

Unicom TIC Management System (UMS) - Project Report

UT Number- UT010511

1. Project Overview

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

2. Technologies Used:

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

3. Challenges and Solutions:

- Ensuring consistent database schema - solved by using a DatabaseInitializer class.
- Managing form-to-controller communication - handled via controller methods.
- 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.

Log in



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Log in


User ID :

Password :

Login

[Forgot Password?](#)

Admin Management - Add, update, delete admin users.



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BACK

Admin ID :

Name :

User ID :

Add

Update

Delete

	AdminId	Name	UserId	UserName	Role
*					

Time Table >>>

Lecturers >>>

Students >>>

Courses >>>

Subjects >>>

Rooms >>>

Marks >>>

Exam >>>

Users >>>

Staff >>>

Admin >>>

Course Management - Manage academic programs.

Dashboard

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Time Table

Lecturers

Students

Courses

Subjects

Rooms

Marks

Exam

Users

Staff

Admin

Course :

Course ID :

Add

Update

Delete

	CourseID	Name
*		

Lecturer Management - Track lecturer details.

Dashboard

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Time Table

Lecturers

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Courses

Subjects

Rooms

Marks

Exam

Users

Staff

Admin

Lecture ID

Name

User ID

Address

Phone No

Add

Update

Delete

	LectureID	Name	Address	PhoneNo
*				

Exam Scheduling - Link exams to subjects.

Dashboard

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Time Table

Lecturers

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Courses

Subjects

Rooms

Marks

Exam

Users

Staff

Admin

Exam ID :

Exam Name :

Subject ID :

Add

Update

Delete

	ExamID	Name	SubjectId
*			

BACK

Marks Entry - Grade students by exam.

Dashboard

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Rooms

Marks

Exam

Users

Staff

Admin

Marks ID :

Exam ID :

Student ID :

Score :

Grade :

Add

Update

Delete

	MarksID	Score	Grade	ExamId	StudentId
*					

Student Management - Handle student records.

Dashboard

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Marks

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Users

Staff

Admin

Student ID

Name

User ID

Address

Course

Phone No

Add

Update

Delete

	StudentId	Name	Course
*			

Room Management - Track room availability.

Dashboard

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Exam

Users

Staff

Admin

Room ID :

Room Name :

Room Type :

Add

Update

Delete

	RoomId	Name	Type
*			

Staff Management - Manage non-teaching staff.

Dashboard

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Time Table

Lecturers

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Courses

Subjects

Rooms

Marks

Exam

Users

Staff

Admin

Staff ID :

Name :

User ID :

Address :

Phone No :

Add

Update

Delete

	StaffId	Name	Address	PhoneNo
*				

Subject Management - Assign lecturers and courses.

Dashboard

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Subjects

Rooms

Marks

Exam

Users

Staff

Admin

Subject ID :

Subject :

Lecture :

Course :

Add

Update

Delete

	SubjectID	Name	Courseld	Lectureld
*				

User Management - Create and manage users by role.

Dashboard

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Time Table

Lecturers

Students

Courses

Subjects

Rooms

Marks

Exam

Users

Staff

Admin

User ID :
Name :
Password :
Role :

Add

Update

Delete

	UserId	Name	Password	Role
▶	1	Judson	Judson02	Admin
*				

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

Dashboard

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Time Table >>>

Lecturers >>>

Students >>>

Courses >>>

Subjects >>>

Rooms >>>

Marks >>>

Exam >>>

Users >>>

Staff >>>

Admin >>>

BACK

Date : 24 June 2025 ▾Time Slot : ▾Subject ID : ▾

ID : ▾Room ID : ▾Lecture ID : ▾

Add

Update

Delete

	TimeTableID	SubjectName	RoomName	Date	TimeSlot
*					