**HikeVenture**

**Hiking Application**

**General Description** : This application aims to help hikers, offering a seamless platform to discover, plan, and navigate unforgettable hiking adventures. With an intuitive interface, comprehensive trail database, and interactive maps, HikeVenture empowers users to explore the great outdoors with confidence. From discovering new trails to planning customized routes and tracking progress in real-time, HikeVenture ensures every hike is a memorable experience.

**1. Introduction Page:**

* **Buttons:**

"Sign Up": Redirects users to the registration page.

"Visit as Guest": Allows users to explore the application without creating an account.

**2. Registration Page:**

* **Fields:** The user has to fill in his name, username, email and password in order to create a new account to make a more customized experience.

**3. Home Page:**

* **Toolbar:**

"Trails": Access to view available trails.

"Plan": Ability to plan a hiking route.

"Map": Provides access to the map displaying trails and routes.

"Profile": Access to user's profile settings.

**4. Map Page:**

* **Features:**

Interactive Map: Displaying trails, landmarks, and user's current location.

Ability to Zoom and Pan: Users can explore the map easily.

Route Tracking: Enables users to track their progress along the trail.

Trail Information: Pop-ups or overlays with details about specific trails when clicked.

**5. Trails Page:**

* **Trail Listings:**

Display of available trails with name, distance, estimated Time and difficulty (uphill and downhill).

Sorting and Filtering Options: Allow users to sort trails by distance, difficulty, etc.

Trail Details: Clicking on a trail provides more detailed information including elevation profile, trail conditions, and user reviews.

**6. Plan Page:**

* **Planning Tool:**

Input Fields: Location (starting point) and Destination.

Route Suggestions: Provides suggested hiking routes based on user input.

Customization: Option to adjust routes based on user preferences (e.g., difficulty level, distance).

Estimated Time and Distance: Displayed for selected routes.

Save and Share: Option to save planned routes for future reference or share with friends.

**7. Profile Page:**

* **User Profile:**

Personal Information: Name, username, email, and profile picture.

Trail History: Record of previously hiked trails.

Preferences: Ability to set hiking preferences (e.g., preferred difficulty level, favorite trails).

Settings: Option to update account settings, change password, or log out.

Favorites: Ability to save the planned trails.

**8. Additional Features:**

* **Search Functionality:** Allows users to search for specific trails, locations, or landmarks.
* **GPS Integration:** Utilizes GPS functionality to track user's location and provide real-time navigation assistance.
* **Social Sharing:** Option to share completed trails, planned routes, or achievements on social media platforms.
* **Offline Access:** Ability to download maps and trail information for offline use in areas with limited connectivity.
* **Community Features:** Integration of forums or social features for users to share tips, experiences, and recommendations.
* **Safety Features:** Emergency contact information, weather updates, and tips for safe hiking practices.