### **PROJECT**

### Future Study Hub

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Pooja Patel

For partial fulfillment of the requirements

For the Degree of Bachelor of Computer Application

B.V. Patel Institute of Computer Science,

Uka Tarsadia University.

April, 2024.

#### **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.

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# **Work Sufficiency Certificate**

As a guide, I assure you that the project work presented by the team	n is sufficient and			
qualitative according to the specified time duration and team size.				
Guide Name: - Pooja Patel				
Date:	Signature:			

1	1 Project Course Awareness:	1
	1.1 Objective:	1
2	2 Project Definition Selection:	1
	2.1 Definition:	
	2.1.1 Distinct functionality in each system:	1
3	3 Proposed System Requirement Analysis:	2
	3.1 Tools and Technology:	
	3.1.1 Tools:	
	3.1.2 Technology:	2
	3.2 Definition:	2
	3.3 Purpose:	2
	3.4 Scope:	2
	3.5 User's Functional requirements:	3
	3.6 Non-functional requirements:	6
	3.7 Users of the system with their characteristics:	6
	3.7.1 Number of users:	6
4	4 Conceptual Diagram Design:	7
	4.1 Use case Diagram:	
	4.1.1 List of Users:	
	4.1.2 Draw Use case Diagram:	7
	4.2 Activity Diagram:	10
5	5 System Model:	13
	5.1 Prototyping Model Implementation for Our Project:	13
6	6 Database Design:	15
	6.1 Table with description includes attributes, data type, size, and	
	constraints:	15
	6.2 Number of tables:	20
7	7 User Interface Design	21
	7.1 Screenshot of Homepage:	
	7.1.1 Used navigation control with justification:	21
	7.2 Screenshot of UI: -	22
8	8 Dashboard:	26
9	9 Test Case:	28

#### 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.

#### 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.
- **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: Admin can see all student's feedbacks.

#### 2. Teacher: -

- **1. User Registration and Profiles: -**Admin can create accounts, providing necessary details such as name, contact information, and preferred study goals.
- **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. Monitor Student Progress: -** The system will enable users to track their progress by providing performance analytics, scores, and recommendations for further improvement.
- **6.** View Feedback: Teacher can see all student's feedbacks.

#### 3. Student: -

- 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.
- 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.

#### 3.6 Non-functional requirements: -

**1. Security: -** User data, including personal information and progress tracking, should be securely stored and protected from unauthorized access.

