PARSHVANATH CHARITABLE TRUST'S

A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering

Data Science

Smart Attendance System.

Group members with StudentId

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Project Guide

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1. Introduction

The Smart Attendance System is a Java-based application designed to automate the process of recording and managing student attendance in academic institutions. Traditionally, attendance is taken manually, which can be time-consuming and prone to errors. This system leverages technology to ensure accurate, efficient, and real-time attendance recording, reducing the administrative burden and improving data management.

2. Objectives

- **Real-time data**: Provide instant access to attendance records for students and faculty.
- **Automate attendance tracking**: Replace manual attendance with a smart, automated system.
- **Reduce errors**: Minimize human errors in attendance records.
- **Enhance security**: Ensure the authenticity of attendance data through secure storage and access.
- **Simplify reporting**: Saving time for administrators.

3. Feature

- **User Authentication**: Secure login system for both students and faculty.
- **Real-time Monitoring**: Track attendance as students login.
- **Easy Login**: Simple login system for students.
- **Mark Attendance**: Teachers can easily mark and view attendance with a few clicks.
- **User-friendly Interface**: Simple and easy-to-use interface for everyone.

4. Block Diagram/ Flow diagram

•**User Interface**: Displays the login, attendance form, and reports.

•**Authentication System**: Validates users with ID.

•**Attendance Module**: Records and stores attendance data in the database.

•**Database**: Stores attendance records and user information securely.

•**Report Generation**: Generates attendance reports based on recorded data.

5. Output of Project

STUDENT LOGIN

USERNAME: _____

PASSWORD: _____

[LOGIN] [CLOSE]

ADD FACULTY

FACULTYID: _____

NAME:- _____

BRANCH:- _____

YEAR:- _____

SEMESTER:- _____

SUBJECT:- _____

USERNAME:- _____

PASSWORD:- _____

[BACK] [ADD]

FACULTYID	NAME	BRANCH	YEAR	SEMESTER	SUBJECT	USERNAME	PASSWORD

FACULTY LOGIN

USERNAME: _____

PASSWORD: _____

[LOGIN] [CLOSE]

E ATTENDANCE RECORD

Source View

STUDENT NAME: _____

SUBJECT: _____

TOTAL CLASSES: _____

CLASS ATTENDANCE: _____

studentname	subject	totalclasses	classattendance	Percentage