# **Unicom TIC Management System (UMS) - Project Report**

#### UT Number- UT010511

#### 1. Project Overview

- o User Management (Admin, Staff, Lecturer, Student)
- Course and Subject Management
- Exam Scheduling and Timetable
- Mark Entry and Evaluation
- o Role-based Login and Navigation

#### 2. Technologies Used:

- o C# WinForms (.NET Framework)
- SQLite Database
- o MVC Design Pattern
- Visual Studio 2022

#### 3. Challenges and Solutions:

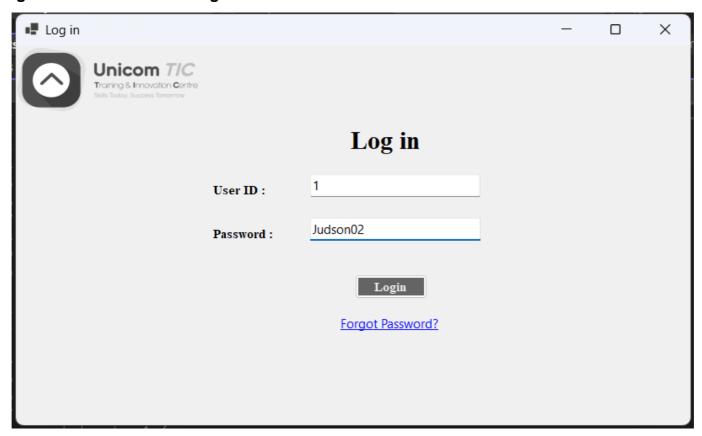
- o Ensuring consistent database schema solved by using a DatabaseInitializer class
- o Managing form-to-controller communication handled via controller methods.
- o Handling combo box dynamic data resolved with DataTable binding.

#### 4. Login Details

User ID: 1

Password: Judson02

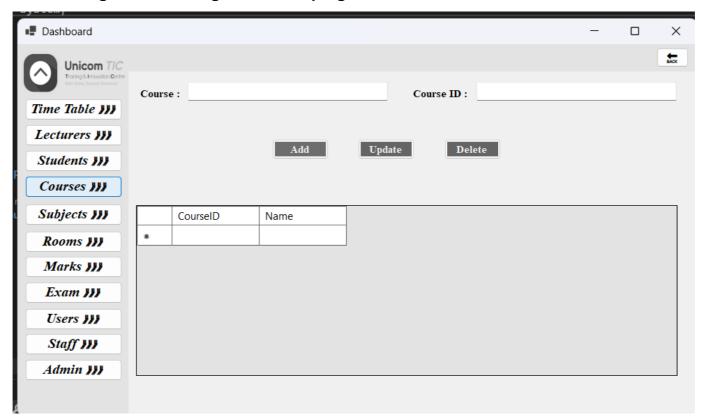
# Login Form - Secure user login with role-based access.



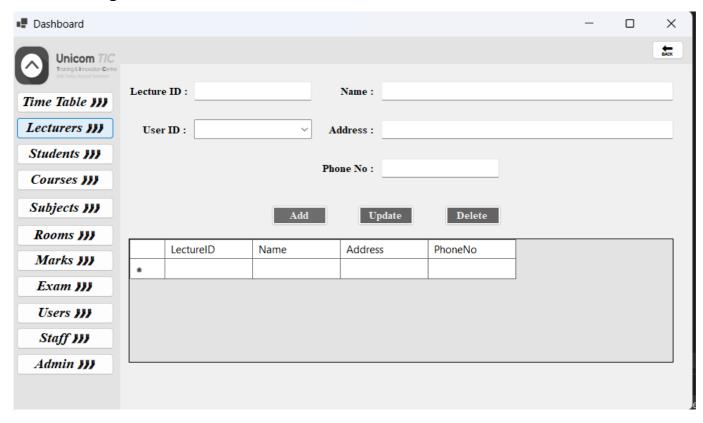
Admin Management - Add, update, delete admin users.



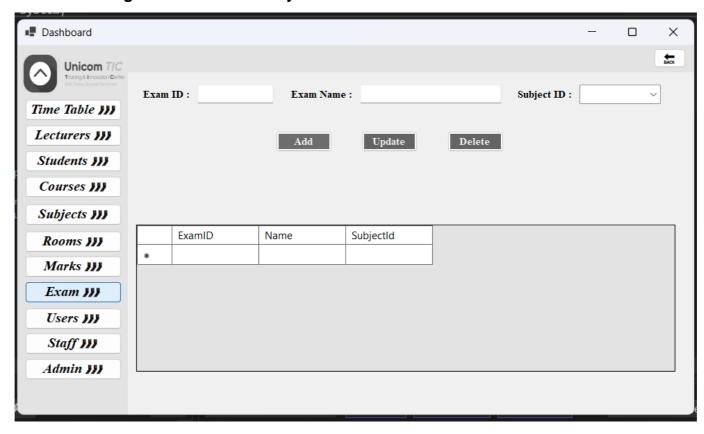
### **Course Management - Manage academic programs.**



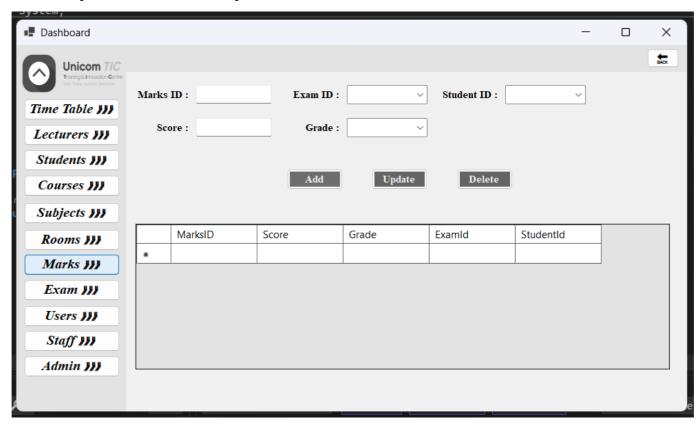
### **Lecturer Management - Track lecturer details.**



