessary details such as name, contact information, and preferred study goals.

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2. **View Student Profile:** - Teachers can now access and review detailed profiles of their students within the platform. This functionality enables teachers to gain insights into students' progress, performance, and individual learning needs, facilitating personalized guidance and support.
3. **Manage Lesson:** - Teachers have the capability to organize and manage their lessons effectively through this feature. They can create, edit, and schedule lessons, as well as track attendance, assignments, and progress.
4. **Provide Materials:** - Teachers can upload and share educational materials, resources, content relevant to their lessons. This functionality empowers teachers to enrich the learning experience by offering additional study materials, reference documents, multimedia resources, and interactive exercises to support students' comprehension and skill development.
5. **Manage Learning Modules:** - Interactive modules will be available in all four sections of the IELTS exam: Listening, Reading, Writing, and Speaking.
6. **Monitor Student Progress:** - The system will enable users to track their progress by providing performance analytics, scores, and recommendations for further improvement.
7. **Provide Feedback:** - Users can submit their writing and speaking tasks for evaluation by IELTS instructors or tutors. They will receive detailed feedback, suggestions for improvement, and tips for achieving higher scores.

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3. Student: -

1. **User Registration and Profiles:** -Student can create accounts, providing necessary details such as name, contact information, and preferred study goals.
2. **Access Study Materials:** - Students now have the ability to access a comprehensive repository of study materials directly from the platform. This functionality grants students access to a diverse range of educational resources, including notes, e-books, videos, and practice exercises, tailored to support their learning objectives and exam preparation. By providing convenient access to study materials, this feature enhances students' academic performance and facilitates self-paced learning.
3. **Access Learning Modules:** - Interactive modules will be available in all four sections of the IELTS exam: Listening, Reading, Writing, and Speaking.
4. **Give IELTS Practice Test:** - The system will offer online mock exams that closely resemble the actual IELTS exam format.
5. **View Own Progress:** - The system will enable users to track their progress by providing performance analytics, scores, and recommendations for further improvement.
6. **Provide Feedback:** - Users can submit their writing and speaking tasks for evaluation by IELTS instructors or tutors. They will receive detailed feedback, suggestions for improvement, and tips for achieving higher scores.

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3.6 Non-functional requirements: -

1. **Performance:** - The website should load quickly and respond to user interactions promptly. The response time for accessing study materials, practice tests, and feedback should be minimized.
2. **Usability:** - The user interface should be intuitive, user-friendly, and accessible to all users, including those with disabilities. The website should be responsive and compatible with various devices, such as desktops, tablets, and smartphones.
3. **Security:** - User data, including personal information and progress tracking, should be securely stored and protected from unauthorized access.
4. **Compatibility:** -The website should be compatible with various web browsers (e.g., Chrome, Firefox, Safari, Edge) to ensure a consistent experience for all users.

3.7 Users of the system with their characteristics: -

1. **Admin:** - These individuals would manage the platform, handle technical issues, and provide customer support. Their number might be relatively small compared to the user base.
2. **Student:** - Students are seeking IELTS exam preparation and higher education planning.
3. **Teacher:** - The teacher is responsible for creating and delivering courses. They can also grade assignments, answer student questions, and provide feedback.

3.7.1 Number of users: -

1. Admin
2. Teacher
3. Student

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4 Conceptual Diagram Design: -

