SECV2223 (SECTION 10)
WEB PROGRAMMING

GROUP PROJECT :

ACADEMIC TASK MANAGING SYSTEM

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1.0 PROJECT OVERVIEW

Our project, the **Academic Task Managing System**, is designed to simplify and organize academic responsibilities by streamlining task tracking, deadlines, and performance records. The system focuses on three particular types of users, which are **students**, **lecturers**, and **academic coordinators**.

- **Students** can easily manage their coursework, receive task reminders, and track deadlines across subjects.
- **Lecturers** are able to create and assign academic tasks, set due dates, and monitor student progress.
- **Academic coordinators** have access to an overview of academic performance across cohorts, allowing them to manage reporting, identify trends, and support academic planning.

By centralizing these functions in a user-friendly interface, our system aims to reduce the friction of academic workload management and enhance productivity across the academic ecosystem.

2.0 TOOLS & TECHNOLOGY

TOOLS	DESCRIPTION
HTML CSS	**Front-End :** Structure and styling of the user interface.
Javascript	**Front-End :** Client-side validation and interactivity
PHP	**Back-End :** Server-side logic for handling CRUD operations and interacting with the database.
MySQL	**Database :** Relational database management system for storing greeting card data.

3.0 SYSTEM MODULE

User	Description
Student	The Student Module allows students to manage their academic tasks independently and collaboratively. Students can create personal tasks, view tasks assigned by lecturers, track progress, and update their task status. This module promotes academic self-management and organization.
Lecturers	The Lecturer Module enables lecturers to create academic tasks and assign them to enrolled students. Lecturers can manage course details, monitor task submissions, and edit or delete outdated content. They also have the ability to enroll students in courses. This module focuses on efficient academic delivery and performance tracking.
Academic Coordinators	The Academic Coordinator module provides administrative control over the system. Coordinators can manage user accounts (students, lecturers, and other coordinators), access academic performance reports, and monitor system-wide task progress. This module also includes tools for exporting data and generating reports to support academic planning and decision-making. The coordinator's role ensures oversight, integrity, and effective use of the system across departments.

4.0 MODULE FUNCTIONALITY

4.1 Main Functionality for this Module

User	Functionality
Student	1. Students can register and log in to the system using their full name, email, password, and role. 2. Students can create, edit, and delete their own tasks, including uploading file attachments. 3. Students can view tasks assigned to them by lecturers and tasks they created themselves. 4. Students can filter tasks by type (Assignment, Exam, Study Session) or search by title. 5. Students can view their task completion progress via a dashboard progress bar. 6. Students can reset their password using the forgot password feature. 7. Students can view their personal information on the dashboard. Email and Password for Project Testing <table><tr><td>No</td><td>Email</td><td>Password</td><td>UserType</td></tr><tr><td>1</td><td>annmichael@graduate.utm.my</td><td>12345678</td><td>Student</td></tr><tr><td>2</td><td>hanani-04@graduate.utm.my</td><td>12345678</td><td>Student</td></tr><tr><td>3</td><td>izzatybalqis@graduate.utm.my</td><td>12345678</td><td>Student</td></tr></table>

Lecturers	1. Lecturers can register and log in to the system using their email, password, and role.
	2. Lecturers can create, edit, and delete their tasks that they assigned to students using courses.
	3. Lecturers can create, edit, and delete courses, including enrolling/unenrolling students.
	4. Lecturers can view the tasks they've assigned to students.
	5. Lecturers can filter tasks by type or search by title on the dashboard.
	6. Lecturers can reset their password using the forgot password feature.

Email and Password for Project Testing

No	Email	Password	UserType
1	ellebenjamin@graduate.utm.my	12345678	Lecturer

Academic Coordinators	1. Academic Coordinators can register and log in using their email, password, and role.
	2. Academic Coordinators can view and delete user accounts (students, lecturers, coordinators).
	3. Academic Coordinators can access a reports page.
	4. Academic Coordinators can print all reports.
	5. Academic Coordinators can export data to a CSV file.
	6. Academic Coordinators can reset their password using the forgot password feature.

Email and Password for Project Testing

No	Email	Password	UserType
1	nurainabalqis@graduate.utm.my	12345678	Academic

			Coordinator

4.2 Extra Functions for this Module

The Academic Task Managing System includes additional features that enhance usability, security, and task management across all user roles. These extra functions, implemented directly in the source code, provide a more interactive and effective user experience.

1. Role-Based Access Control
2. Task File Attachment System
3. Task Filtering and Searching
4. Progress Bar Indicator
5. Secure Task Editing and Deletion
6. Forgot and Reset Password Feature
7. Course Enrollment and Student Management
8. Email and Role Validation on Login

5.0 DATABASE DESIGN

Database name: academic_task_db

Tables	Attributes	Description
tasks	id (PK) user_id (FK) subject type title description due_date priority status file assigned_to assigned_by	Stores all academic tasks. Contains id (primary key and creator identifier), user_id (foreign key referencing the user who created or is associated with the task), assigned_to (foreign key referencing the user the task is assigned to), assigned_by (foreign key referencing the user who assigned the task), task title, type, due_date, priority, status, and file.
users	id (PK) name email password role	Stores user information. Contains id (primary key), name, email, password, and role to identify and manage user accounts.
Courses	id (PK) lecturer_id (FK) course_code course_name description	Created by lecturers. Includes id (primary key), lecturer_id (foreign key referencing the lecturer who created the course), course_code, course_name, and an optional description for course details.
Course_enroll ments	id (PK) course_id (FK)	Intermediate table linking students to courses for many-to-many relationships. Contains id

	student_id (FK) enrolled_at	(primary key), course_id (foreign key referencing the courses table), student_id (foreign key referencing the users table for students), and enrolled_at to track enrollment timestamps.

5.1 Database Design with Entity Relationship Diagram (ERD)

task

id (PK)
user_id (FK)
assigned_by
assigned_to
subject
type
title
description
due_date
priority
status
file

users

id (PK)
name
email
password
role

..   ◄ view   1..1

..   ◄ assigns   1..*

..

