

Attendance Monitoring System

Chitti babu Yelugubandi

Title:

Attendance Monitoring System

Aim:

To develop a simple system for managing and monitoring attendance records efficiently.

Objective:

To create a program that enables users to add, view, search, and delete attendance records using a straightforward menu-driven approach.

Abstract:

This project implements a basic **attendance monitoring system** using the C programming language. The program is designed to manage attendance records for students or employees. Each record includes a unique ID, the name of the individual, and their attendance status (present or absent).

The application supports essential functionalities such as adding new records, displaying all existing records, searching for a specific record by ID, and deleting a record by ID. Users interact with the system through a menu, selecting options to perform the desired actions.

The program leverages standard C libraries (stdio.h, stdlib.h, and string.h) to handle input/output, memory management, and string operations. It is lightweight and can handle up to 100 records, making it suitable for small-scale use cases.

Features:

1. **Add Record:** Allows users to add a new attendance record by providing an ID, name, and attendance status (present or absent).
2. **Display Records:** Lists all stored attendance records with details such as ID, name, and status.
3. **Search Record:** Enables users to search for a specific attendance record using the ID.
4. **Delete Record:** Provides the option to remove an attendance record based on the ID.

Principle:

This system operates on the concept of maintaining structured records in a simple array and provides basic operations to interact with the stored data, ensuring ease of use and efficiency.

Methodology:

- **Data Storage:** Uses an array of structures to store attendance records.
- **Operations:** Implements functions for adding, displaying, searching, and deleting records.
- **User Interaction:** Presents a menu-driven interface for user convenience.

Code Modules:

1. Main Module:

- Provides a menu with options for adding, displaying, searching, and deleting records.

2. Function Modules:

- `addRecord()`: Adds a new attendance record.
- `displayRecords()`: Displays all stored records.
- `searchRecord()`: Searches for a specific record by ID.
- `deleteRecord()`: Deletes a record based on its ID.

Conclusion: This program provides a simple and effective solution for managing attendance records. Its lightweight nature and menu-driven interface make it an ideal choice for small-scale use cases in schools, colleges, or workplaces.