4.1 Use case Diagram: -

4.1.1 List of Users: -

1. Admin
2. Teacher
3. Student

4.1.2 Draw Use case Diagram: -

➤ Admin: -

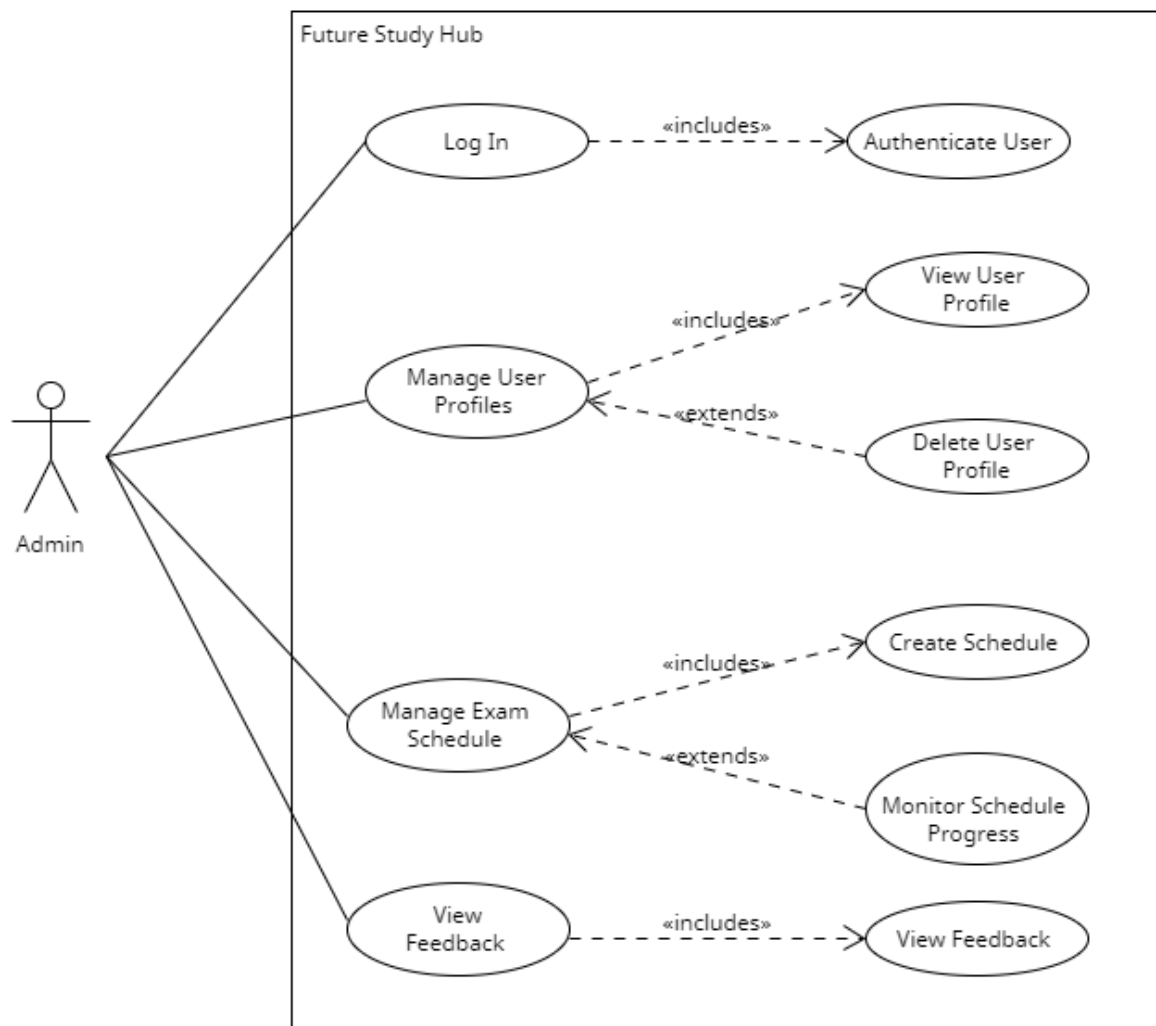


Figure 1: UCD of Admin

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➤ Teacher: -

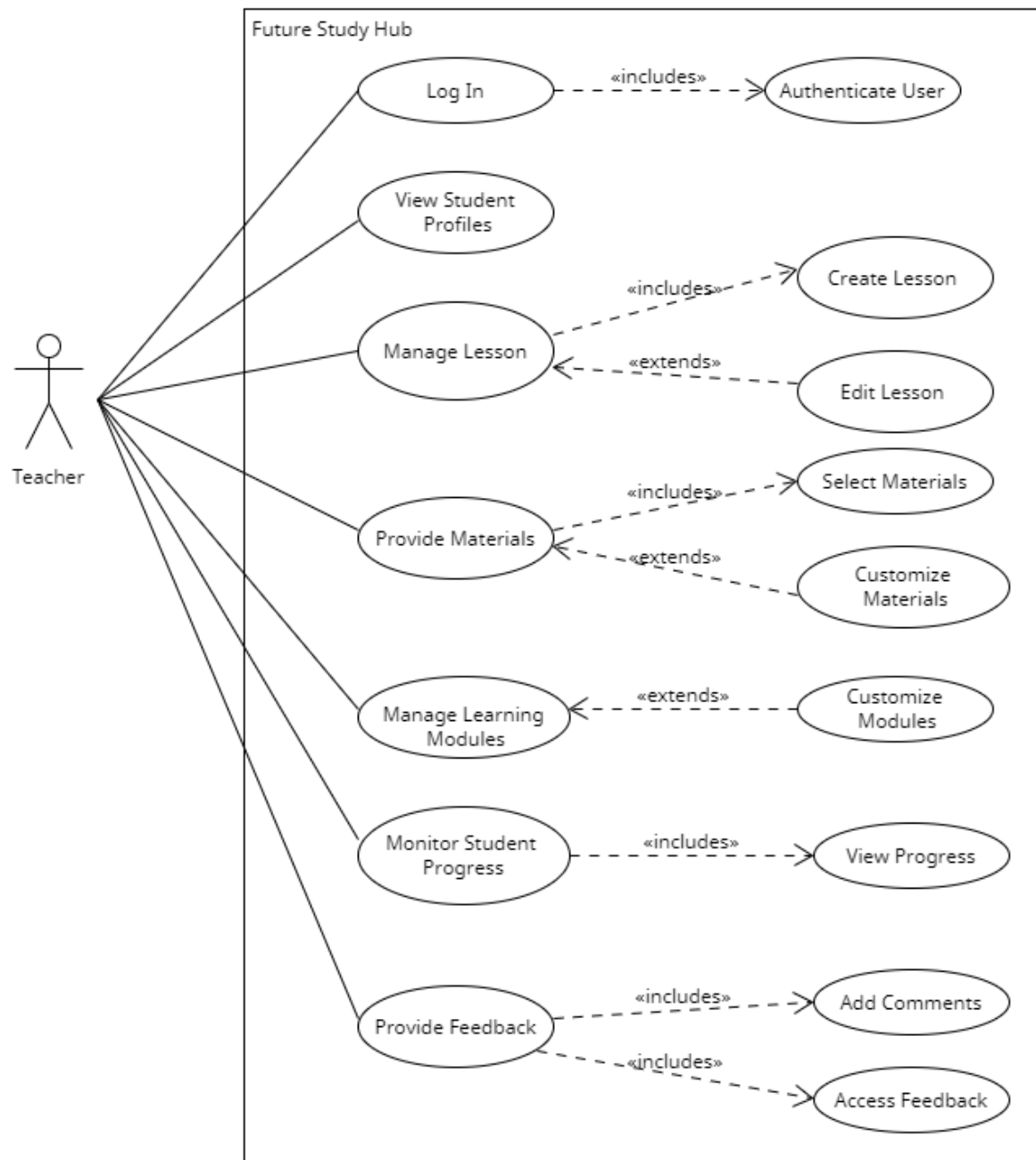


Figure 2: UCD of Teacher

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➤ Student: -

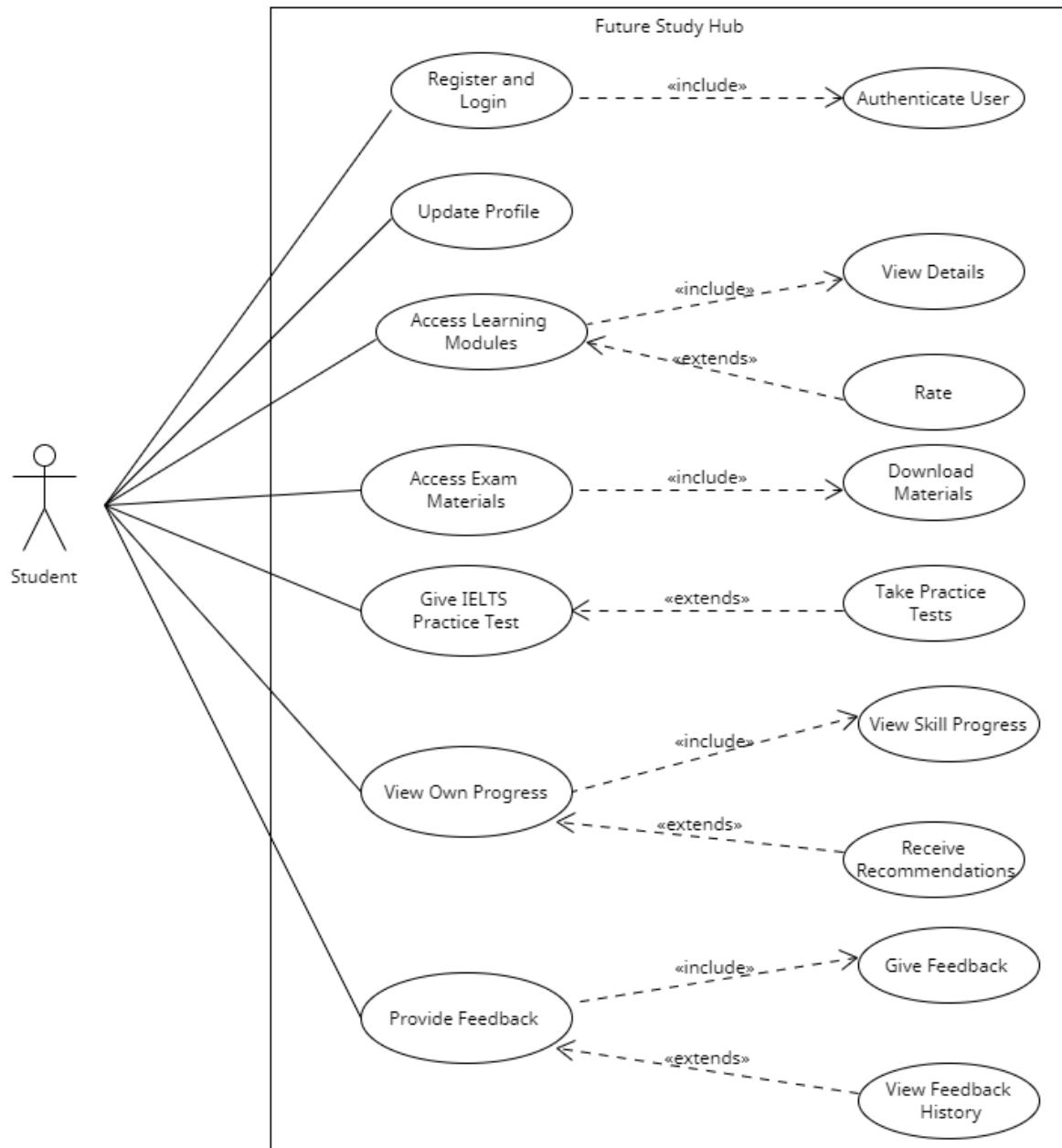


Figure 3: UCD of Student

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4.2 Activity Diagram: -

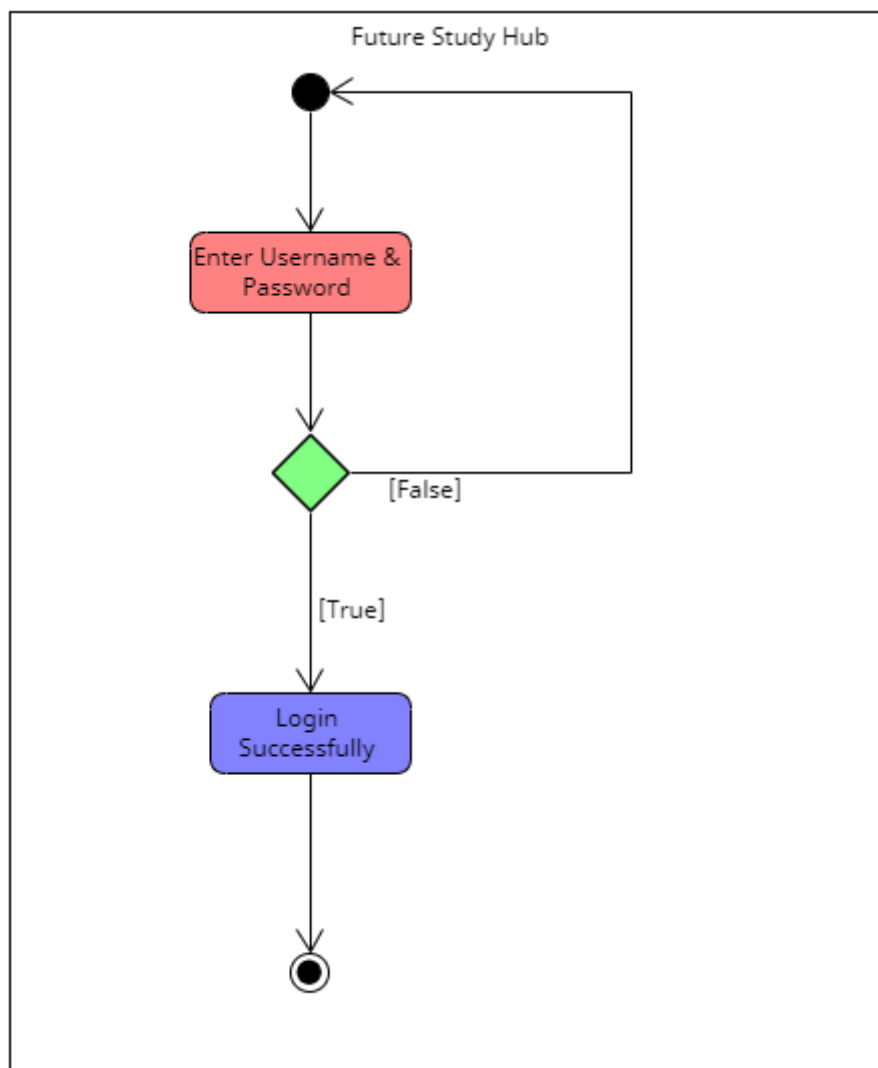


Figure 4: AD of Login

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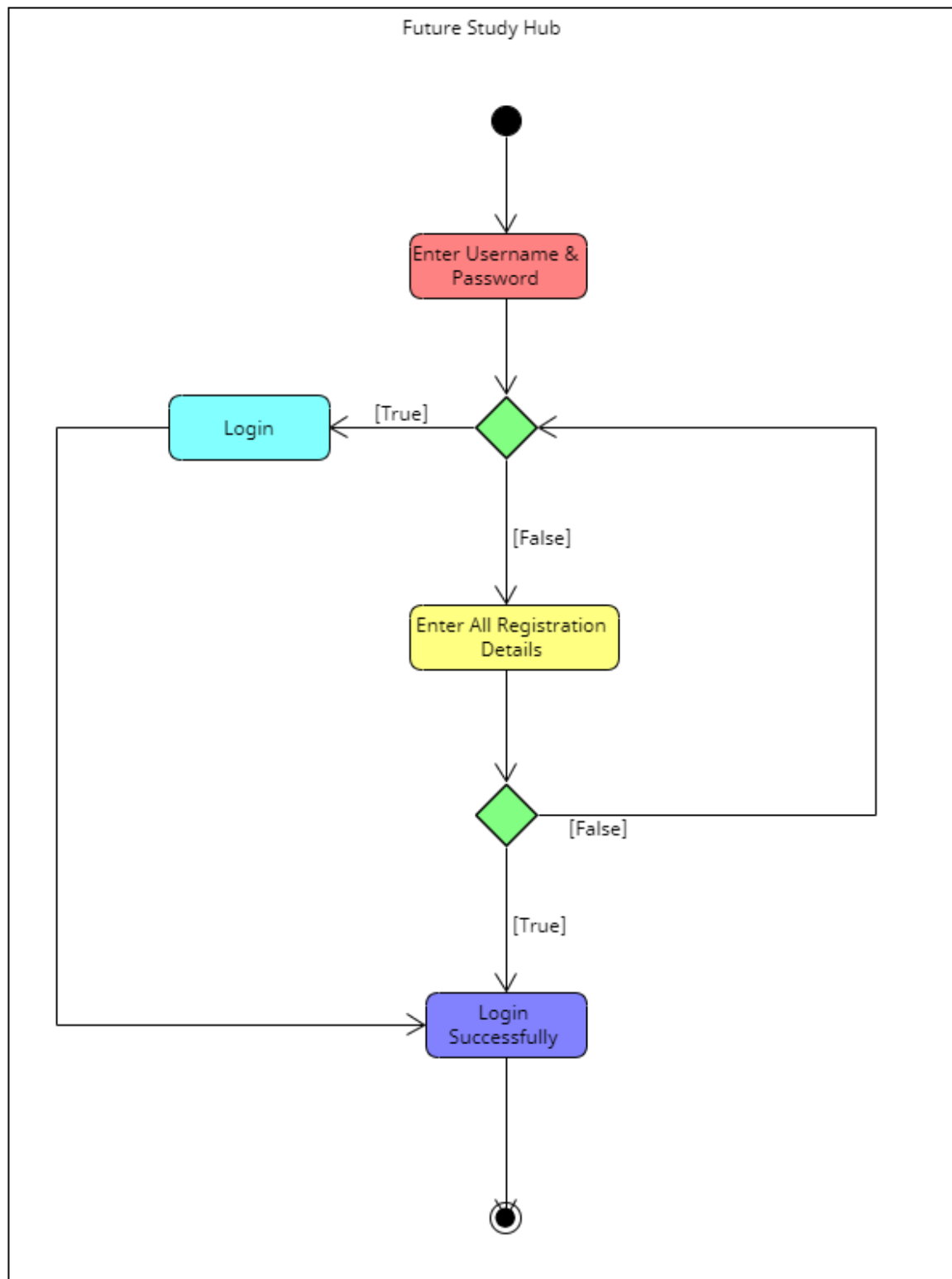


Figure 4: AD Registration

5 System Model: -

5.1 Agile Model Implementation for Our Project: -

1. Model Overview: -The Agile model will be implemented in your project to facilitate the iterative development of the educational platform, Future Study Hub. This approach involves breaking down the project into smaller, manageable increments, or sprints, allowing for continuous improvement and adaptation to changing requirements.

2. Reason: -

- 1. Course Management:** - In the initial sprint, the focus will be on setting up the course management system, including database setup, course creation, and basic admin functionalities.
- 2. User Registration:** - Sprint 2 will prioritize the implementation of user registration and profile management features for admins, teachers, and students.
- 3. Learning Modules:** -This sprint will involve developing interactive learning modules for each section of the IELTS exam, including reading, writing, speaking, and listening.
- 4. Progress Tracking:** - Sprint 4 will focus on implementing progress tracking functionalities, allowing students to monitor their performance and track their progress over time.
- 5. Feedback System:** -In this sprint, a feedback system will be developed to allow students to submit assignments, receive feedback from teachers, and provide feedback on the course content and teaching methods.

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- 6. Payment Integration:** - The final sprint will involve integrating payment functionalities for course enrollment and other paid features, ensuring a seamless payment experience for users.

