

Synopsis: "iSport" - A Free Pickup Game Finder and Organizer Web Application

iSport is a web application developed using .NET with C# and Socket.IO, designed to revolutionize the way athletes and sports enthusiasts connect for pickup games. This platform offers a seamless and interactive experience for users to find, organize, and join local sports events with ease.

Key Features:

- **User Account System:** Users can create personal accounts, allowing them to log in, manage their profiles, and interact with the community.
- **Event Creation and Management:** Registered users can effortlessly create sports events by specifying the event name, date, and location. The application supports a one-to-many relationship, enabling users to organize multiple events.
- **Dynamic Participation:** A many-to-many relationship architecture allows events to be joined by numerous users, and likewise, users can participate in various events, fostering a vibrant and engaged community.
- **Personalized Dashboard:** The homepage features two primary tables:
 - **My Future Games:** Displays upcoming games the user is participating in, showing the event name, location, number of attendees, and time.
 - **All Game Events:** Lists all available events, detailing the event name, location, number of attendees, and event date, offering a comprehensive overview of upcoming sports opportunities.
- **Advanced Search Functionality:** Users can search for events by name, date, location, or the creator's name. The search results are displayed in an informative table, including essential details like event name, location, number of attendees, date, creator's name, and availability status (open for joining or full).
- **Event Details Page:** Clicking on an event name from any list navigates to a detailed page about the game, featuring a map with the location and a mini chat for real-time communication among participants.
- **Creator Profile Access:** By selecting a creator's name, users can view the profile of the event organizer, enhancing trust and community building within the platform.

Technical Overview:

- **.NET with C#:** Chosen for its robust framework, facilitating efficient development of secure and scalable web applications.
- **Socket.IO:** Integrates real-time, bidirectional communication features, enabling instant updates and chat functionality, enriching user interaction.
- **Database Design:** Utilizes relational database management principles, supporting one-to-many and many-to-many relationships to accurately model user-event interactions.

Conclusion:

iSport emerges as a comprehensive solution for sports enthusiasts seeking to find, organize, and join local pickup games. By leveraging advanced web technologies and a user-centered design, it addresses the core needs of its audience, providing a platform that is not only functional but also fosters a sense of community among sports lovers.