#### 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

### 4 Conceptual Diagram Design: -

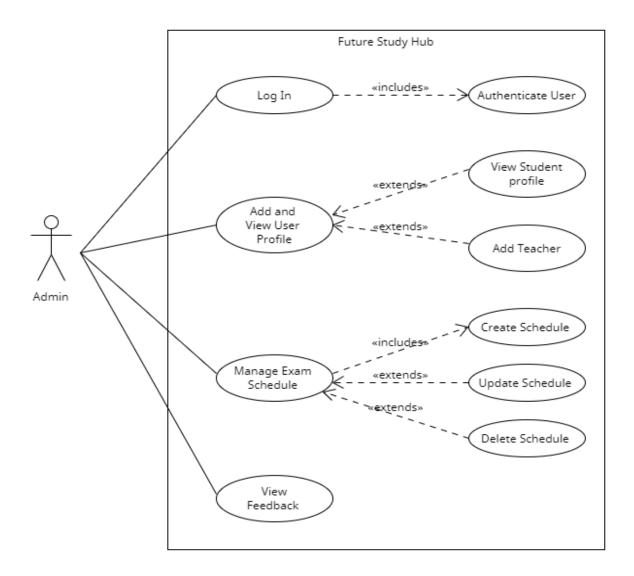
#### 4.1 Use case Diagram: -

#### 4.1.1 List of Users: -

- 1. Admin
- 2. Teacher
- 3. Student

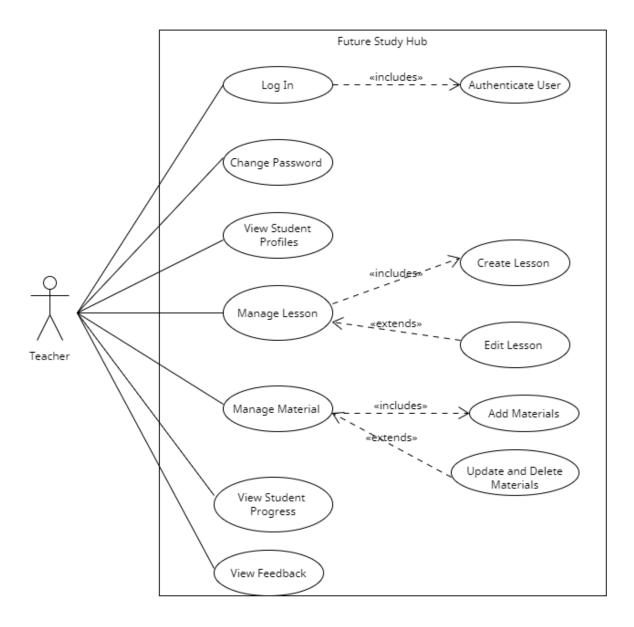
#### 4.1.2 Draw Use case Diagram: -

> Admin: -



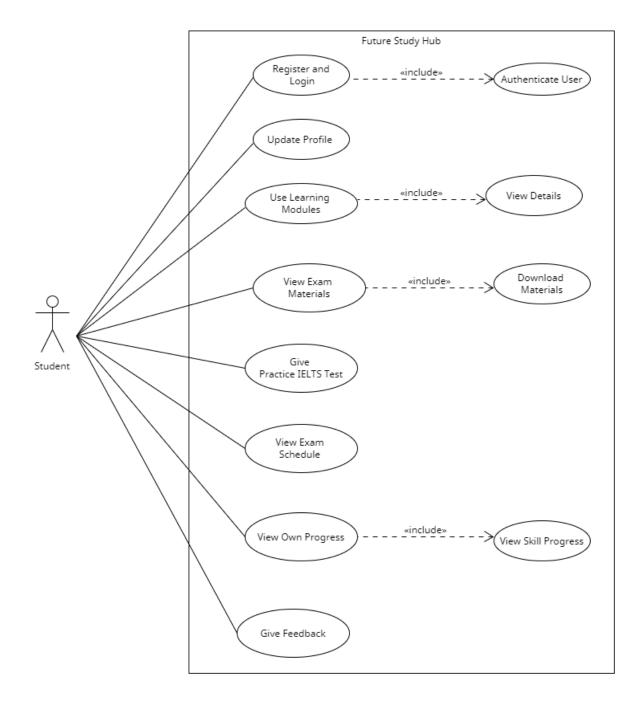
➤ Figure 1: UCD for Admin

#### > Teacher: -



➤ Figure 2: UCD for Teacher

#### > Student: -



> Figure 3: UCD for Student

#### 4.2 Activity Diagram: -

➤ Login: -

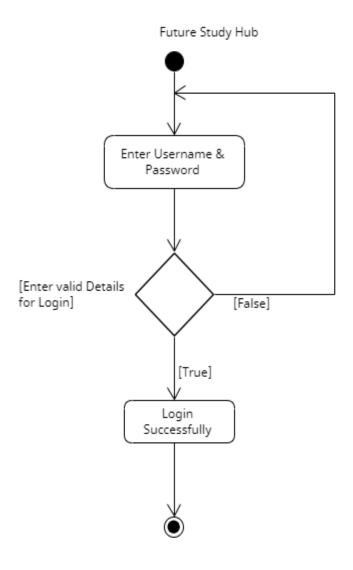


Figure 4: AD for Login

#### Registration: -

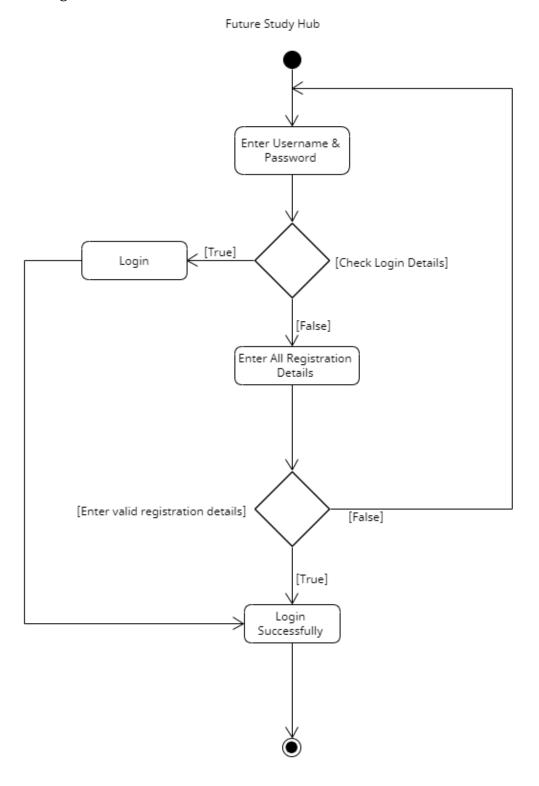


Figure 5: AD for Registration

Material File Upload: -

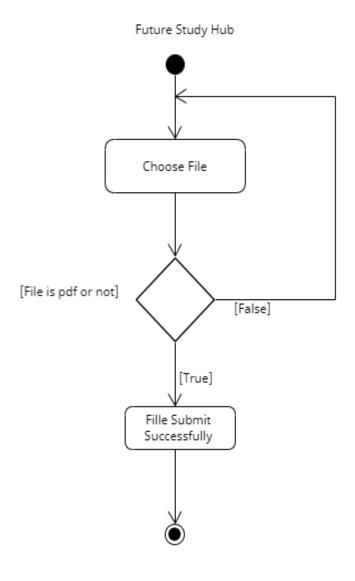


Figure 6: AD for Material File Upload

#### 5 System Model: -

#### 5.1 Prototyping Model Implementation for Our Project: -

1. Model Overview: - In the context of "Future Study Hub," a prototyping system model can be defined as a preliminary version or mock-up of the actual system, aimed at validating key functionalities, user interactions, and design aspects before proceeding to full-scale development. The prototyping system model serves as a visual representation or simulation of the final system, allowing stakeholders to provide feedback, identify potential issues, and refine requirements early in the development process.

#### 2. Reason: -

- **1. Basic Functionality Representation:** The prototyping system model includes essential functionalities such as user registration, login, profile management, access to study materials, practice tests, feedback submission, and progress tracking. These functionalities provide a foundation for user interactions and system navigation.