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6 Database Design: -

6.1 Table with description includes attributes, data type, size, and constraints: -

Admin Table

Field Name	Data Type	Description	Constraints	Example Values
admin_id (PK)	VARCHAR	Unique identifier for each admin	Not Null, Primary Key	A001
admin_name	Text (or VARCHAR)	Name of the admin	Not Null	"Admin 1"
Email	Text (or VARCHAR)	Email address of the admin		admin@example.com
Password	Text (or VARCHAR)	Password of the admin		

Course Table

Field Name	Data Type	Description	Constraints	Example Values
Course_id (PK)	VARCHAR	Unique identifier for each Course	Not Null, Primary Key	Cr01
Course_name	Text (or VARCHAR)	Name of the Course	Not Null	IELTS
Description	Text	Description of the Course		Presentation slides for Chapter 1

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Student Table

Field Name	Data Type	Description	Constraints	Example Values
student_id (PK)	VARCHAR	Unique identifier for each student	Not Null, Primary Key	S001
student_name	Text (or VARCHAR)	Name of the student	Not Null	"Preet vachhani"
Email	Text (or VARCHAR)	Email address of the student		preet12@gmail.com
Contact No	INT	Contact no of Students		9087654321
Password	Text (or VARCHAR)	Password of the Student		Student@123
enrollment_date	Date	Date of enrolment		1/15/2023
Course_id (FK)	VARCHAR	Foreign key referencing the Course table	Foreign Key	Cr01

Teacher Table

Field Name	Data Type	Description	Constraints	Example Values
teacher_id (PK)	VARCHAR	Unique identifier for each Teacher	Not Null, Primary Key	T001
teacher_name	Text (or VARCHAR)	Name of the Teacher	Not Null	"Shujal hirpara"
Email	Text (or VARCHAR)	Email address of the Teacher		shujal12@gmail.com
Contact No	INT	Contact no of Students		9807654321
Password	Text (or VARCHAR)	Password of the Student		Student@123
hire_date	Date	Date of teacher's hiring		1/15/2023
Course_id (FK)	VARCHAR	Foreign key referencing the Course table	Foreign Key	Cr01

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Sub-Course Table

Field Name	Data Type	Description	Constraints	Example Values
Sub_course_id (PK)	VARCHAR	Unique identifier for each Course	Not Null, Primary Key	Cr01
Sub_course_name	Text (or VARCHAR)	Name of the Course	Not Null	Reaading
Module	Text	Module of course		General
Description	Text	Description of the Course		Presentation slides for Chapter 1
course_id (FK)	VARCHAR	Foreign key referencing the Course table	Foreign Key	Cr01

Exam Table

Field Name	Data Type	Description	Constraints	Example Values
exam_id (PK)	VARCHAR	Unique identifier for each exam	Not Null, Primary Key	E001
exam_name	Text (or VARCHAR)	Name of the exam	Not Null	"Final Exam"
exam_date	Date	Date of the exam		44941
course_id (FK)	VARCHAR	Foreign key referencing the Course table	Foreign Key	Cr01
Total_marks	INT	Total marks of exam		50
Passing_marks	INT	Passing marks of exam		25
Description	Text	Description of the Exam		Presentation slides for Chapter 1
Subcourse_id (FK)	VARCHAR	Foreign key referencing the Sub-Course table	Foreign Key	Sc01

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Material Table

Field Name	Data Type	Description	Constraints	Example Values
Material_id (PK)	VARCHAR	Unique identifier for each exam	Not Null, Primary Key	M001
Material_name	Text (or VARCHAR)	Name of the exam	Not Null	Chapter 1 Slides, "Lab Manual"
Description	Text	Description of the material		Presentation slides for Chapter 1
course_id (FK)	VARCHAR	Foreign key referencing the Course table	Foreign Key	Cr01
Subcourse_id (FK)	VARCHAR	Foreign key referencing the Sub-Course table	Foreign Key	Sc01

Progress Tracking Table

Field Name	Data Type	Description	Constraints	Example Values
tracking_id (PK)	VARCHAR	Unique identifier for each tracking	Not Null, Primary Key	PT001
student_id (FK)	VARCHAR	Foreign key referencing the Student table	Foreign Key	S001
course_id (FK)	VARCHAR	Foreign key referencing the Course table	Foreign Key	Cr01
progress_percentage	Numeric (Decimal)	Student's progress in the course	Not Null	75.5
Subcourse_id (FK)	VARCHAR	Foreign key referencing the Sub-Course table	Foreign Key	Sc01

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Feedback Table

Field Name	Data Type	Description	Constraints	Example Values
feedback_id (PK)	VARCHAR	Unique identifier for each feedback	Not Null, Primary Key	F001
student_id (FK)	VARCHAR	Foreign key referencing the Student table	Foreign Key	S001
teacher_id (FK)	VARCHAR	Foreign key referencing the Course table	Foreign Key	T001
course_id (FK)	VARCHAR	Foreign key referencing the Course table	Foreign Key	Cr01
feedback_text	Text	Textual feedback provided by the student		Great teacher!
feedback_date	Date	Date when the feedback was submitted		21/03/2022

Payment Table

Field Name	Data Type	Description	Constraints	Example Values
payment_id (PK)	Int	Unique identifier for each payment	Not Null, Primary Key	101
student_id (FK)	VARCHAR	Foreign key referencing the Student table	Foreign Key	S001
Amount	DECIMAL	Amount of Payment		10,000
course_id (FK)	VARCHAR	Foreign key referencing the Course table	Foreign Key	Cr01
Payment_date	DATETIME	Date and Time of the Payment		24/03/2023 11:50:26 Am
Method	VARCHAR	Payment methods (e.g., Credit card, PayPal)		GooglePay(UPI)
Status	VARCHAR	Status of the payment (e.g., Paid, Pending)		Paid

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6.2 A normal form of a database schema: -

