

## Windows Forms Application – Project Report

**Project Title:** School Management System

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### Introduction

This project is a basic Windows Forms Application created using C# and Visual Studio. It is designed to perform simple tasks like [adding records, saving data, displaying information, etc.].

### Tools & Technologies Used

### Description

Tool Visual Studio

IDE used to develop the project

C#

Programming Language

.NET Framework

Platform for building the app

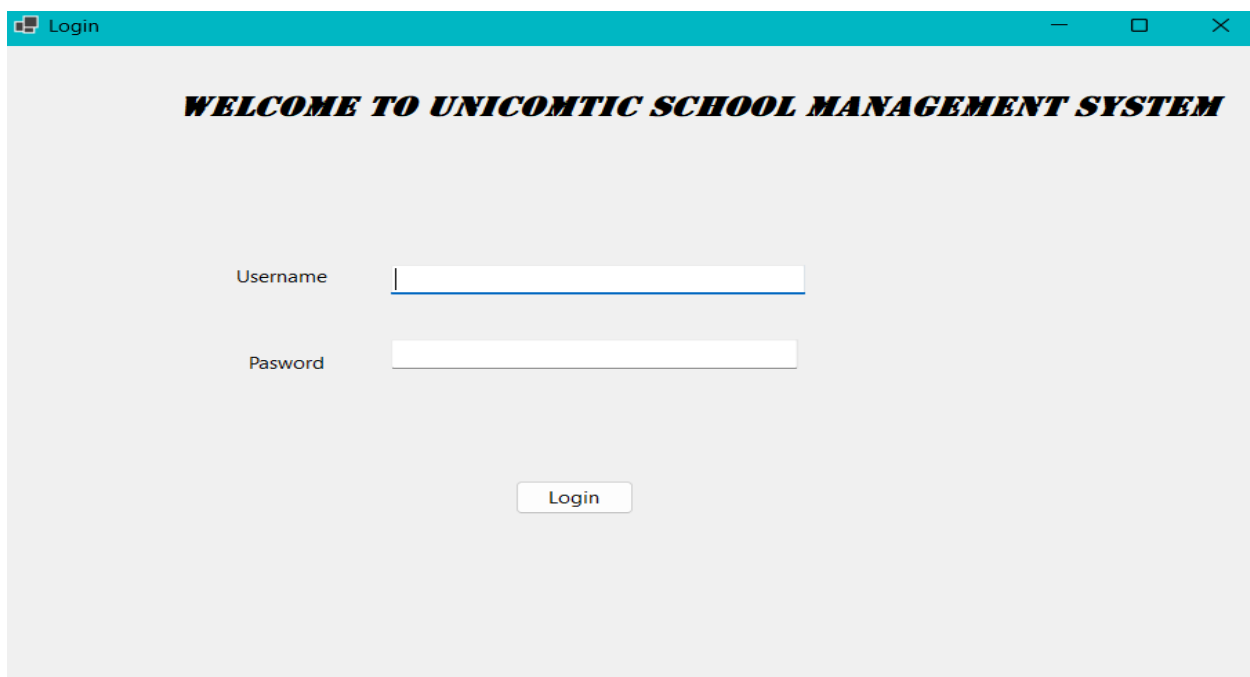
Windows Forms

For designing the user interface

### Screenshots

#### Login Form

**Hard-coded value (U. Name, Password)**



The screenshot shows a Windows Forms application window titled "Login". The window has a light gray background and a teal title bar. At the top, centered, is the text ***WELCOME TO UNICOMTIC SCHOOL MANAGEMENT SYSTEM***. Below this, there are two input fields: "Username" and "Pasword" (misspelled). The "Username" field is a white rectangle with a blue border, and the "Pasword" field is a white rectangle with a gray border. Below these fields is a "Login" button, which is a white rectangle with a gray border and the text "Login" in the center.

## Course Form

Courseform

Course Name

Add

Edit

Delete

	Course Name

## Student Form

Studentform

Student Name

Address

Age

Gender

Male

ADD

Edit

Delete

	StudentId	Name	Age	Gender

## Exam Form

The screenshot shows a window titled "Exam" with a teal header bar. Inside, there is a form with two input fields: "Exam Name" (a text box) and "Course" (a dropdown menu). Below these fields are three buttons: "Add", "Edit", and "delete". At the bottom, there is a table with three columns: "ExamId", "ExamName", and "CourseId". The table body is currently empty and has a grey background.

ExamId	ExamName	CourseId
--------	----------	----------

## Room Form

The screenshot shows a window titled "Roomform" with a teal header bar. Inside, there is a form with two input fields: "Room Name" (a text box) and "Room Type" (a text box). Below these fields are three buttons: "ADD", "Edit", and "Delete". At the bottom, there is a table with three columns: "Roomid", "Roomname", and "Roomtype". The table body is currently empty and has a grey background.