1..*   1..*

▼ creates

▼ enrolled

1..1

course

id (PK)
lecturer_id (FK)
course_code
course_name
description

has enroll ►

..   *..*

1..*

course_enrollments

id (PK)
course_id (FK)
student_id (FK)
enrolled_at
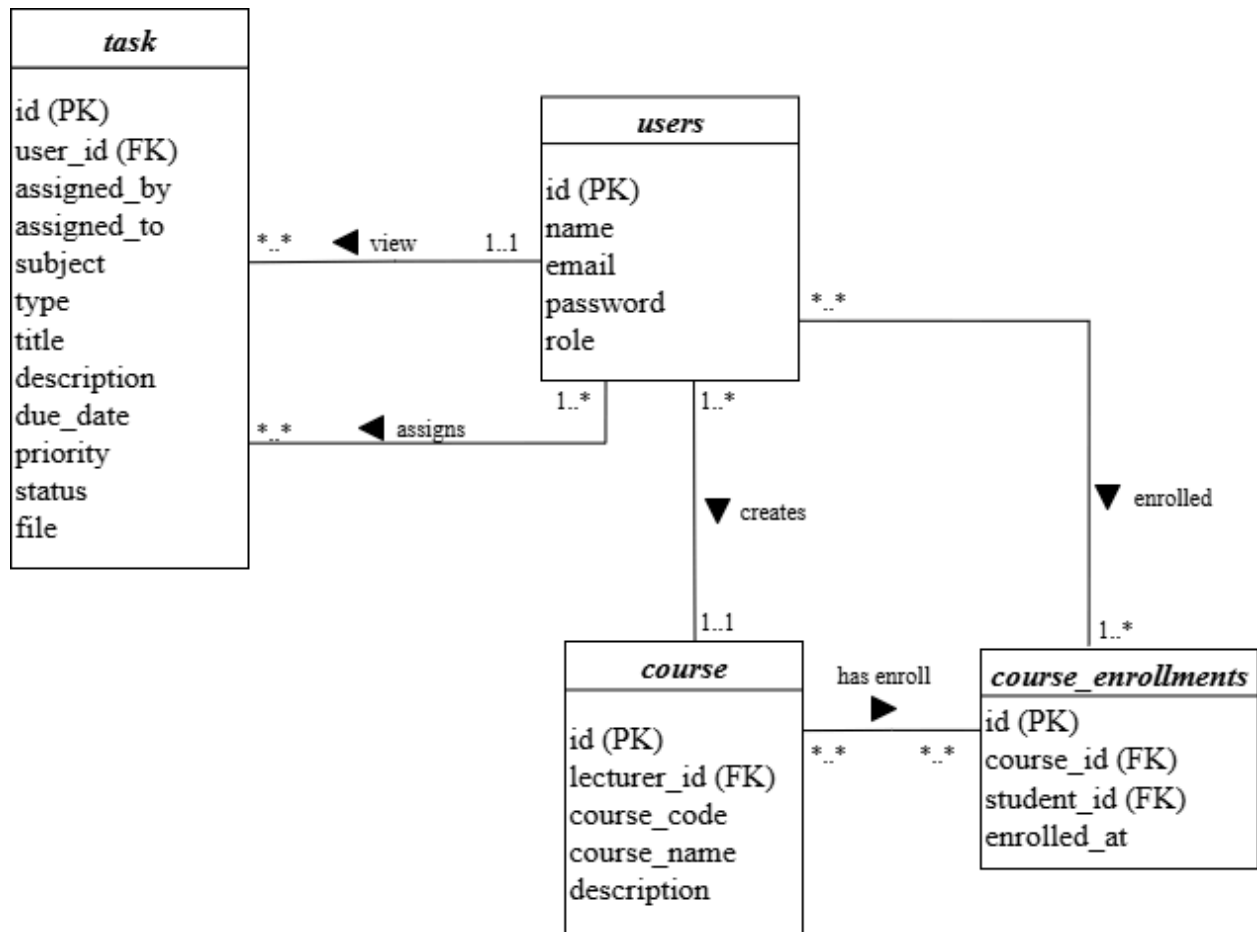
6.0 SQL

```sql
CREATE TABLE users (
    id INT PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    email VARCHAR(100) NOT NULL UNIQUE,
    password VARCHAR(255) NOT NULL,
    role ENUM('student', 'lecturer', 'academic_coordinator') NOT NULL
);

CREATE TABLE task (
    id INT PRIMARY KEY,
    user_id INT,
    subject VARCHAR(100),
    type VARCHAR(50),
    title VARCHAR(100),
    description TEXT,
    due_date DATE,
    priority ENUM('Low', 'Medium', 'High'),
    status VARCHAR(50),
    file VARCHAR(255),
    assigned_to INT,
    assigned_by INT,
    course_id INT
);

CREATE TABLE course_enrollments (
    id INT PRIMARY KEY,
    course_id INT,
    student_id INT
);
```
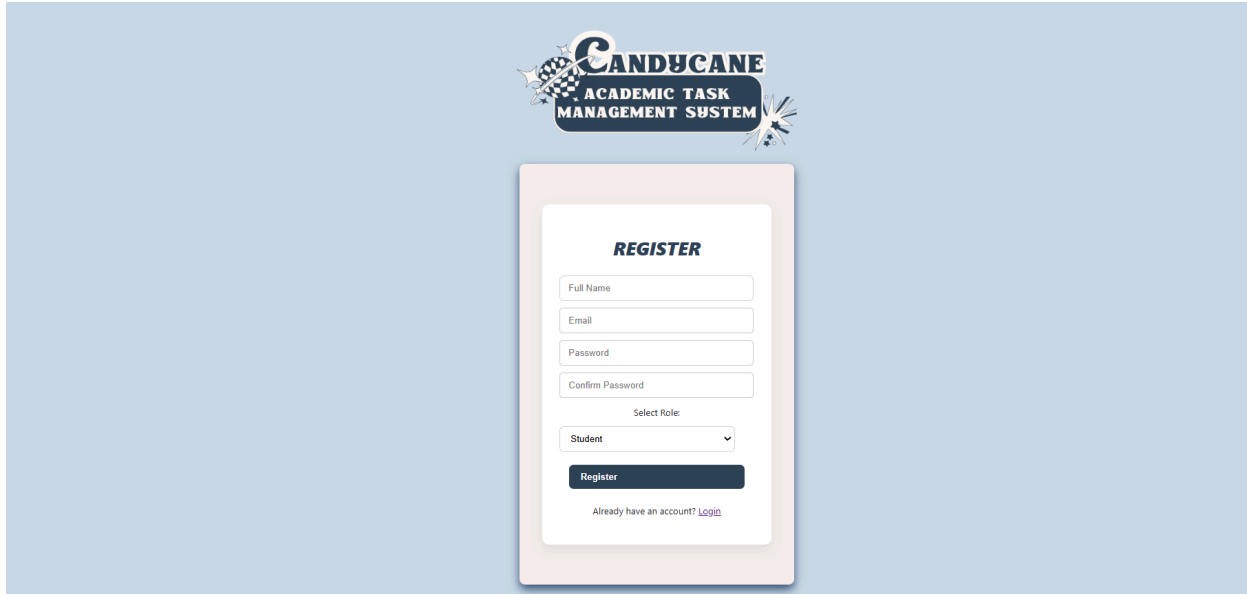
```sql
CREATE TABLE course (
    id INT PRIMARY KEY,
    lecturer_id INT,
    course_code VARCHAR(20),
    course_name VARCHAR(100),
    description TEXT
);
```

