

A Mini Project Report on

Online Attendance Management System

S.E. I.T Engineering.

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CERTIFICATE

This to certify that the **Mini Project report on Online Attendance Management System** has been submitted by **Siddhant Darekar** (20104111), **Kunal Palande** (20104031), **Kaif Khan** (20104128) and **Anmol Ahirwar** (2104131), who are a Bonafide students of A. P. Shah Institute of Technology, Thane, Mumbai, as a partial fulfilment of the requirement for the degree in Information Technology, during the academic year 2021-2022 in the satisfactory manner as per the curriculum laid down by University of Mumbai.

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Chapter 1

Introduction

The main objective of is to automate all functionalities of a college or university. Using this system we can manage all college work like managing Student and Faculty data, issue Books and even download E-book. Using this, we can view or update data and information about students and staff easily. This system also helps in managing the various activity like student admission/registration, faculty

admission/registration and all tasks regarding Library Management.

Using this system, we can register new student and their course details. We can also add new faculty in the system and can check details of these employee easily. Student can also check course detail online from this system. All Users can view the Library, issue books and download E-Books.

Our project can store and manage all data of the various departments of a college like Administration, Staff details, Library details etc. Using this system user can retrieve any information related to student and teacher. College administration can also manage college work easily. The library module is used for the book accessing for students and staffs.

1.1 Purpose:

The purpose of our project is to automate the existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

As described above, can lead to error free, secure, reliable and fast management system. Thus, it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information. The application provides security to the data as only admin or the faculty can modify the data. The target audience are the students, faculty and the administration. Basically, the project describes how to manage for good performance and better services for the clients.

1.2 Objectives:

1. Eliminate duplicate data entry and errors in time and attendance entries.
2. Eliminate paperwork and save time.
3. Automatic calculation of attendance
4. To Increase security.

1.3 Scope

The scope of the project is the system on which the software is installed, i.e. the project is developed as a desktop application, and it will work for a particular institute. But later on the project can be modified to operate it online .

Chapter 2

Problem Definition

Attendance Management System is software developed for daily student attendance in schools, colleges and institutes. It facilitates to access the attendance information of a

particular student in a particular class. This system will also help in evaluating attendance eligibility criteria of a student. By just a click on the mouse, the system will be able to produce the students' attendance report thus reducing the need for manual labour which is prone to human errors and time consuming.

This application is built for automating the processing of attendance. It also enhances the speed of performing attendance task easily.

Chapter 3

3.1 Proposed System:

We resolve all the disadvantages of existing system in our proposed system. Time will be saved with no chance of getting error.

- System needs to store information about new entry of student, hostel, library and faculty.

- System needs to help the internal staff to keep information of Student and find them as per various queries.
- System needs to maintain quantity record.
- System needs to update and delete the record.
- It also needs a security system to prevent data.

3.2 Features and Functionality:

- Creating & Changing records at ease
- Admin Accounts to control the access and maintain security
- Simple Status & Resolutions
- Accuracy in work.
- Easy & fast retrieval of information.
- Well-designed Layout.

Chapter 4

Project Outcome:

- To gain access to the system in a safe way.
- To add, update or delete details of Students and Faculty. User will be able to login & Signup and if the user forget their password then they can change their password too.

- To keep an update on academics related stuff.
- To provide the searching facilities based on various factors. Such as Student Detail, Faculty Detail, etc.
- To manage the Record details for enrolment details, dedicated library and various other academics tools.
- To manage the information of College Database.
- To Edit, add and update the records in an improved manner which results in proper resource management of College data.

Chapter 5

Software Stack:

- Development Eclipse IDE 2021-09 (4.21.0)

Eclipse is an integrated development environment (IDE) used in computer programming. It contains a base workspace and an extensible plug-in system for customizing the

environment. Eclipse is written mostly in Java and its primary use is for developing Java applications. Eclipse software development kit (SDK) is free and open-source software, released under the terms of the Eclipse Public License, although it is incompatible with the GNU General Public License.

- Frontend: Java.

Swing is a GUI widget toolkit for Java. It is part of Oracle's Java Foundation Classes (JFC) – an API for providing a graphical user interface (GUI) for Java programs. Swing was developed to provide a more sophisticated set of GUI components than the earlier Abstract Window Toolkit (AWT). Swing provides a look and feel that emulates the look and feel of several platforms, and also supports a pluggable look and feel that allows applications to have a look and feel unrelated to the underlying platform. It has more powerful and flexible components than AWT. In addition to familiar components such as buttons, check boxes and labels, Swing provides several advanced components such as tabbed panel, scroll panes, trees, tables, and lists.

- Backend: MySQL 8.0.26

MySQL is an Oracle-backed open source relational database management system (RDBMS) based on Structured Query Language (SQL). MySQL runs on virtually all platforms, including Linux, UNIX and Windows. Although it can be used in a wide range of applications, MySQL is most often associated with web applications and online publishing.

5.1 Software Requirements:

- Operating System: - Windows 11.
- Language: - Java 16
- Database:- MySQL Server
- Software Development Kit: - Java JDK 1.8 or above
- Database JDBC Driver : - MySQL / J Connector

Hardware Requirement: -

- Ram:- 200 Mb and above
- Hard Disk: - 20GB
- Processor :- Intel i3 and above / M1 and above

Chapter 6

Input Design and User Interface Design

The input forms are designed using the controls available in .NET framework. Input design is the process of converting the user originated inputs to a computer-based format. A system user interacting through a workstation must be able to tell the system whether to accept the input to produce reports. The collection of input data is considered to be most expensive part of the system design.

Since the input has to be planned in such a manner so as to get relevant information, extreme care is taken to obtain pertinent information. This project first will enter to the input of allocation forms it will be created on student details form and subject entry form, time table form. It will help to calculate subject wise attendance system.

Output design this application "Student Attendance management system" generally refers to the results and information that are generated by the system for many end-users; output is the main reason for developing the system and the basis on which they evaluate the usefulness of the application. The output is designed in such a way that it is attractive, convenient and informative. Forms are designed with various features, which make the console output more pleasing. As the outputs are the most important sources of information to the users, better design should improve the system's relationships with us and also will help in decision making. Form design elaborates the way output is presented and the layout available for capturing information. One of the most important factors of the system is the output it produces. This system refers to the results and information generated. Basically, the output from a computer system is used to communicate the result of processing to the user.

Chapter 7

Project Scheduling Template

Group Member	Time duration	Work to be done
SIDDHANT DAREKAR KUNAL PALANDE KAIF KHAN ANMOL AHIRWAR	4 th week of September	Implementing 1 st module/ functionality (Designing the main page and login page. User can login with security verification and will be able to enter to the main menu)
	1 st week of October	Testing 1 st module (Main menu: This will consist of the main page where user will get the following options: <ul style="list-style-type: none"> • Student Details • Faculty Details
	2 nd week of October	Implementing 2 nd module / Functionality (Designing next page / functionality: Here information of Students, Faculties, i.e. Issue Subject, student details, faculty details etc are shown)
	2 nd week of November	Implementing 3 rd module / Functionality (Designing Final page / functionality: Here we added the final touches to our “Forgot Password” implementation in the login page)

Chapter 8

Conclusion:

The Attendance Management System is developed using VisualBasic.NET fully meets the objectives of the system which it has been developed. The system has reached a steady state where all bugs have been eliminated. The system is operated at a high level of efficiency and all the teachers and user associated with the system understand its advantage. The system solves the problem. It was intended to solve as requirement specification.

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