- **2. User Interface Design: -** The prototype features a user-friendly interface with navigation controls, input fields, buttons, and interactive elements resembling the final system's design. It focuses on usability, simplicity, and intuitiveness to enhance user experience.
- **3. Limited Functionality Implementation:** While the prototype demonstrates core functionalities, it may not fully implement backend processes or database interactions. Instead, it utilizes simulated data or simplified algorithms to mimic system behaviour and responses.

- **4. Rapid Iterative Development: -** The prototyping system model follows an iterative development approach, allowing for quick modifications, additions, or refinements based on stakeholder feedback. It facilitates agile development practices and fosters collaboration between developers, designers, and end-users.
- **5. Feedback Collection Mechanism: -** The prototype includes mechanisms for collecting user feedback, comments, and suggestions during usability testing sessions or demonstrations. This feedback is crucial for identifying usability issues, improving user flows, and validating system requirements.

## 6 Database Design: -

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

### **Admin Table**

Field Name	Data Type	Constraints	Description	Example Values
admin_id	INT	Not Null, Primary Key	Unique identifier for admin	1
admin_name	VARCHAR (30)	Not Null	Name of the admin	"Admin123"
email	VARCHAR (30)	Not Null	Email address of the admin	admin@example.com
password	VARCHAR (15)	Not Null	Password of the admin	Admin@123

### **Module Table**

Field Name	Data Type	Constraints	Description	Example Values
module_id	INT	Not Null, Primary Key	Unique identifier for Module	1
module_name	VARCHAR (10)	Not Null	Name of the Module	General
description	VARCHAR (255)		Description of the Module	General module for normal English