7.0 USER MANUAL
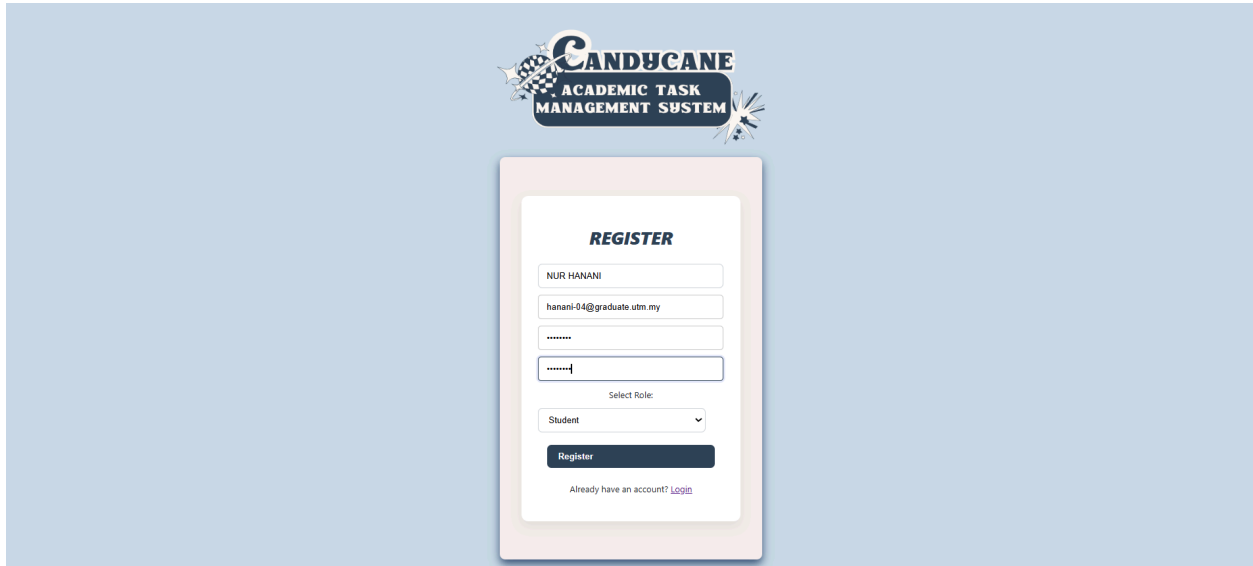
7.1 STUDENT

1. **Register Page**

1) Navigate to the registration page by clicking the Register link on the login page.

2) Enter the following details:

   - Full Name: Your full name.

   - Email Address: A valid email address.

   - Password: A secure password.

   - Confirm Password: Re-enter the password to confirm.

   - Role: Select Student from the dropdown menu.

3) Click the Register button to create the account.

4) Upon successful registration, you will be redirected to the login page with a confirmation message.

2. Login Page

1) Navigate to the login page.

2) Enter the following details:

- Email Address: Your registered email.

- Password: Your account password.

- Role: Select Student from the dropdown menu.

3) Click the Login button to access the dashboard.

4) If login credentials are incorrect, an error message will display.
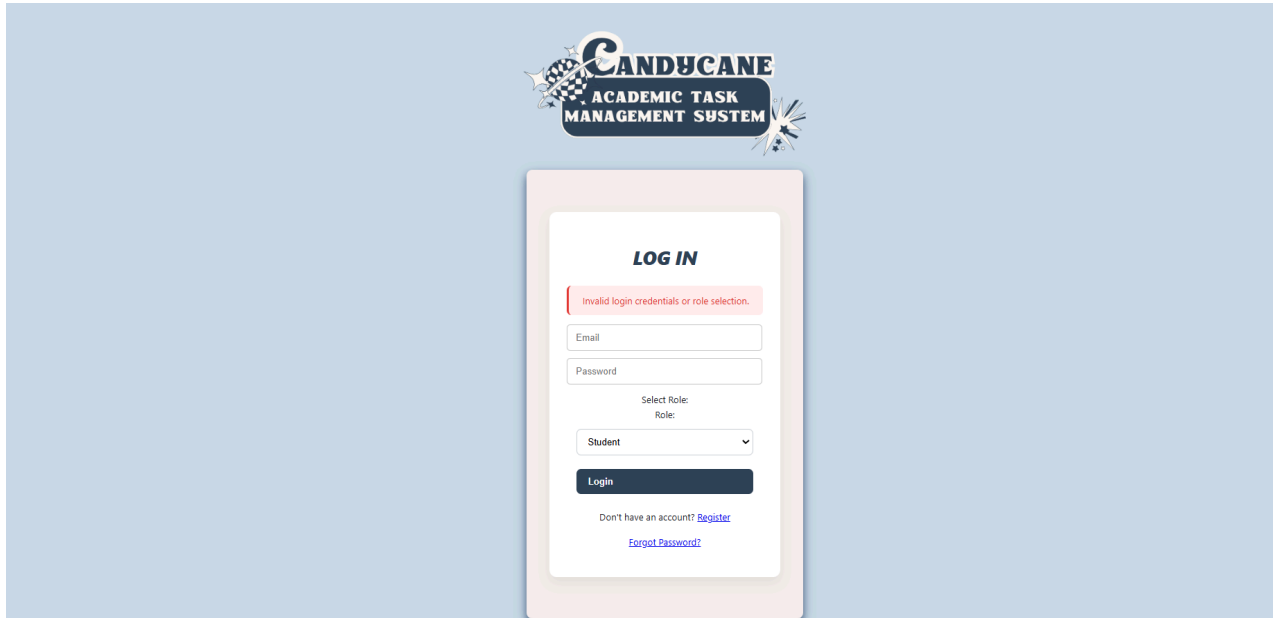
Additional Features:

- Click Forgot Password? to reset your password by entering your registered email address.
- Click Register to create a new account if you don't have one.

