**ATTENDANCE MANAGEMENT SYSTEM**

**ABSTRACT**

The Attendance Management System is a web-based application designed to streamline the process of recording and managing student attendance. The system allows educators to track attendance data efficiently, providing detailed reports on student attendance over time. This project leverages Python and SQLite to manage student and attendance data, with Flask serving as the web framework for interaction.

The primary objective of this system is to generate attendance reports that are grouped by student name and sorted by attendance date in ascending order. This allows users (educators or administrators) to quickly view each student's attendance history, organized by the dates they were present or absent.

The application offers an intuitive user interface where users can add new students, mark attendance, and generate customized attendance reports. The reports can be accessed via a simple web interface, making it easy for users to monitor attendance trends, evaluate student participation, and ensure accurate record-keeping.

**Softwares Used:**

Python: The core programming language used for developing the backend of the application.

Flask: A lightweight web framework for Python used to handle the application's routes, logic, and rendering HTML templates.

SQLite: A lightweight, server less relational database used to store student and attendance data.

HTML/CSS: Used for designing the user interface and presenting the data in a readable format.

Jinja2: A templating engine used with Flask to dynamically generate HTML pages with the attendance data.

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