## **Teacher Table**

Field Name	Data Type	Constraints	Description	Example Values
teacher_id	INT	Not Null, Primary Key	Unique identifier for each Teacher	1
teacher_name	VARCHAR (30)	Not Null	Name of the Teacher	"Sujal hirpara"
email	VARCHAR (50)	Not Null	Email address of the Teacher	sujal12@gmail.com
contact_no	INT	Not Null	Contact no of Teacher	9807654321
gender	VARCHAR (10)	Not Null	Gender of Teacher	Male
dob	DATE	Not Null	birth date of Teacher	25-03-1995
password	VARCHAR (30)	Not Null	Password of the Teacher	Student@123
module_id	INT	Foreign Key	Foreign key referencing the Module table	1
hire_date	Date Time		Date of teacher's hiring	1/15/2023

## **Subject Table**

Field Name	Data Type	Constraints	Description	<b>Example Values</b>
sub_id	INT	Not Null, Primary Key	Unique identifier for each Subject	1
sub_name	VARCHAR (10)	Not Null	Name of the Subject	Reading
module_id	INT	Foreign Key	Foreign key referencing the Module table	1
description	VARCHAR (255)		Description of the Subject	Reading in English study in this subject

## **Student Table**

Field Name	Data Type	Constraints	Description	Example Values
student_id	INT	Not Null, Primary Key	Unique identifier for each student	1
student_name	VARCHAR (30)	Not Null	Name of the student	"Preet vachhani"
email	VARCHAR (50)	Not Null	Email address of the student	preet12@gmail.comm
gender	VARCHAR (10)	Not Null	Gender of Teacher	Male
contact_no	INT	Not Null	Contact no of Students	9087654321
dob	DATE	Not Null	birth date of Student	26-05-2005
password	VARCHAR (30)	Not Null	Password of the Student	Student@123
enrollment_date	Date Time		Date of enrolment	1/15/2023

## **Exam Table**

Field Name	Data Type	Constraints	Description	Example Values
exam_id	INT	Not Null, Primary Key	Unique identifier for each exam	1
exam_name	VARCHAR (30)	Not Null	Name of the exam	"Final Exam"
exam_date	Date Time	Not Null	Date of the exam	12/02/2024: 12:20:30
total_marks	INT	Not Null	Total marks of exam	50
passing_marks	INT		Passing marks of exam	25
description	VARCHAR (255)		Description of the Exam	Chapter 1, topic 1 exam
sub_id	INT	Foreign Key	Foreign key referencing the Sub- Subject table	1

### **Student Exam Table**

Field Name	Data Type	Constraints	Description	Example Values
student_exam_id	INT	Not Null, Primary Key	Unique identifier for each student exam	1
obtaion_marks	INT	Not Null	Obtaion marks of exam	30
exam_id	INT	Foreign Key	Foreign key referencing the exam table	1
student_id	INT	Foreign Key	Foreign key referencing the student table	1
student_exam_date	Date Time	Not NULL current_timestamp()	Date of enrolment	1/15/2023

## **Notice Table**

Field Name	Data Type	Constraints	Description	Example Values
notice_id	INT	Not Null, Primary Key	Unique identifier for each notice entry	1
notice_title	VARCHAR (100)	Not Null	Title of the notice	" Important Update "
description	VARCHAR (255)	Not Null	Description of the notice	"Please be advised"
teacher_id	INT	Foreign Key	Foreign key referencing the Teacher table	1
notice_date	Date Time	Not NULL current_timestamp()	Date of enrolment	1/15/2023

### **Material Table**

Field Name	Data Type	Constraints	Description	Example Values
material_id	INT	Not Null, Primary Key	Unique identifier for each Material	1
material_name	VARCHAR (100)	Not Null	Name of the Material	Chapter 1 Slides, "Lab Manual"
description	VARCHAR (255)		Description of the material	Presentation slides for Chapter 1
sub_id	INT	Foreign Key	Foreign key referencing the Sub- Subject table	1
material_path	VARCHAR (255)	Not Null	Material path	

