

## **Synopsis**

# **The Event Tracker Program**

**Project ID: PS35**

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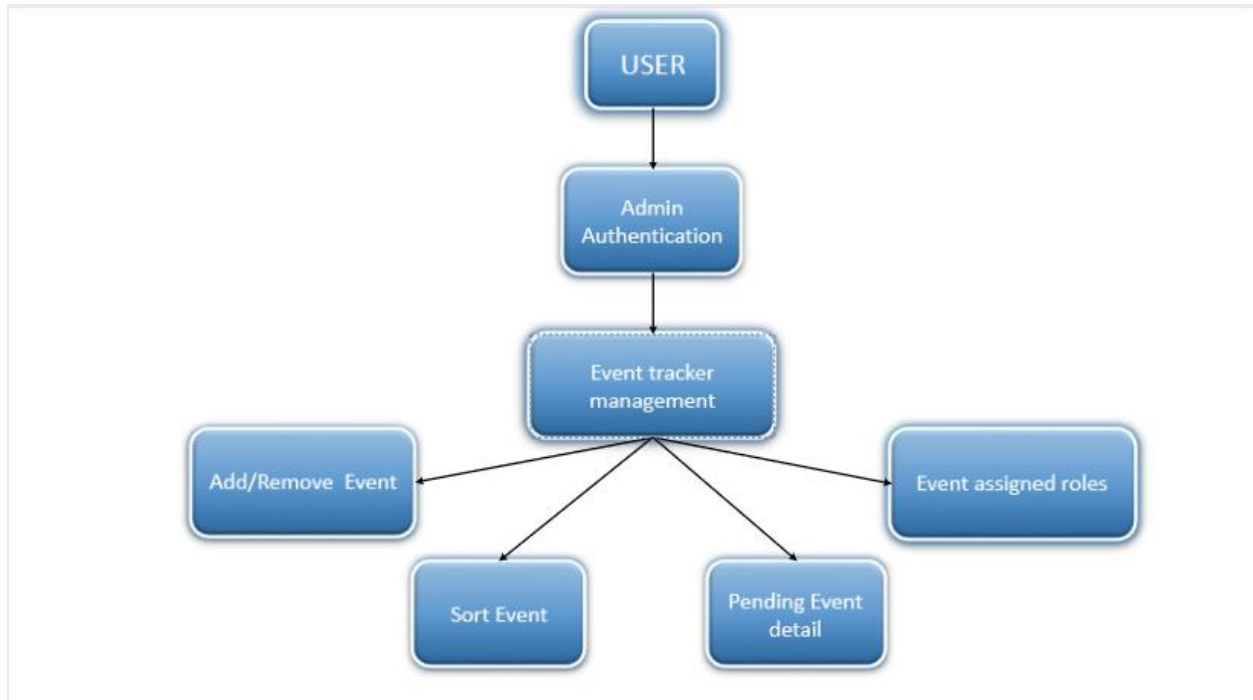
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## **Problem Description**

The Event Tracker Program is designed to help users efficiently manage and organize events. Keeping track of events manually can be tedious, error-prone, and unstructured. This program provides a structured way to add events with details such as event names and participant counts. Users can view, search, and sort events to analyze event popularity and manage their schedules effectively.

## **Steps of implementation:**



1. **Design Data Structure:** Define event records (Event Name, Number of Participants, Date).
2. **Develop User Interface:** Implement an easy-to-use interface for adding and managing events.
3. **Apply File Handling:** Store and retrieve event data using text/binary files for persistence
4. **Generate Reports:** Display the list of all added events and their details.
5. **Testing and Debugging:** Ensure the program runs efficiently and correctly.

## **Proposed Modules**

1. **Authentication Module:** Add, update, and delete event details.
2. **Search Module:** Find specific events by name.
3. **Sorting Module:** Arrange events based on the number of participants.
4. **Report Generation Module:** Display structured event information.

5. **File Handling Module:** Store and retrieve course details efficiently.

### **Required Topics from the Subject**

1. **Strings:** Used for storing event names and details.
2. **Pointers:** Essential for dynamic memory allocation in event records.
3. **File Handling:** Enables saving and retrieving event data persistently.
4. **Structures:** Organizes event details for efficient access.
5. **Sorting Algorithms:** Implements sorting events based on popularity.

### **Platform Required**

- Block, visual studio or any other C compiler.

### **Books and Link Sources**

1. "Let Us C" by Yashavant Kanetkar.
2. "The C Programming Language" by Kernighan & Ritchie.
3. Online tutorial from **GeeksforGeeks**.
4. YouTube for implementation.