3. Dashboard
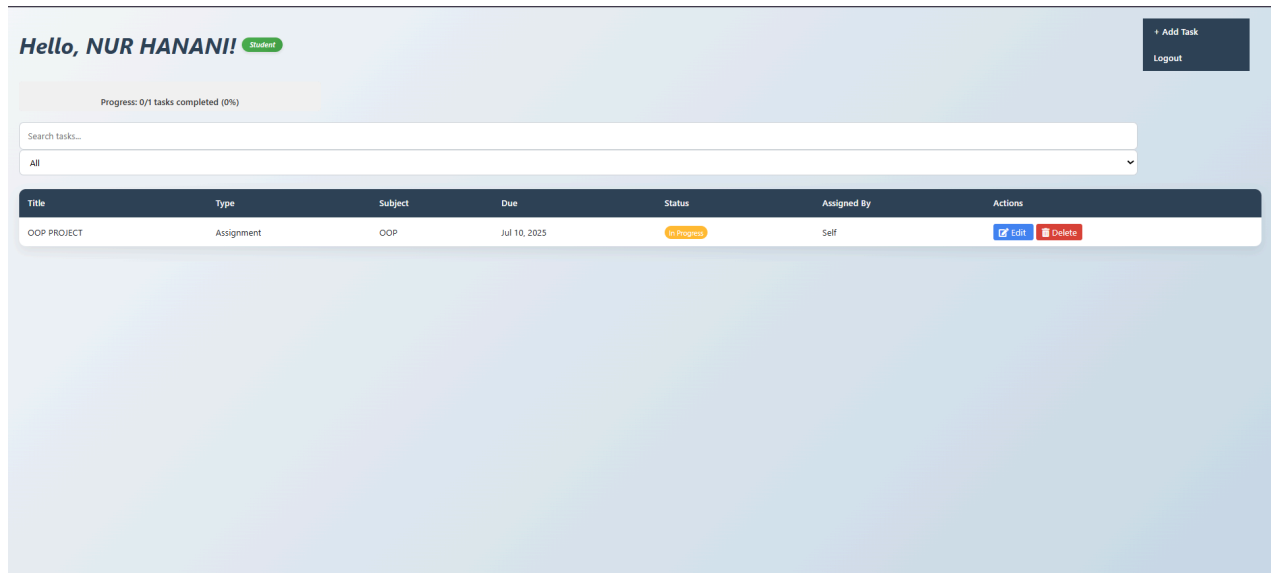
No	Elements	Description
1	Button to redirect to the "Add Task" page	Redirect to a page where the student can add a new task.
2	Progress Bar	Displays the percentage of completed tasks based on the total tasks (self-created and assigned).
3	Search Input	Allows searching tasks by title.
4	Task Type Filter	Filters tasks by type (Assignment, Exam, Study Session) or shows all tasks.
5	Task List Table	Displays tasks with columns for Title, Type,

		Subject, Due Date, Status, Assigned By, and Actions (Edit/Delete).
6	Logout Button	Logs the student out and redirects to the login page.
7	User Greeting	Displays a personalized greeting with the student's name and role.

4. Add Task Page

1) Click the Add Task button on the dashboard to go to the "Add Task" page.

2) Fill in the task details:

   a) Subject/Course: Enter the subject or course name.

   b) Task Type: Select from Assignment, Exam, or Study Session.

   c) Title: Provide a task title.

   d) Description: Add an optional description of the task.

   e) Due Date: Choose a due date and time using the datetime picker.

   f) Priority: Select Low, Medium, or High.

   g) Status: Select Not Started, In Progress, or Completed.

   h) Attachment: Optionally upload a file to include with the task.

3) Click the Create Task button to save the task.

4) You will be redirected to the dashboard, where the new task appears in the task list.

5. Edit Task Page

1) On the dashboard, click the Edit button next to a task.

2) Update the desired fields:Subject, Task Type, Title, Description, Due Date, Priority, and Status.

3) Click the Update Task button to save changes.

4) You will be redirected to the dashboard with the updated task reflected in the list.

6. Forgot Password Page

1) On the login page, click Forgot Password?.
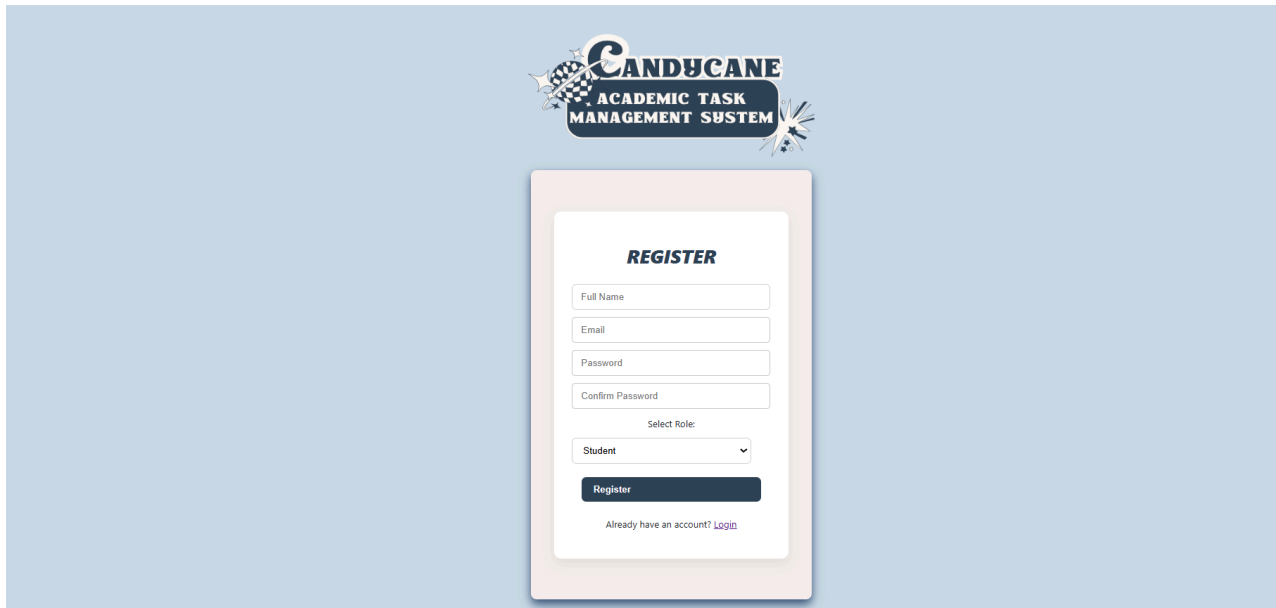
2) Enter your registered email address and click Next.

