

Attendance Management System

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Introduction

The objective of the project revolves around the ***Attendance Management System***, which is a software developed for keeping a record of attendance data of students in college. The staff in the college taking control of the subjects shall be provided with the responsibility of the student's attendance. The staff shall be provided with a username and a password for accessing the system based on the subjects considered. Based on this, an accurate report comprising student attendance is typically generated here on a weekly and monthly basis. The proposed system shall also analyze the attendance eligibility criteria of the students. Thus, the current objective is to design and develop the system which would reduce the paper work and enhance convience among the users.

Purpose and Objective

The motivation behind the plan stage is to build up an away from of what the Application developer need individuals to pick up from his/her task. As We the engineer chip away at the task, the test for each plan choice ought to be "Does this element satisfy a definitive reason for the task?"

A reason articulation influences the plan cycle by clarifying what the Application developer needs the task to do, as opposed to portraying the venture itself [1]

The general Application plan objective is to give an effective, particular plan that will diminish the Application's unpredictability, encourage change and bring about a simple execution. This will be cultivated by planning firmly attachment Application with insignificant coupling [2]

Aim And Objective

The developed system is entirely web-based, responsible, and flexible in nature which can be easily accessed from any electronic devices irrespective of place. The aim to develop the web-based attendance software for the different department focuses on registering the details of student, subject, teachers, respective fields. In case the student is present, the checkbox is clicked and if absent, the absence of checkbox is clicked [2]. The save button on the website confirms to the information and stores it in the database

Overview of the system

AMS (Attendance Management System) consists of modules that ensure appropriate functioning for the new batches. It shall easily perform activities such as entry of new students or faculty, subject updating when required, delivering notice to the employees and workforce. The users are provided with the right to daily attendances which would ensure report generations. There are two ways of taking the states namely the monthly and periodically



Feature hold by the proposed system

The proposed system shall be fulfilling the necessary requirements and mitigate the issue encountered in handling the attendance in institutions:

- The system is user friendly which allows easy data retrieval and can be managed efficiently. The GUI of the system is interactive that makes it convenient for the users to implement the system and use it seamlessly
- It allows easy report generation as the data can be reached easily. Thus, reports can be produced whenever there is any user requirement. Apart from this, early notices can be also provided to the employees and students not being present at their respective places.
- The proposed system also needs less paperwork which saves the manual time and effort to prepare the documents, timetable, reports. The computerized system generates the reports and no data is required to be arranged through paperwork

Tools used to Develop this system

The MS Visual Studio consists of debuggers and tools that makes the environment interactive as well as easy for code Editor, and designer. The VS 2012 has been updated for supporting features that are stated in the .NET model 2.0. There is a new range of features such as intelligence as well as refactoring of codes that are assisted by code editor, better environment for web publish, load testing for checking the performance, and assisting SQL Server 2012 database.

Conclusion

The concerned project revolved around developing attendance management project which shall manage the activities at schools. It has different applications that lie on the same database. Most of the activities such as a transcript, generating report card and framing timetable is done through window applications. Attendance recording by the classroom teacher, view reports, and student status, teachers are done through web applications.

Reference

- [1] J. Chandramohan, R. Nagarajan, M. kumar, T. Dineshkumar, G. Kannan and R. Prakash, "Attendance Monitoring System of Students Based on Biometric and GPS Tracking System", International Journal of Advanced engineering, Management and Science, vol. 3, no. 3, pp. 241-246, 2017.
- [2] H. R, "Attendance Management System", International Journal of Advanced Research in Computer Science, 2016.
- [3] "Five Features to Look for in a Time and Attendance System", Hrtechnologist.com, 2020. [Online]. Available: <https://www.hrtechnologist.com/articles/workforce-scheduling/five-features-to-look-for-in-a-time-and-attendance-system/>. [Accessed: 16-Sep- 2020].