SRS Document for Attendance Management System

1. INTRODUCTION

1.1 Purpose

The purpose of developing attendance management system is to computerized the tradition way of taking attendance. Another purpose for developing this software is to generate the report automatically at the end of the session or in the between of the session. This document detailed functional and non-functional requirements for attendance maintenance system. The purpose of this document is that the requirements mentioned in it should be utilized by software developer to implement the system.
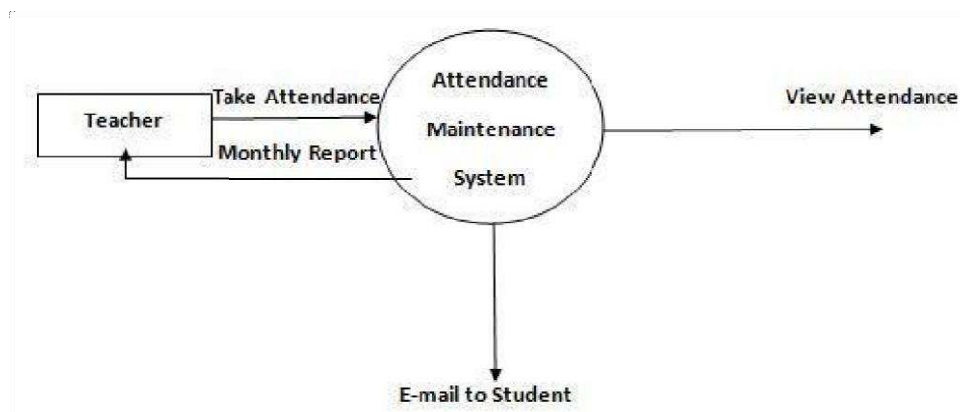
1.2 Scope

This system allows the teacher to maintain attendance record of the classes to which it is teaching. With the help of this system Teacher should be in a position to send e-mail to the students who remain absent for the class. The system provides a cumulative report at every month end for the corresponding class.

1.3 Overview

This system provides an easy solution to the teacher to keep track of student attendance, and stats.

2. **General Description:**

This attendance maintenance system replaces the traditional, manual attendance system by which a lot of paper work will be reduced. The teacher should able to view photograph of student along with his attendance in his laptop. This is the primary feature of this system. Another feature is that Teacher can be allowed to edit particular record at desired time. The system should produce monthly attendance report. And there should be facility to send an e-mail/warning to the student remaining absent in the class. Every Teacher should have laptop with wireless internet connection. A teacher may teach to different classes and a separate record for the corresponding classes should be maintained.

2.1 User manual

The system should provide Help option in which how to operate the system should be explained. Also hard copy of this document should be given to the user in a booklet form.

3. FUNCTIONAL REQUIREMENTS

The identity of student is verified and then marked present at particular date and time. The system should display student photograph along with their names for the corresponding class. The student may be marked present or absent students. A statistical report should display individuals report or a cumulative report whenever required.

3.1 Description

The identity of student is verified and then marked present at particular date and time. The system should display student photograph along with their names for that corresponding class. The student may be marked present or absent depending upon his display individuals report or a cumulative report whenever requirement.

3.2 Technical Issues

The system should be implemented in VC++.

4. Interface Requirements

4.1 GUI

GUI 1: Main menu should provide option such as File, Edit, Report, help.

GUI 2: In File menu one can create a new record file or can open an existing record file..

GUI 3: The display of record

GUI 4: Report option should display statistical report. It may be particular student or for the whole class.

GUI 5: Help option should describe functionality of the system. It should be written in simple HTML.

4.2 Hardware Interface

Hardware Interface 1: The system should be embedded in the laptops.

Hardware Interface 2: The laptop should use wireless Ethernet Card to send departmental database server.

4.3 Software Interface:

Software Interface 1 : Attendance maintenance system.

Software Interface 2 : The attendance database should be transmitted to departmental database server.

Software Interface 3 : E-mail message generator which generates standard message of absence. Software Interface 4 : Report generators.

5. <u>Performance Requirements</u>

- This system should work concurrently on multiple processors between college hours. The system should support 50 users.

- The email should be send within one hour after class gets over.
- The system should support taking attendance of maximum 10 students per class.

6. <u>Design Constraints</u>

The system should be designed within 6 months.

7.Other Non Functional Attributes

7.1 Security

The teacher should provide password to log on to the system. He/she should be able to see the record of his/her class.

7.2 Reliability

Due to wireless connectivity, reliability cannot be guaranteed.

7.3 Availability

The system should be available during college hours.

7.4 Maintainability

There should be a facility to add or delete or update teachers and students for each semester **7.5**

7.5 Reusability

There should be a facility to add or delete or update teachers and students for each semester.

8. Operational Scenarios:

There will be student database, teacher database. The student database will contain students name, class, attendance, email address, address, and phone number. The teacher database will contain teachers name, class taught, e-mail address, phone number.