DVR & Dr HS MIC College of Technology

Department of Information Technology

Abstract

STUDENT ATTENDANCE & INFORMATION MANAGEMENT

Batch no: **I-9**

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Abstract

Student attendance & Information Management System provides a simple interface for maintenance of student information. It can be used by educational institutes or colleges to maintain the records of students easily. The creation and management of accurate, up-to-date information regarding a student’s academic career is critically important in the university as well as colleges. Student information system deals with all kind of student details, academic related reports, attendance percentage and other resource related details too. It tracks all the details of a student from the day one to the end like attendance monthly and also semester wise and all these will be available through a secure, online interface embedded in the college’s website. The design and implementation of a comprehensive student information system and user interface is to replace the current paper records Student attendance and information management is deployed and runs on AWS (Amazon web services) cloud.

**Name of the guide: MRS B.V.N. Praveena**

**Signature of the guide:**

**Signature of project coordinator:**

Software Requirement Specification

INTRODUCTION:

Purpose:

The purpose of developing student attendance management system is to computerise the traditional way of taking attendance. Another purpose for developing this software is to generate the report automatically at the end of semester or in the between of the semester. The purpose of this document is that the requirements mentioned in it should be utilized by software developer to implement the system

PROJECT SCOPE:

The Student attendance Management System will allow the teacher in-charge to maintain a record of attendance of students in their respective classes from a PC. Also, the system will permit the teacher in charge to maintain all the essential details regarding a particular student. Furthermore, the program provides different modes to edit attendance, view statistics, and take notes on elements pertaining to attendance. The goal is to provide a professor with an easy, portable solution to attendance record maintenance and attendance statistics.

**REQUIREMENT SPECIFICATIONS**:

To build this we require html and python language as html is required to design a web page and python is to calculate and generate the report of student attendance and also to retrieve the information from database like if you want to know the information about a particular student you have to enter student roll number in dialog box then the related information is retrieved from the database

* HTML: HTML stands for Hyper Text Markup Language.
* HTML is the standard markup language for creating Web pages
* HTML describes the structure of a Web pages
* HTML consist of a series of elements
* HTML elements tell the browser how to display the content
* HTML elements label pieces of content such as “this is a heading”, “this is a link” ,etc

**CSS:**

* CSS is the language we use to style a web page
* CSS stands for Cascading Style Sheets
* CSS describes how HTML elements are to be displayed on screen ,paper ,or in other media
* CSS saves a lot of work .It can control the layout of multiple web pages all at once
* External style sheets are stored in CSS files

**Python:**

Python is an interpreted high-level general-purpose programming language. Its design philosophy emphasizes code readability with its use of significant indentation. Its language constructs as well as its object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects.

Python is dynamically-typed and garbage-collected. It supports multiple programming paradigms, including structured, object-oriented and functional programming. It is often described as a "batteries included" language due to its comprehensive standard library. Python can be used on a server to create web applications.

FUNCTIONAL REQUIREMENTS

The identity of student is verified and then marked present at particular date and time. The system should display student attendance 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. The identity of student is verified and then mark

## 3.3 Software Interfaces:

**SI-1:**  Attendance Management System

**SI-1.1:** This software will transmit the attendance of a class to a database on a machine

via Internet.

**SI-1.2:** The user will be allowed to modify attendance records at any time.

**SI-1.3:** If the user forgets to transmit the information, the system will automatically send it

for them at the end of the class.

**SI-2**: Database

The Attendance Management System will communicate with the database to perform

the following options.

**SI-2.1:** To allow a user to enter attendance.

**SI-2.2:** To allow a user to modify attendance.

**SI-2.3**: To allow a user to query a system to gain statistics concerning individual and class

attendance.

3.2 Hardware Interfaces

**Server Sid**e:

**H1**: Operating System: Windows 7/xp, Windows ME

**H2:** Processor: Pentium 3.0 GHz or higher

**H3:** RAM: 1 GB or more

**H4:** Hard Drive: 10 GB or more Client side

**H5:** Operating System: Windows 7 or above, MAC or UNIX.

**H6**: Processor: Pentium III or 2.0 GHz or higher.

**H7:** RAM: 1 GB or more3.3

**Performance requirements**

* The website should be able to handle large amounts of data.
* The performance of the website should be fast and accurate.

**Safety Requirements**

* The server may fail at any certain time due to any technical reason .So, it is required to take backup of the lost data.

**Availability**

* The website should be available 24/7

**Usability**

* User should learn how to use the website

**Reliability**

* The probability of failure free software operation for a specific period of time in a specified environment

**Accuracy**

* Website should provide accurate results for the user requirements

**Maintainability**

The ability to maintain, modify information and update fix problems of the website