## Feedback Table

Field Name	Data Type	Constraints	Description	Example Values
feedback_id	INT	Not Null, Primary Key	Unique identifier for each feedback	1
student_id	INT	Foreign Key	Foreign key referencing the student table	1
teacher_id	INT	Foreign Key	Foreign key referencing the Teacher table	1
feedback_text	VARCHAR (255)		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	Constraints	Description	<b>Example Values</b>
payment_id	INT	Not Null, Primary Key	Unique identifier for each payment	101
student_id	INT	Foreign Key	Foreign key referencing the student table	1
amount	DOUBLE	Not Null	Amounts of Payment	₹ 1,000.00
payment_date	DATETIME		Date and Time of the Payment	24-03-2023
method	VARCHAR (100)		Payment methods (e.g., Credit card, PayPal)	Google Pay (UPI)
status	VARCHAR (10)		Status of the payment (e.g., Paid, Pending)	SUCCESSFULL

#### 6.2 Number of tables: -

Total 11 Tables

### 7 User Interface Design

7.1 Screenshot of Homepage: -

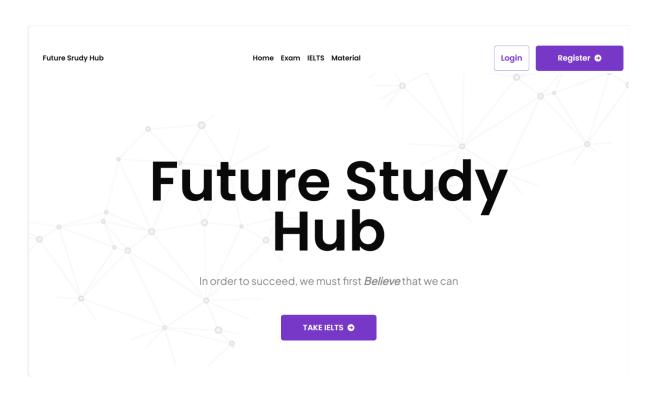


Figure 7: Home Page

**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," "Exam," "IELTS," and "Material." 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.

- 7.2 Screenshot of UI: -
  - 1. Sign Up Page: -

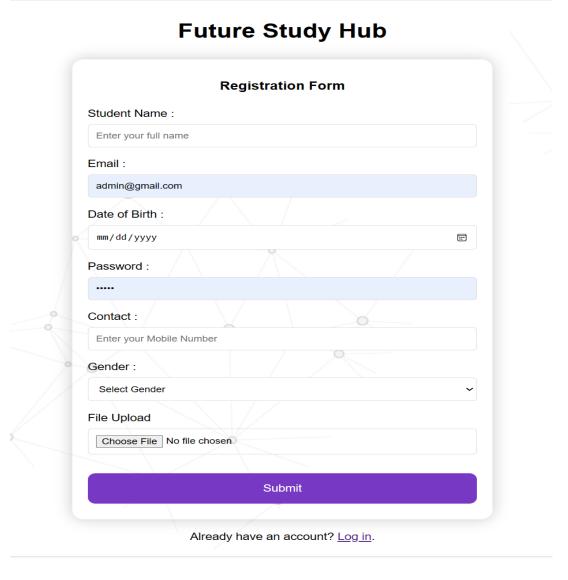
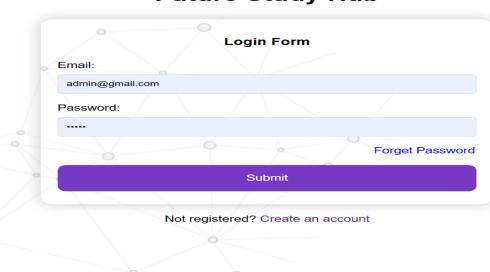


Figure 8: Sign Up Page

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, gender and file upload to create a new user account and enable
access to the system services. After click submit button filled all data store
in our system's database.

- Used control with justification: -
  - Text Input Fields (User Name, Email, Password, Phone No, Gender, File Upload): - 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.

2. Login Page: -



### Future Study Hub

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.
  - Submit 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.

Online Classes For IELTS Learning.