3) If the email exists, you will be redirected to the reset password page.

4) On the reset password page, enter a new password and confirm it.

5) Click Reset Password to update the password.

6) You will be redirected to the login page with a success message.

Testing Credentials

No	Email	Password	UserType
1	hanani-04@graduate.utm.my	12345678	Student

7.2 LECTURER

1. **Register Page**

1. Navigate to the registration page by clicking the Register link on the login page.

2. Enter the following details:

   a. Full Name: Your full name.

   b. Email Address: A valid email address.

   c. Password: A secure password.

   d. Confirm Password: Re-enter the password to confirm.

   e. Role: Select Lecturer from the dropdown menu.

3. Click the Register button to create the account.

4. Upon successful registration, you will be redirected to the login page with a confirmation message.

2. Login Page


1. Navigate to the login page.

2. Enter the following details:

    a. Email Address: Your registered email.

    b. Password: Your account password.

    c. Role: Select Lecturer from the dropdown menu.

3. Click the Login button to access the dashboard.

4. If login credentials are incorrect, an error message will display

.

Additional Features:

- Click Forgot Password? to reset your password by entering your registered email address.
- Click Register to create a new account if you don't have one.

3. Dashboard Page
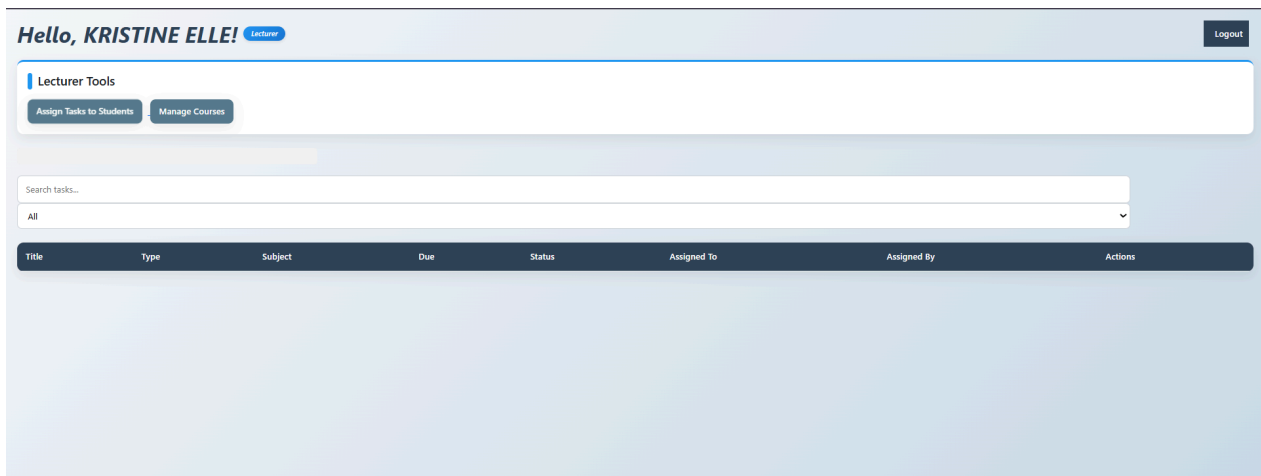
No	Elements	Description
1	Button to redirect to the "Add Task" page	Redirect to a page where the student can add a new task.
2	Lecturer Tools	Links to "Assign Tasks to Students" and "Manage Courses" pages for lecturer-specific features.
3	Progress Bar	Displays the percentage of completed tasks based on the total tasks (self-created and assigned).
4	Search Input	Allows searching tasks by title.
5	Task Type Filter	Filters tasks by type (Assignment, Exam, Study Session) or shows all tasks.
6	Task List Table	Displays tasks with columns for Title, Type, Subject, Due Date, Status, Assigned By, and Actions (Edit/Delete).
7	Logout Button	Logs the student out and redirects to the login page.
8	User Greeting	Displays a personalized

		greeting with the student's name and role.

4. Assign Tasks Page

1. From the dashboard, click Assign Tasks to Students under Lecturer Tools.

2. Fill in the task details:

   3. Task Title: Enter the task title.

   4. Subject/Course: Enter the subject or course name.

   5. Task Type: Select from Assignment, Exam, or Study Session.

   6. Description: Add an optional description.

   7. Due Date: Choose a due date and time.

   8. Priority: Select Low, Medium, or High.

   9. Select Student: Choose a student from the dropdown list of registered students.

10. Click the Assign Task button to assign the task.

11. A success message will display, and the task will appear in the student's task list.

5. Manage Courses Page

1) From the dashboard, click Manage Courses under Lecturer Tools.

2) In the "Create New Course" section, enter:

    a) Course Code: A unique code.

    b) Course Name: The course name.

    c) Description: An optional course description.

3) Select students to enroll by checking their names from the list.

