**Project Report – Unicomtic Management System**

**1. Project Overview (Point-Wise)**

**Project Name:** Unicomtic Management System  
**Platform:** C# Windows Forms with SQLite  
**GitHub Link:** https://github.com/sriraj400/Unicomtic-manegment-system

**✅ Key Features Implemented:**

* Role-based login system (Student, Staff, Lecturer)
* Admin creates and saves timetable; students can view
* Add, update, delete, and view student records
* Staff and Lecturer management with image display
* Feedback submission by students
* ComboBox binding to course/subject using controllers
* Dashboard views personalized based on role and username

**💻 Technologies Used:**

* **Frontend:** Windows Forms (C#)
* **Backend:** SQLite Database
* **Programming Language:** C#
* **Libraries:** System.Data.SQLite, System.Windows.Forms, System.Drawing

**⚠️ Challenges Faced & Solutions:**

* **Dynamic Role Navigation:** Redirecting different users to specific dashboards. Solved by passing the username and role at login and handling UI views accordingly.
* **SQLite Image Handling:** Storing and retrieving images for users using BLOB format and rendering them in PictureBoxes.
* **Timetable Data Filtering:** Used filtered queries and DataGridView controls to show timetable data only relevant to the logged-in student.
* **ComboBox Data Binding:** Implemented subject/course loading into dropdowns using SubjectController and mapping SubjectId properly.

**2. Code Samples (Screenshots)**

*Note: Attach up to 6 screenshots in the final Word file.*

1. **Login Logic (btnloginu\_Click):** Validates username, password, role; redirects to respective dashboard.
2. **StudentController.cs:** Code for adding, updating, and fetching student records.
3. **Timetable Form Logic:** Admin-side code for inserting timetable data; student-side for viewing.
4. **FeedbackController.cs:** Logic to insert student feedback into database.
5. **Dashboard Load Event:** Shows logged-in user data (textboxes and PictureBox).
6. **Course ComboBox Binding:** Populates dropdown from subject table in the database.

*Each screenshot should have a brief caption describing its purpose.*