

SCHOOL MANAGEMENT SYSTEM - PROJECT REPORT

Title:

School Management System using C# WinForms and SQLite

Abstract:

This project is a desktop-based School Management System developed using C# with the WinForms framework and SQLite as the backend database. The system helps to manage various modules of a school such as Students, Teachers, Subjects, Courses, Classes, and Marks. The primary goal is to create an efficient and user-friendly interface for school administrative tasks.

Objective:

- To create a centralized system to manage school data efficiently
- To automate tasks such as adding, updating, and deleting records
- To improve the accessibility and accuracy of student and staff data
- To provide a simple UI for non-technical staff

Modules Implemented:

- Student Module: Add, update, delete, and view student records
- Class Module: Manage Class Names and Sections
- Subject Module: Add new subjects
- Teacher Module: Manage teacher information
- Course Module: Create and manage school courses
- Marks Module: Enter and manage student marks
- (Optional Future Modules): Attendance, Timetable, Exam Management

Tools & Technologies Used:

- Frontend: C# (.NET WinForms)
- Backend: SQLite Database
- IDE: Visual Studio
- Design Pattern: MVC (Model-View-Controller)

Database Schema:

- Student(StudentId, Name, ClassId, Gender, Phone)
- Class(ClassId, ClassName, Section)
- Subject(SubjectId, SubjectName)
- Teacher(TeacherId, Name, SubjectId)
- Course(CourseId, CourseName)
- Marks(MarkId, StudentId, SubjectId, Marks)

Screenshots:



...BoardForm.cs



```
1  using SchoolManagementSystem.Models;
2  using SchoolManagementSystem.Views;
   // Make sure to include this
3  using System;
4  using System.Windows.Forms;
5
6  namespace SchoolManagementSystem
7  {
8      public partial class DashboardForm
9      : Form
10     {
11         public DashboardForm()
12         {
13             InitializeComponent();
14         }
15
16         private void btnStudent_Click(
17             object sender, EventArgs e)
18         {
19             // Open Student Form
20             StudentForm studentForm =
```



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