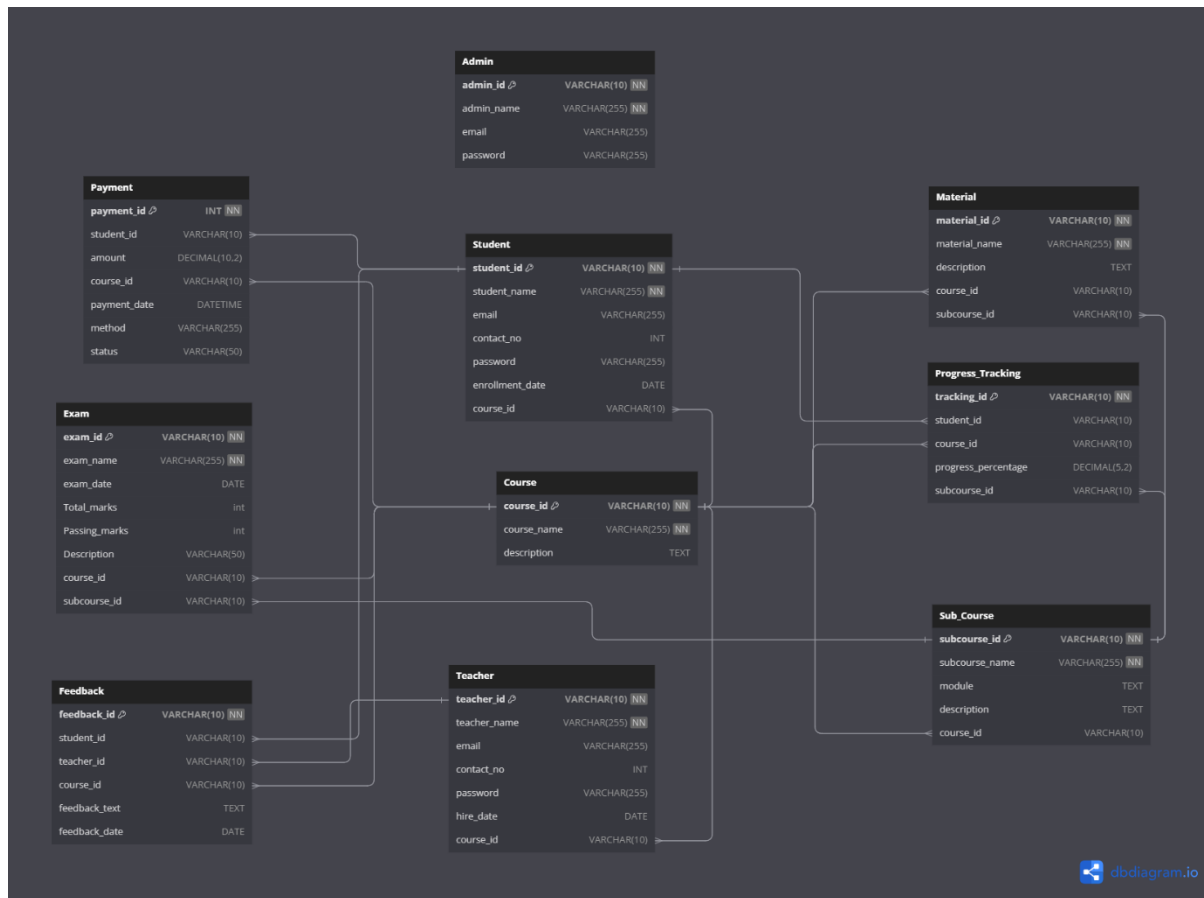


Figure 6: DATABASE Schema

6.3 Number of tables: -

- Total 10 Tables

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7 User Interface Design

7.1 Screenshot of Homepage: -

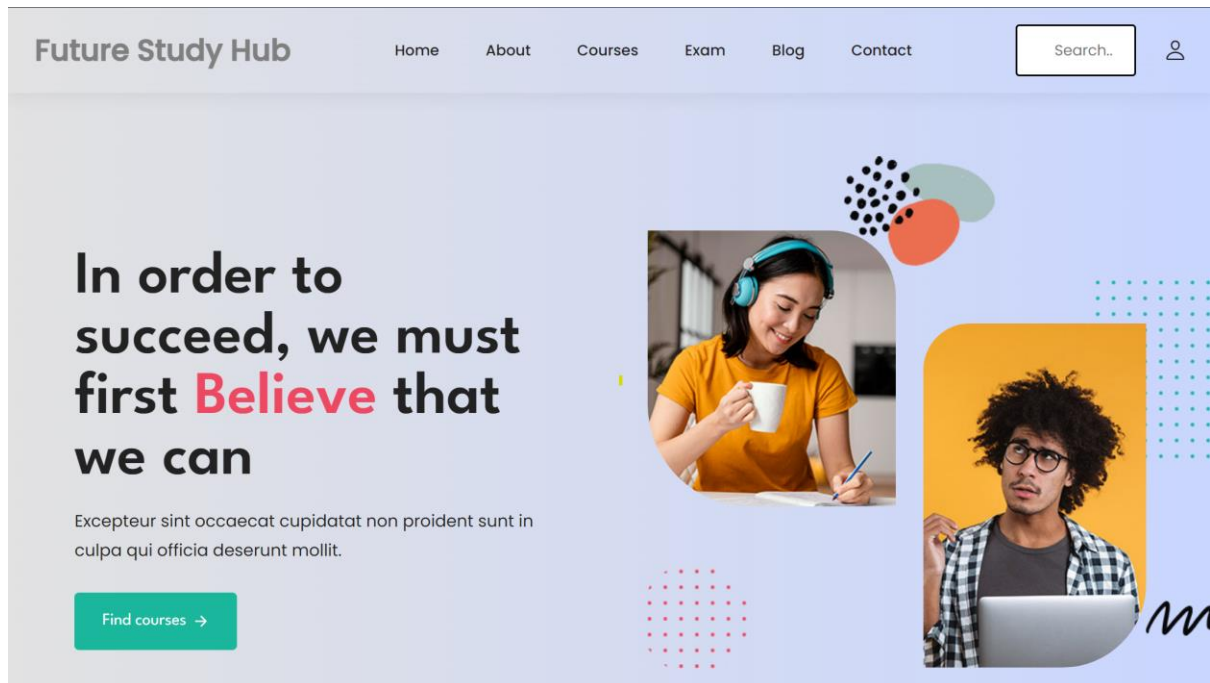


Figure 7: Home Page

7.1.1 Used navigation control with justification: -The navigation bar at the top of the page helps users interact with the website more easily. It has links to important sections like "Home," "Meeting," "Apply Now," "Pages," "Courses," and "Contact us." This makes it quick and simple for users to move around the website and find information they need. The navigation bar makes it easier for users to use the website and find what they're looking for.

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7.2 Screenshot of UI: -

1. Sign Up Page: -

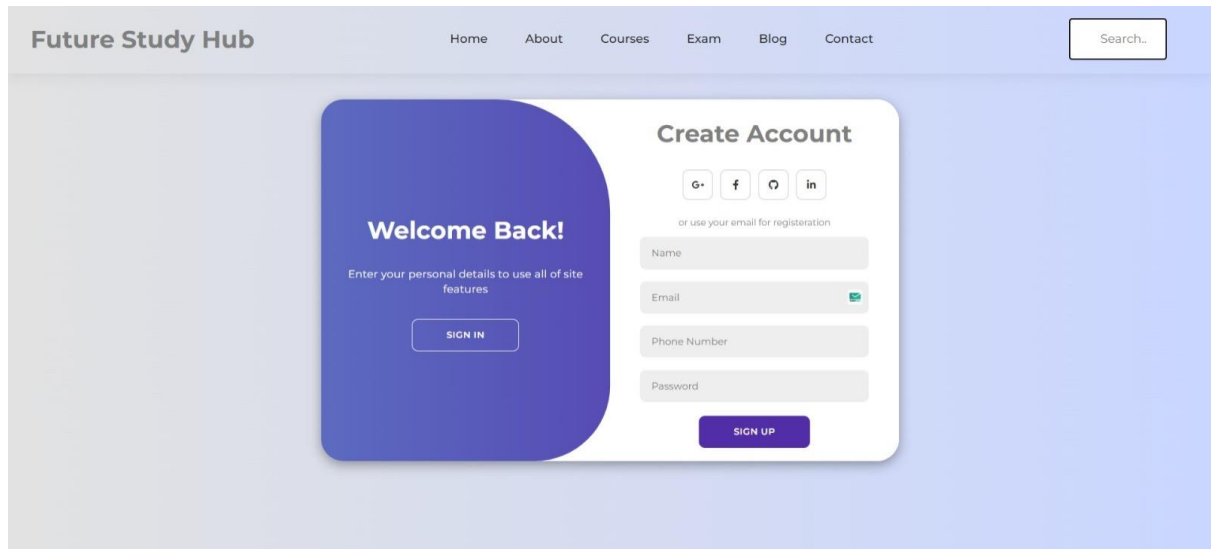


Figure 8: Sign Up Page

- **Purpose of the UI:** -The purpose of the signup page for Future Study Hub is to collect essential user information, such as name, email, password, phone number, to create a new user account and enable access to the system services.
- **Used control with justification:** -
