

Tejadatta Kalapatapu

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Practice Activity 11

The purpose of the intramural sports management software is to keep track of university members' participation in them. The platform will store member details including names, email ids, addresses, membership type, and particular club and sports interests. The program will also be able to track their performance, keep a database of their actions, and document their involvement in different sporting events and tournaments.

The system's main features are allowing members to register, updating their personal information, following their attendance at events, logging performance metrics, and providing comprehensive reports on their actions. All kinds of membership are supported by the software. The simple design of the user interface makes it easier for administrators and members to track activity and manage their information.

Initial CRC:

1. Class: Member

Responsibilities:

- Store personal details (name, email, address, membership type)
- Track interests in sports and clubs
- Record participation history

Collaborators:

- MembershipManager
- EventManager

2. Class: MembershipManager

Responsibilities:

- Register new members
- Update membership status
- Manage different membership types
- Generate membership reports

Collaborators:

- Member
- ReportManager

3. Class: EventManager

Responsibilities:

- Schedule events and competitions

Collaborators:

- Member
- PerformanceTracker
- ReportManager

4. Class: PerformanceTracker

Responsibilities:

- Record performance statistics for members

Collaborators:

- Member
- EventManager

5. Class: ReportManager

Responsibilities:

- Generate event participation and performance reports

Collaborators:

- MembershipManager
- EventManager
- PerformanceTracker

6. Class: NotificationManager

Responsibilities:

- Send notifications to members about events and updates

Collaborators:

- EventManager
- Member

Final CRC:

1. Class: Member

Responsibilities:

- Store personal details (name, email, address, membership type)
- Update member details
- Track interests in sports and clubs
- Record participation history

Collaborators:

- MembershipManager
- EventManager

2. Class: MembershipManager

Responsibilities:

- Register new members
- Update membership status
- Manage different membership types
- Generate membership reports

Collaborators:

- Member
- ReportManager

3. Class: EventManager

Responsibilities:

- Schedule events and competitions
- Notify members of upcoming events
- Record participation and performance
- Generate event reports

Collaborators:

- Member
- PerformanceTracker
- ReportManager

4. Class: PerformanceTracker

Responsibilities:

- Record performance statistics for members
- Update performance records
- Retrieve performance data for reports

Collaborators:

- Member
- EventManager

5. Class: ReportManager

Responsibilities:

- Generate reports on member activities
- Generate event participation and performance reports
- Provide data analysis for administrators

Collaborators:

- MembershipManager
- EventManager
- PerformanceTracker

6. Class: NotificationManager

Responsibilities:

- Send notifications to members about events and updates
- Manage notification preferences for members
- Log notification history

Collaborators:

- EventManager
- Member