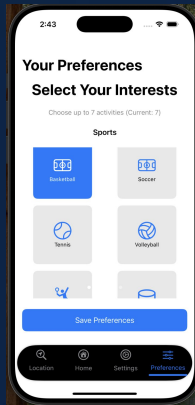




Abstract:

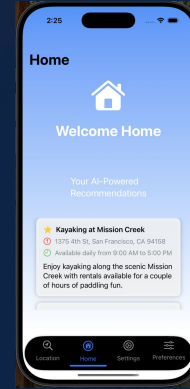
In an age where people crave personalized experiences, the Activity Finder app is designed to change how individuals discover and engage with local events and activities. This innovative application leverages AI-powered recommendation systems to tailor suggestions based on each user's unique preferences, ranging from sports games and live concerts to dining experiences and outdoor adventures.

The goal of Activity Finder is to reduce the friction users often experience when trying to decide how to spend their free time, offering a smarter more engaging way to connect with the world around them. By bringing convenience, customization, and discovery into one intuitive platform, Activity Finder aims to enhance everyday life and redefine local exploration through technology.



Functionality:

The app displays a list of preferences under several categories including sports, entertainment, wellness, social, and food and drink. The user selects up to 7 of the options from all categories and the app saves these preferences. The app then takes these preferences and prompts the integrated Chat GPT API to search the web for upcoming events near the user's location. The returned results are displayed on the app's home page in an organized list.



AI Powered Search:

Activity Finder uses an AI-powered recommendation system to suggest the best nearby activities for users based on their preferences and location. By analyzing contextual data such as time of day and activity type, the AI extension intelligently filters and ranks options to provide personalized suggestions. This enhances the user experience by making it faster and easier to discover relevant and enjoyable things to do within their city.

Firebase:

In our iOS app, Firebase is used to handle user authentication, providing a secure and reliable way for users to sign up, log in, and manage their accounts. By integrating Firebase Authentication, we were able to support features like email/password login and user session management, while also benefiting from Firebase's built-in security and real-time capabilities. This streamlined the authentication process and allowed us to focus more on the app's core functionality.



Swift:

Swift is a powerful and intuitive programming language developed by Apple for building apps across iOS, macOS, watchOS, and tvOS. Known for its safety, performance, and modern syntax, Swift makes it easy to write clean and maintainable code. For our app, Activity Finder, we used Swift to build a responsive and user-friendly interface while taking advantage of native iOS features to ensure smooth performance and seamless integration.