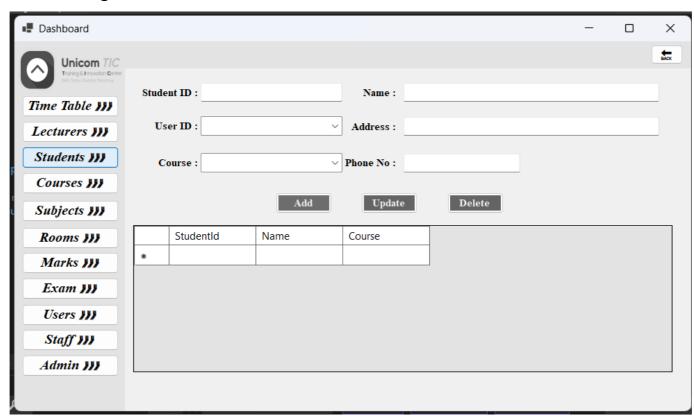
### Exam Scheduling - Link exams to subjects.



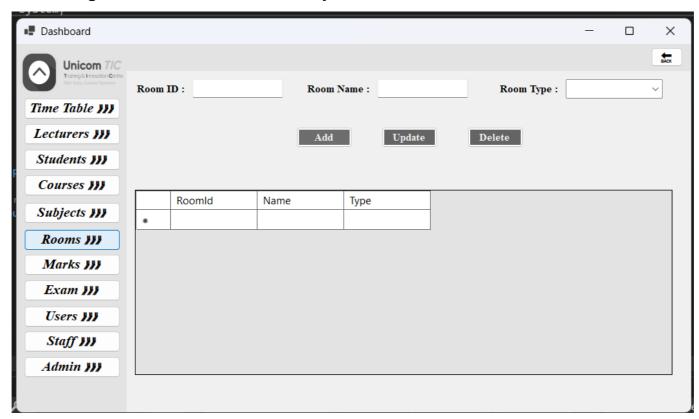
### Marks Entry - Grade students by exam.



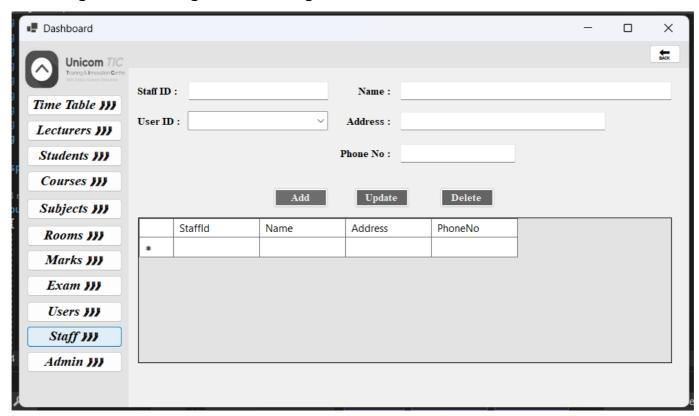
### **Student Management - Handle student records.**



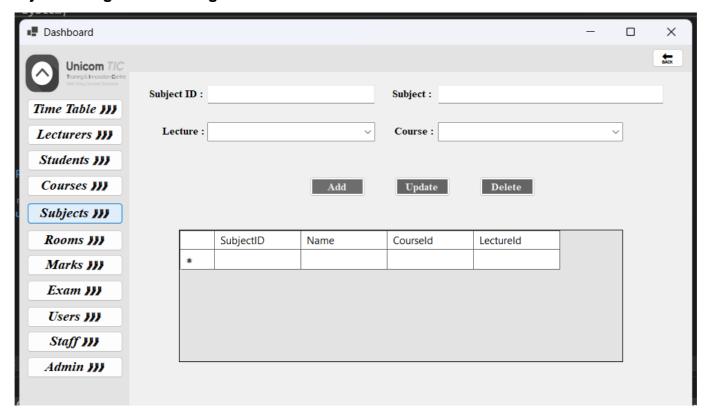
# Room Management - Track room availability.



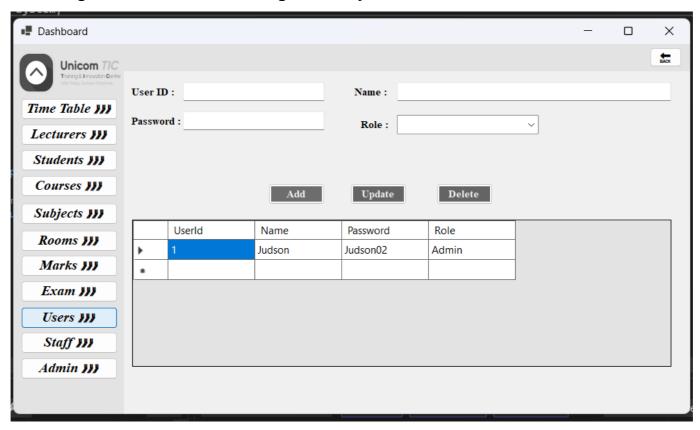
### **Staff Management - Manage non-teaching staff.**



### **Subject Management - Assign lecturers and courses.**



User Management - Create and manage users by role.



# Timetable Scheduling - Allocate subjects, rooms, and time slots.