 - **Text Input Fields (User Name, Email, Password, Phone_No):** - These blank spaces are where you type in important information like your name, email, and password. They are important because we need this data to set up your account.
 - **"Sign Up" Button:** When you click on this button, it's like saying, "I'm ready!" It's the start button for signing up.
 - **Login Here Link:** If you already have an account, you can click on this to go to the login page. It's a way for people who are already members to get back in.

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2. Login Page: -

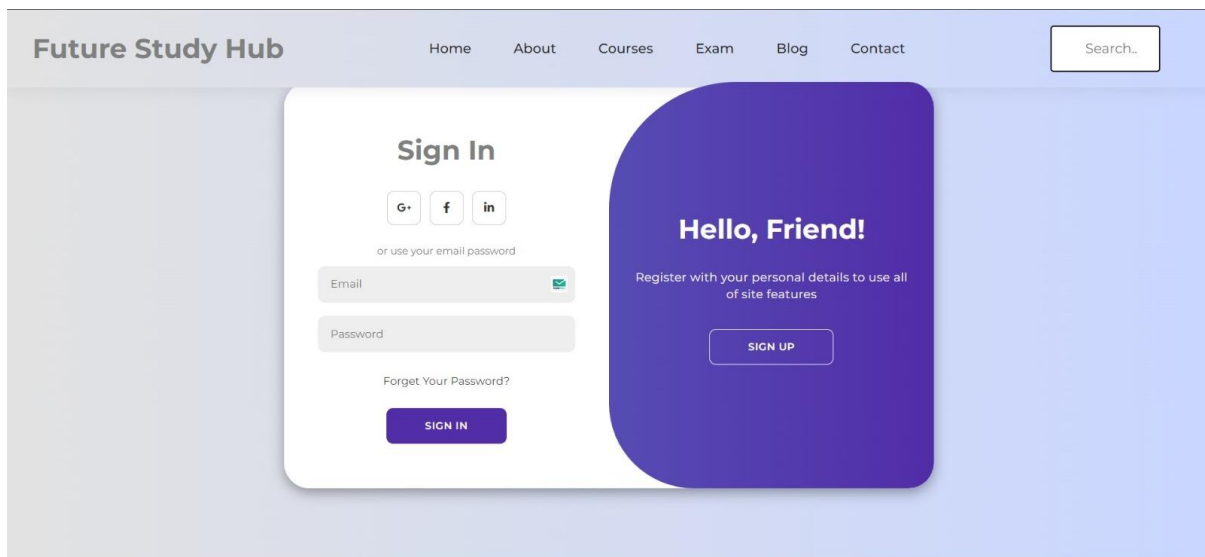


Figure 9: Login Page

- **Purpose of the UI: -** The purpose of the login page for Future Study Hub is to allow users to access their accounts by entering their email address and password, while the "Forgot Password" feature is designed to help users reset their forgotten passwords and regain access to their accounts.
- **Used control with justification: -**
 - **Email and Password Fields: -** These are where users type in their email and password. They're important because we need this information to let users log in.
 - **Login Button: -** When users click this button, it's like saying, "I'm ready to log in." It's important because it starts the login process once they've entered their email and password.