#### 3. Course: -

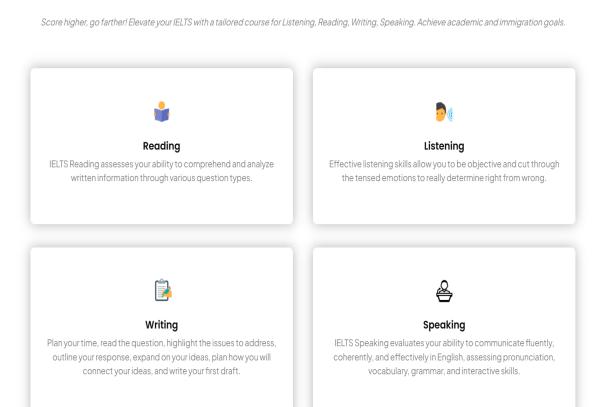
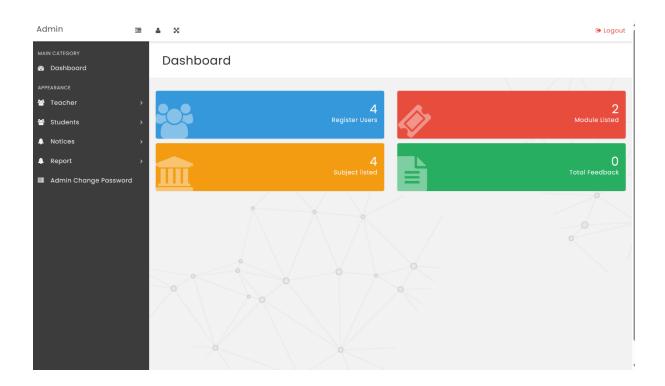


Figure 10: Courses

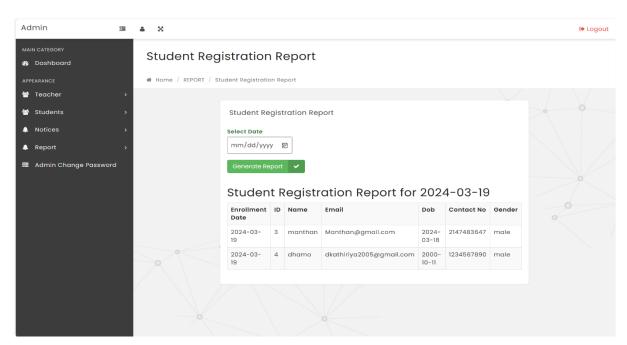
Purpose of the UI: - The purpose of subjects is providing a user-friendly interface
for managing academic and general subjects efficiently. It offers features like to
select subject and open that subject along with essential details such as subject
name, description, and associated modules.