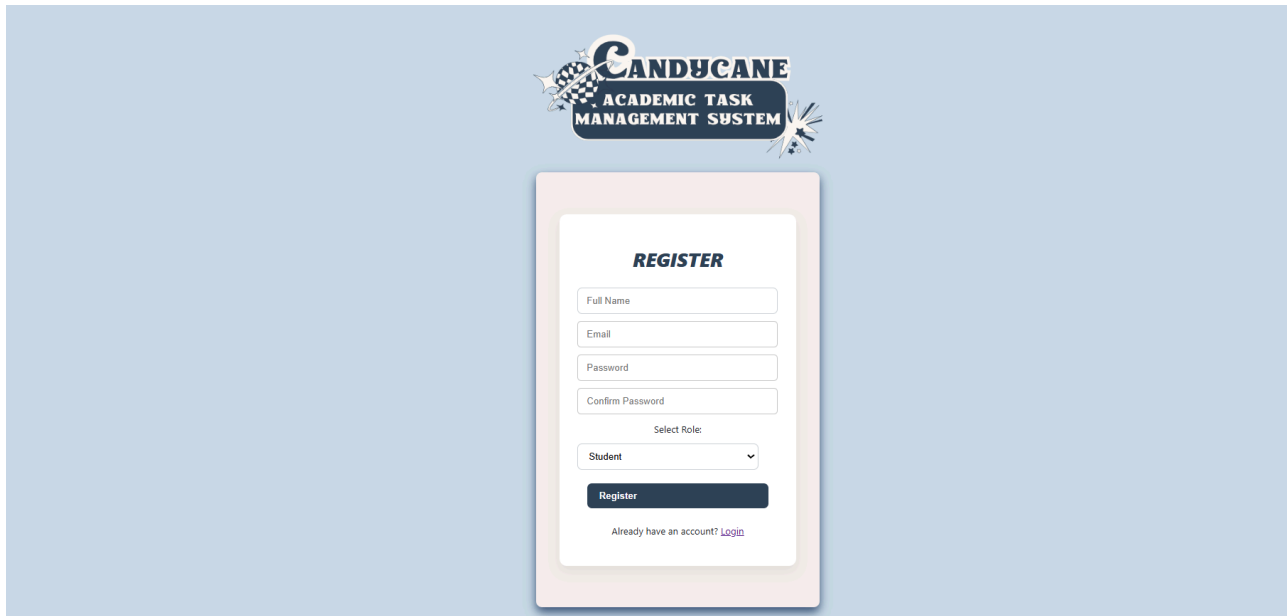4) Click the Create Course button to save the course and enroll selected students.

Testing Credentials

No	Email	Password	UserType
1	ellebenjamin@graduate.utm.my	12345678	Lecturer

7.3 ACADEMIC COORDINATOR

1. Register Page

1. Navigate to the registration page by clicking the Register link on the login page.

2. Enter the following details:

   a. Full Name: Your full name.

   b. Email Address: A valid email address.

   c. Password: A secure password.

   d. Confirm Password: Re-enter the password to confirm.

   e. Role: Select Academic Coordinator from the dropdown menu.

3. Click the Register button to create the account.

4. Upon successful registration, you will be redirected to the login page with a confirmation message.

2. Login Page

a. Navigate to the login page.

b. Enter the following details:

    i. Email Address: Your registered email.

    ii. Password: Your account password.

    iii. Role: Select Academic Coordinator from the dropdown menu.

  c. Click the Login button to access the dashboard.

  d. If login credentials are incorrect, an error message will display.

Additional Features:

- Click Forgot Password? to reset your password by entering your registered email address.
- Click Register to create a new account if you don't have one.

3. Dashboard Page
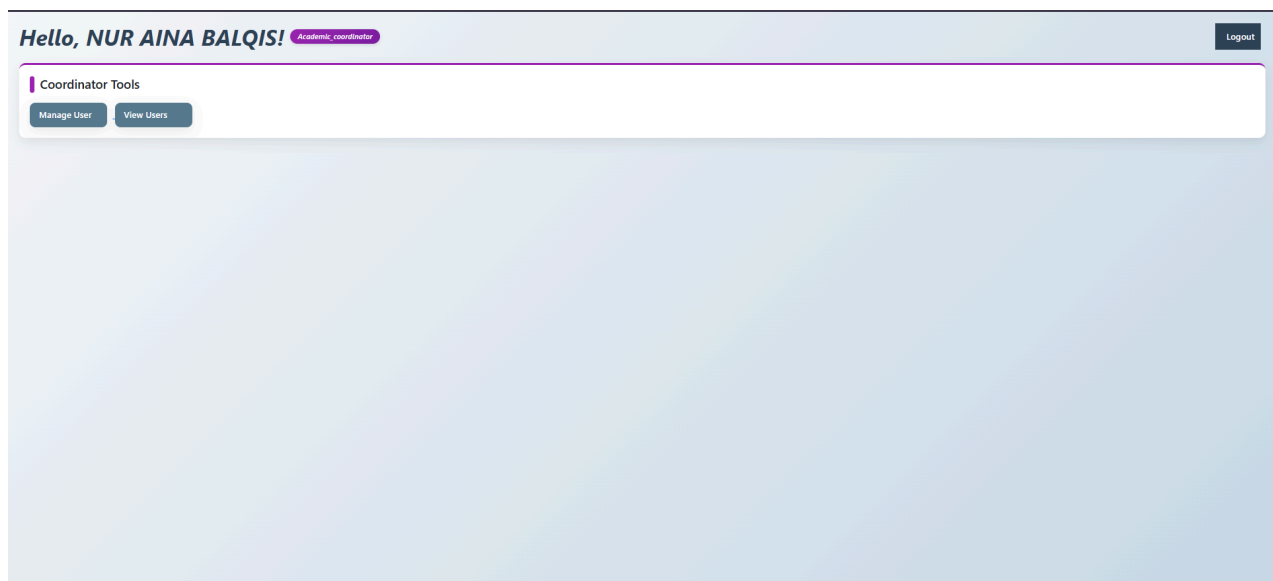
No	Elements	Description
1	User Greetings	Displays a welcome message with the coordinator's name and role.
3	User Management Tool	Allows deletion or review of existing users (students/lecturers/coordina

		tors).
4	Report Generation Tool	Generates reports based on academic progress, task status, or course data.
7	Logout Button	Logs the student out and redirects to the login page.

