

# School Management System - Documentation

## 1. Project Overview

Project Name: School Management System

Purpose: To digitalize and simplify the daily administrative and academic processes of a school such as managing students, teachers, classes, fees, results, and attendance.

## 2. Tech Stack

Frontend: HTML, CSS, Bootstrap, JavaScript, Razor (for .NET)

Backend: ASP.NET Core MVC / PHP / Django

Database: SQL Server / MySQL

Others: jQuery, AJAX, Entity Framework, Identity/Auth

## 3. Modules / Features

Admin Panel:

- Add/Edit/Delete Students, Teachers
- Assign Teachers to Classes
- Create Subjects and Timetables
- Manage Attendance
- View Reports (attendance, performance)
- Manage Fees

Student Panel:

- View Profile
- View Attendance
- Download Results
- Pay Fees
- View Timetable

Teacher Panel:

- Mark Attendance
- Enter Marks
- View Assigned Classes
- Upload Homework

## 4. Project Structure

```
/SchoolManagementSystem
```

```
|-- /Controllers
```

```
|  |-- AdminController.cs
|  |-- StudentController.cs
|  |-- TeacherController.cs
```

```
|-- /Models
```

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```
| |-- Student.cs
| |-- Teacher.cs
| |-- Class.cs
| |-- Subject.cs
| |-- Attendance.cs
| |-- Fee.cs
|-- /Views
| |-- /Admin
| |-- /Student
| |-- /Teacher
|-- /wwwroot (CSS, JS, Images)
|-- appsettings.json
|-- Startup.cs
```

## 5. Installation Guide

Prerequisites:

- Visual Studio / VS Code
- SQL Server / MySQL
- .NET Core SDK / PHP / Python

Setup:

1. Clone or download the repo
2. Open project in Visual Studio
3. Configure appsettings.json with your DB connection
4. Run migrations: dotnet ef database update
5. Run the project: dotnet run

## 6. Authentication Roles

Admin: Full control over system

Teacher: Class management, mark attendance, enter marks

Student: View info, pay fees, download results

## 7. Database Tables

Students: Stores student profile info

Teachers: Stores teacher info

Classes: Class-wise data

Subjects: List of subjects

Attendance: Daily student attendance

Fees: Fee status records

Results: Marks per subject per student

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## 8. Sample API Endpoints

GET /api/students - Get all students  
POST /api/student/create - Add new student  
GET /api/attendance/{id} - Get attendance by class id  
POST /api/fee/pay - Fee payment logic

## 9. Testing

Unit tested controllers with xUnit/NUnit

Manual testing for:

- Student registration
- Attendance marking
- Fee payments

## 10. Screenshots

Add some UI screenshots like:

- Admin dashboard
- Student profile
- Fee payment page
- Attendance marking screen

## 11. FAQ

Q: Default login credentials?

A: admin@school.com / Password123

Q: How to reset password?

A: Click 'Forgot Password' on login screen.

## 12. Contribution Guide

1. Fork the repo
2. Create feature branches
3. Raise pull requests
4. Follow coding guidelines from CONTRIBUTING.md