Roomid	Roomname	Roomtype
--------	----------	----------

## Marks Form

Markform

Student Id

Exam

Score

Add

Edit

Delete

## Lecture Form

Lectureform

Lecture Name

Adress

Age

Add

Edit

Delete

	LectureID	Name	Age

## User Form

Username

Password

Role

	Userld	UserName	Password	Role
▶	1	Admin	Admin123	Adm

## Codes Samples

1 reference | Saif ahmed, 3 days ago | 2 authors, 2 changes

```
public void AddStudent(Student student)
{
    using (var conn = datacon.GetConnection())
    {
        var cmd = conn.CreateCommand();
        cmd.CommandText = @"INSERT INTO Students (Name, Age, Address, Gender)
                            VALUES (@name, @age, @address, @gender)";
        cmd.Parameters.AddWithValue("@name", student.Name);
        cmd.Parameters.AddWithValue("@age", student.Age);
        cmd.Parameters.AddWithValue("@address", student.Address);
        cmd.Parameters.AddWithValue("@gender", student.Gender);
        cmd.ExecuteNonQuery();
    }
}
```

```

public void UpdateStudent(Student student)
{
    using (var conn = datacon.GetConnection())
    {
        var cmd = conn.CreateCommand();
        cmd.CommandText = @"UPDATE Students SET
                            Name = @name,
                            Age = @age,
                            Address = @address,
                            Gender = @gender
                            WHERE StudentID = @id";
        cmd.Parameters.AddWithValue("@name", student.Name);
        cmd.Parameters.AddWithValue("@age", student.Age);
        cmd.Parameters.AddWithValue("@address", student.Address);
        cmd.Parameters.AddWithValue("@gender", student.Gender);
        cmd.Parameters.AddWithValue("@id", student.StudentId);
        cmd.ExecuteNonQuery();
    }
}

```

```

public List<Student> GetAllStudents()
{
    List<Student> students = new List<Student>();

    using (var conn = datacon.GetConnection())
    {
        var cmd = conn.CreateCommand();
        cmd.CommandText = "SELECT * FROM Students";
        using (var reader = cmd.ExecuteReader())
        {
            while (reader.Read())
            {
                students.Add(new Student
                {
                    StudentId = reader["StudentID"] != DBNull.Value ? Convert.ToInt32(reader["StudentID"]) : 0,
                    Name = reader["Name"].ToString(),
                    Age = Convert.ToInt32(reader["Age"]),
                    Address = reader["Address"].ToString(),
                    Gender = reader["Gender"].ToString()
                });
            }
        }
    }
}

```

1 reference | Saif ahmed, 1 day ago | 1 author, 2 changes

```
private void button1_Click(object sender, EventArgs e)
{
    string username = txtname.Text.Trim();
    string password = txtpassword.Text.Trim();

    if (string.IsNullOrEmpty(username) || string.IsNullOrEmpty(password))
    {
        MessageBox.Show("Please enter both username and password.");
        return;
    }

    User user = loginController.Authenticate(username, password);

    if (user != null)
    {
        //MessageBox.Show($"Welcome {user.UserName}!", "Login Successful", MessageBoxButtons.OK, MessageBoxIcon.Information);

        // Hide this form and show the main form
        this.Hide();
        MainForm MainForm = new MainForm(); // or pass user info if needed
        MainForm.Show();
    }
    else
    {

```

private void btnexams\_Click(object sender, EventArgs e)

```
{

```

```
    Exam exam = new Exam();
    exam.Show();
}
```

This method was edited by 1 author in 3 unique commits.  
(Last 1000 changes in the past 12 months) (Alt+B)

1 reference | Saif ahmed, 5 hours ago | 1 author, 3 changes

private void btnlogout\_Click(object sender, EventArgs e)

```
{

```

```
    DialogResult result = MessageBox.Show("Are you sure you want to log out?", "Confirm Logout", MessageBoxButtons.YesNo, MessageBoxIcon.Information);

    if (result == DialogResult.Yes)
    {
        this.Close();
        Login loginForm = new Login();
        loginForm.Show();
    }
}
```

1 reference | Saif ahmed, 5 hours ago | 1 author, 2 changes

1 reference | Saif ahmed, 3 days ago | 1 author, 1 change

private void LoadGenderOptions()

```
{

```

```
    cmbgender.Items.Clear();
    cmbgender.Items.Add("Male");
    cmbgender.Items.Add("Female");
    cmbgender.Items.Add("Other");
    cmbgender.SelectedIndex = 0;
}
```

4 references | Saif ahmed, 3 days ago | 1 author, 1 change

private void LoadStudents()

```
{

```

```
    dgvstudent.DataSource = controller.GetAllStudents();
}
```

1 reference | Saif ahmed, 3 days ago | 1 author, 1 change

private void btnadd\_Click(object sender, EventArgs e)

```
{

```

```
    Student student = new Student
    {
        Name = txtstudentname.Text,
        Address = txtaddress.Text,
        Age = int.TryParse(txtage.Text, out int age) ? age : 0,
        Gender = cmbgender.SelectedItem.ToString()
    };
}
```