



**Sri Lanka Institute of Advanced Technological Education
(SLIATE)**

School Management System

Project Proposal

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Abstract

The school management system, Sri Lanka. It facilitates for teachers and staffs are working there. Currently, the details about teachers and staffs are maintained using traditional methods (By using stationary materials). As a result of traditional practices, the client(principal) faced information loss due to misplacing of documents. The school management system will address the issues arise due to manual maintains of data by automating the process.

By interviewing the client we verify the primary need of the School Management System as easy access and maintenance of data in an efficient manner. By further analyzing the available infrastructure we decided to develop a standalone desktop application to address the above-mentioned requirements. In order to, implement the system we use C# for programming and Microsoft SQL Server as the database. The system will ensure the availability and security of the information belong to the school.

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Introduction

The school management system is developing for school management system, Sri Lanka. It is established in 1990. According to their records in 2018, there are a total of 30 teachers enrolled for different works(subject) conduct by the school and total of 30 staffs enrolled for different works conduct by the school .The school provides education for teachers from grade one to advanced level. There are about 30 teachers working in the school.

Since from the establishment the details of teachers and staffs are recorded and maintained manually. As a result of the traditional document maintaining methods, the school has to spend a lot of money on stationery materials and also it depletes valuable time and effort of school management.

In order to address the above-mentioned issues, we decided to develop a C# desktop application which handles Admin login, Teacher management, staff management and Attendance management.

The application will consist of user management facility which ensures the level of access to the School Management System.

With the automation of functionalities of the school, we are expecting to fulfil user requirements and thereby increase the productivity and efficiency of the school's operations which in turn to success their industry goals.

Problem Specification

Due to the maintenance of teachers details, staffs details and subject details in traditional manual methods the owner of the school has to face greater difficulties when searching for details, retrieving details and updating details.

The retrieval, update and search for current existing teachers details, staffs details and subject details also cumbersome with manual methods. Also, deletion of unwanted information is unachievable with the manual system.

The client also needs to maintain access level control with the manual system which is unable to do so. This may lead to an outflow of confidential details of the school. Which may affect to the school in its long run.

Solution Outline

By analyzing the above issue our team decided to make a standalone desktop application which facilitates teacher management, staff management, subject management and attendance management. The application consists of user-friendly interfaces.

With the desktop application school principal able to calculate attendance, handle (add, update, delete, retrieve and search) teachers details, subject details and staff detail. With report generation functionality the management will be able to generate the reports as required.

Objectives

This School management system is designed to provide information regarding the school details.

- School management system deals with teacher details, staff details, subject details and report.
- Admin is given all power and authority over the whole system.
- The receptionist can have the access to provide add teacher, staff and subject related details.
- Provide a detailed report, summary report & login history.

Key Benefits

- Implement security to school details by implementing login functionality and providing different access levels.
- Allow easy insert, delete, update and retrieve details relevant to the system.
- Ability to generate reports as required.
- Searching functionality which facilitates obtaining of the required report as necessary.
- Able to maintain reliable teachers and staff attendance system.
- Able to work with a user-friendly interface.
- Able to save a lot of time and effort.

Function In Details

1. Teacher Management

This functionality will allow the user to enter teacher details to the database and retrieve data, update data and delete data. The user of the system can search for the details of a particular teacher. Also, the user can generate reports about teacher. The system will facilitate to store an image of a teacher.

2. Staff Management

This functionality will allow the user to enter staff details to the database and retrieve data, update data and delete data. The user of the system can search for the details of a particular teacher. Also, the user can generate reports about staff. The system will facilitate to store an image of a staff.

3. Subject Management

4. Attendance Management

Tools and Technologies

The school management system designed for the school is a standalone desktop application. It codes using C# and the interface is designed by using windows forms. We are planning to use MS SQL Server as the database and report generation by using report view function in the windows form.

Software Requirements:

OS: Windows 7, 8 or 10

Framework: Microsoft Visual Studio, report viewer

Database: Microsoft SQL Server

IDE: Visual Studio

Documents: MS Office

Hardware Requirements:

PC (with 1Ghz or Higher, 1GB ram, 10 GB of free space)

Printer