4. Report Page

1. From the dashboard, click View Users under Academic Coordinator Tools
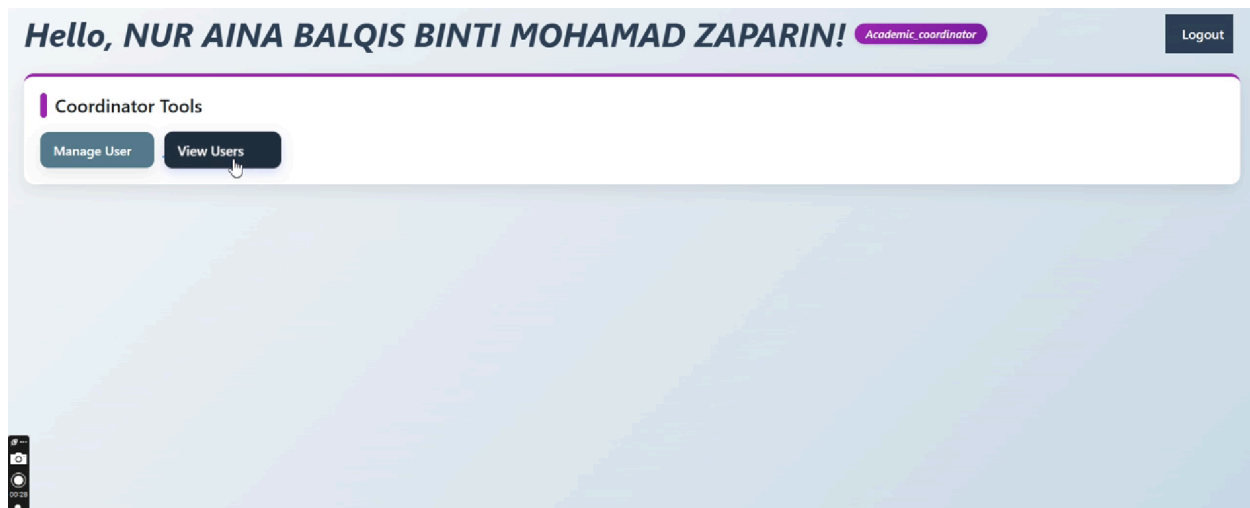
2. On the Users Page, it will display:
    a. System Overview: Displays total users (students and lecturers), total courses, total tasks, and overall system task completion rate.
    b. Course Performance: Lists each course with data such as:
        i. Course Code and Name
        ii. Number of Enrolled Students
        iii. Total Tasks Assigned
        iv. Status breakdown (Completed, In Progress, Not Started)
        v. Completion Rate (visual bar and percentage)
    c. Lecturer Performance: Shows statistic for each lecturer including:

<blockquote>
<blockquote>
<blockquote>
i.   Total Courses Managed

ii.   Tasks Assigned

iii.   Average Task Completion Rate

iv.   Performance Evaluation
</blockquote>

d.   Data Export Options: Buttons to:

<blockquote>
i.   Export course and lecturer data as CSV

ii.   Print a full academic report

iii.   Export data for external analysis
</blockquote>
</blockquote>
</blockquote>
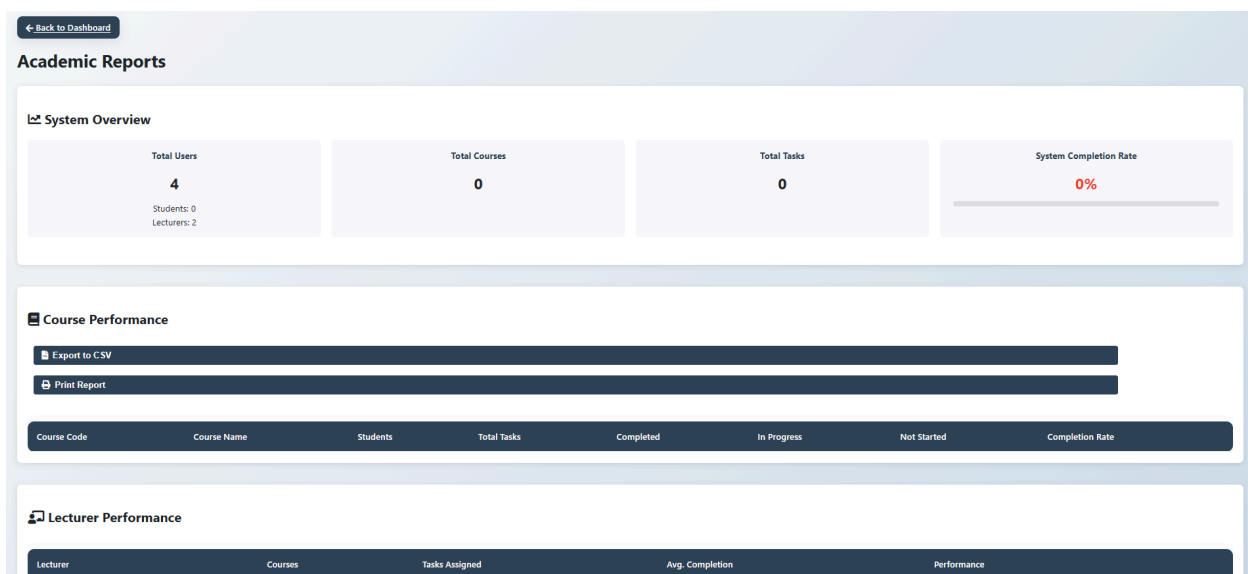
5.   User Management Page

1. From the dashboard, click Manage User under Academic Coordinator Tools

Hello, NUR AINA BALQIS BINTI MOHAMAD ZAPARIN! Academic_coordinator   Logout

Coordinator Tools

Manage User   View Users

2. The user list table will be displayed. It shows all registered users in the system including students, lecturers, and coordinators. Each row in the table contains the following details.

1. ID: Unique identifier of the user.
2. Name: Full name of the user.
3. Email: Registered email address.
4. Role: User's role (Student, Lecturer, or Academic Coordinator).
5. Action: Edit and Delete buttons.

← Back to Dashboard

User Management

ID	Name	Email	Role	Actions
1	NUR AINA BALQIS BINTI MOHAMAD ZAPARIN	nurainabalqis@graduate.utm.my	Academic_coordinator	Edit | Delete
2	KRISTINE ELLE BENJAMIN	ellebenjamin@graduate.utm.my	Lecturer	Edit | Delete
3	ABBENISHA ANN MICHAEL BENEDICT	annmichael@graduate.utm.my	Student	Edit | Delete
4	IZZATY BALQIS BINTI SUHAIMI	izzatybalqis@graduate.utm.my	Student	Edit | Delete
5	NUR HANANI BINTI AHMAD	hanani-04@graduate.utm.my	Student	Edit | Delete

3. To edit a user:
   a. Click the Edit button in the Action column.
   b. You will be redirected to the Edit User form.
   c. Update the Name, Email, or Role as needed.
   d. Click Update User to save changes.
   e. A confirmation message will be displayed, and the updated data will appear in the user list.