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3. Course: -

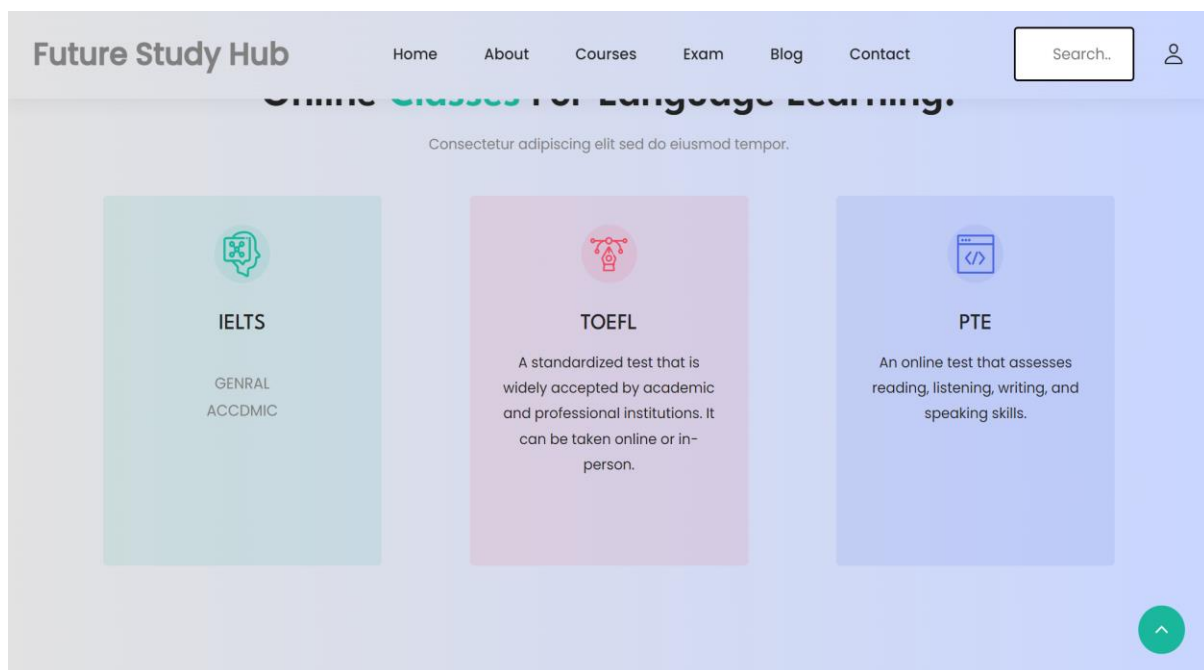
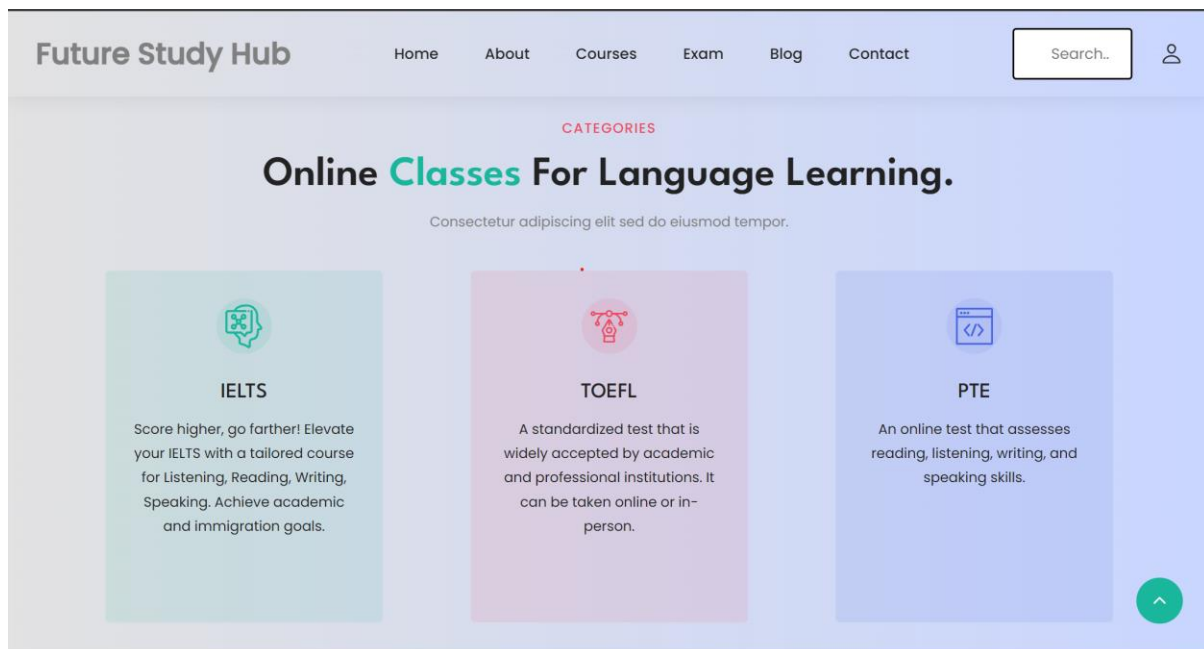


Figure 10: Courses