#### 8 Dashboard: -

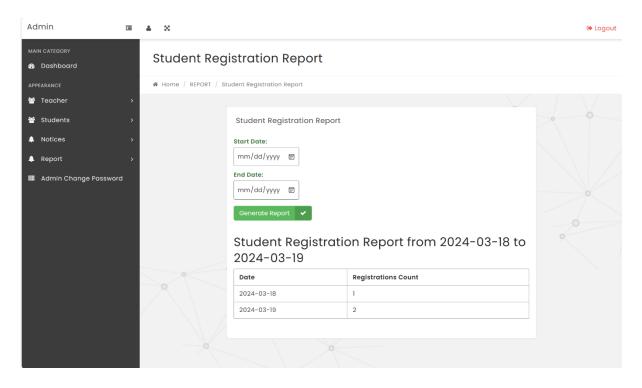
Admin Dashboard: -



Student Registration Report Date Wise: -



Student Registration Report Date Wise: -



### 9 Test Case: -

• Add To Material Test Case: -

Test Case Summary Related	T_01 Add Materials RS001 1. XAMPP	T_01 Add Materials RS002	T_01 Add Materials	T_01 Add Materials
Summary Related	RS001		Add Materials	Add Materials
		RS002		
Requirement	1. XAMPP		RS003	RS004
		1. XAMPP	1. XAMPP	1. XAMPP
	1.Tester select Material. 2.Tester click on add Material Button for add material. 3. Tester view, update, delete material.	1.Tester select Material. 2.Tester click on add Material Button for add material. 3. Tester view, update, delete material.	1.Tester select Material. 2.Tester click on add Material Button for add material. 3. Tester view, update, delete material.	1.Tester select Material. 2.Tester click on add Material Button for add material. 3. Tester view, update, delete material.
	1.Selected Material add Successfully. 2.On click on add button material add. 3. Upload materials show and perform any operation on that like update or delete.	1.Selected Material not add. 2.On click on add button material add. 3. Upload materials show and perform any operation on that like update or delete.	1.Selected Material not add. 2.On click on add button material not add. 3. Upload materials show and perform any operation on that like update or delete.	1.Selected Material not add. 2.On click on add button material add. 3. Upload materials not show and not perform any operation on that like update or delete.
Expected Result	Add material show and perform operations on them like update or delete.	Add material show and perform operations on them like update or delete.	Add material show and perform operations on them like update or delete.	Add material show and perform operations on them like update or delete.
1	Add material show and perform operations on them like update or delete. Pass	Material was not selected that's why not add.  Fail	Add button not work so that material not add Fail	Uploaded materials not work update or delete operation.

### • Generate Report: -

	Example 1	Example 2	Example 3	Example 4
Test Case Id	T_01	T_01	T_01	T_01
Test Case Summary	Generate Report.	Generate Report.	Generate Report.	Generate Report.
Related Requirement	RS001	RS002	RS003	RS004
Prerequisites	1. XAMPP	1. XAMPP	1. XAMPP	1. XAMPP
Test Step  Test Data	1.Tester select date. 2. Tester click on generate report button. 3.Tester view selected date report. 1. Date select. 2.click on generate button report generated. 3.selected date	1.Tester select date. 2. Tester click on generate report button. 3.Tester view selected date report. 1.Date not select. 2.click on generate button report generated. 3.selected date	1.Tester select date. 2. Tester click on generate report button. 3.Tester view selected date report. 1. Date select. 2. click on generate button report not generated.	1.Tester select date. 2. Tester click on generate report button. 3.Tester view selected date report. 1. Date select. 2.click on generate button report generated. 3.selected date
	report show.	report show.	3.selected date report show.	report not show.
Expected Result	Click on generate button selected date report show.	Click on generate button selected date report show.	Click on generate button selected date report show.	Click on generate button selected date report show.
Actual Result	Click on generate button selected date report show.	Date not selected that's why click on generate button report not show.	Click on generate button report not generated.	Selected date not any data in database that's why not report show.
Status	Pass	Fail	Fail	Fail

#### • Feedback: -

	Example 1	Example 2	Example 3	Example 4
Test Case Id	T_01	T_01	T_01	T_01
Test Case	submit feedback	submit feedback	submit feedback	submit feedback
Summary				
Related	RS001	RS002	RS003	RS004
Requirement				
Prerequisites	1. XAMPP	1. XAMPP	1. XAMPP	1. XAMPP
Test Step	1.tester	1.tester	1.tester	1.tester
	write	write	write	write
	feedback	feedback	feedback	feedback
	2.tester	2.tester	2.tester	2. tester
	submit	submit	submit	submit
	feedback	feedback	feedback	feedback
	tester see	tester see	tester see	tester see
	feedback that	feedback that	feedback that	feedback that
	submitted	submitted	submitted	submitted
	successfully	successfully	successfully	successfully
Test Data	1. feedback is	1.feedback	1.feedback	1. feedback
	notwritten	written	written	written
	2.submit	successfully	successfully.	successfully.
	button iswork	2.submit button	2.submit	2.submit
	3. show feedback	is not work	buttonwork	button iswork
	on admin	3.show feedback	3.feedback	3. show feedback
		on admin	not	on admin
			show on admin	
<b>Expected Result</b>	Show feedback to	Show feedback to	Show feedback	Show feedback to
	admin	admin	toadmin	admin
Actual Result	feedback not show	feedback not	admin not see	Show feedback
		submit on click on	feedback	
		button		
Status	Pass	Fail	Fail	Fail
	<u> </u>	L	L	