4. To delete a user:
   a. Click the Delete button in the Action column.
   b. A confirmation popup will appear.
   c. Click Yes to confirm deletion.
   d. The user will be removed from the system and the table will refresh.
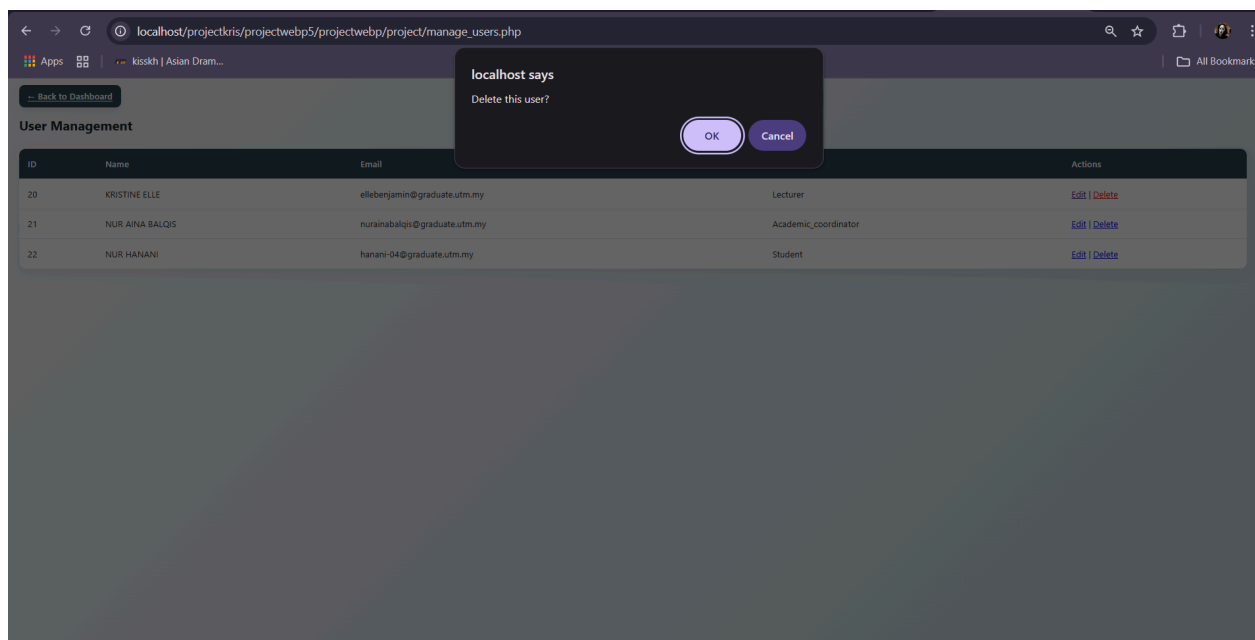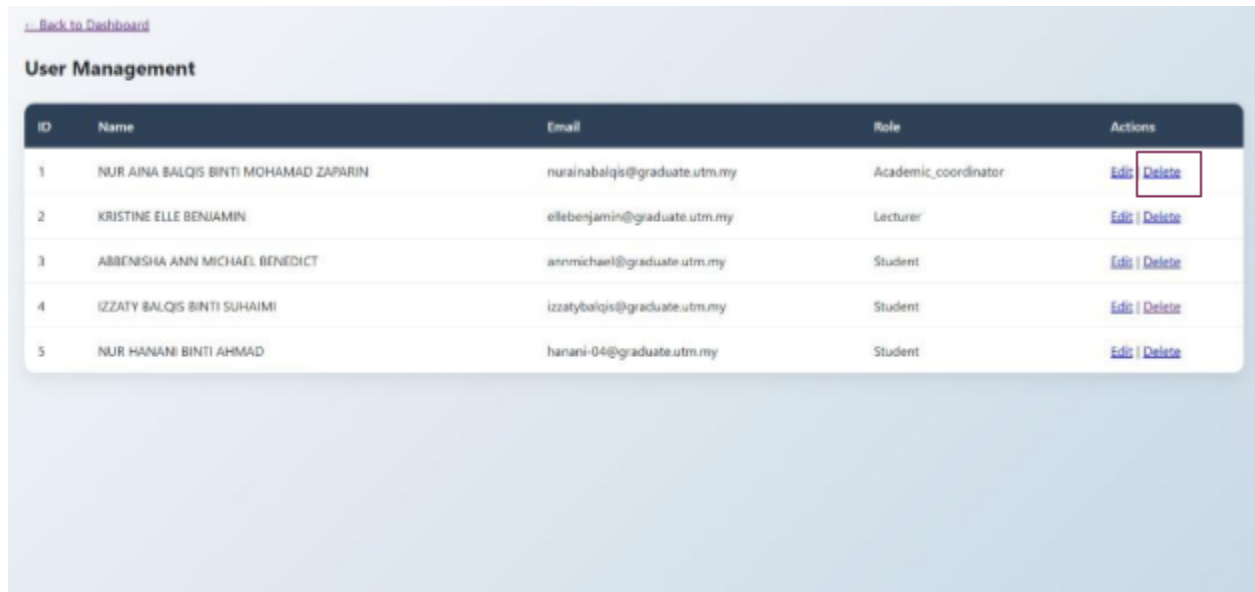
Testing Credentials

No	Email	Password	UserType
1	nurainabalqis@graduate.utm.my	12345678	Academic Coordinator

8.0 CONCLUSION

The development of the Academic Task Managing System has provided a practical, role-based platform for managing academic tasks efficiently. By leveraging core web technologies such as PHP, MySQL, HTML, CSS, and JavaScript, we successfully created a fully functional system with features like task assignment, file uploads, user authentication, course enrollment, and progress tracking.

This project has also been a valuable learning experience for our team. It enhanced our skills in user experience design, database normalization, backend development, frontend interaction, and collaborative version control. We encountered real-world challenges such as form validation, user authentication, secure file handling, and role-based permissions, all of which contributed to a more robust and secure application.

Overall, the system not only meets its goal of simplifying academic workload management but also demonstrates our competence in full-stack web development and secure coding practices. It is a testament to what can be achieved through focused teamwork and well-applied technology.

Looking ahead, the system offers promising opportunities for further development. Future enhancements could include automated email notifications for upcoming deadlines, calendar-based task views, grading features, and exporting academic data in formats like PDF or Excel. With continued refinement, this system has the potential to become a complete academic planner suitable for university-wide deployment.

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