Trail Tracker

John Schwartz, Diana C, Jermell Howard Jr., Julie Emily
@oksanayatskiv/Liftoff_April21_Oksana_Group_Project on GitHub

Description

We are creating this application to make the process of locating trails more simple and efficient for users searching for a specific feature of a trail.

Users will be able to create a profile, search by name and/or location of trails and filter by features like "allows pets", "children friendly" , "paved/asphalt", etc. Users will also be able to narrow search results by selecting the desired duration of trails. In addition, users will have the ability to leave ratings and have the option to "favorite" a trail they have visited. Users will also be able to plan a group trail visit with other registered users using the "meetups" option.

Features

- **Search:**
  Users can enter search terms to locate desired trails.

- **Filter:**
  Additionally, users can utilize filtration options (distance, difficulty, rating, etc.) to narrow search results.

- **Meetups:**
  Users have the option to schedule meetups with other users at a selected location.

- **Authenticated Access:**
  Specific features, such as creation and deletion of meetups and favoriting trails, is restricted to authenticated users only.

- **Rating:** Trails can be ranked on a scale of 1-5 stars (1 = worst and 5 = best).

- **Favoriting Trails:** Authenticated-users are able to favorite trails.

- **Map Views:** Users can reference an interactive map view while searching for trails or viewing meetup details.

Planning - User Stories

As a registering user, I am provided with an email input, password input, and verify password input.

As a user, I can log in with my account using the email address I provided when I registered.

As a user, I want to be able to filter the list of trails by feature to find the type of trail I'm looking for more efficiently.

Planning - Database

- Users
- Trails: Fields representing features of the trails to filter and search by. Holds coordinate and Place ID information for use with Google API.
- Meetups: Contains event information with foreign keys linking creator (user ID) and location (trail ID)
- Ratings: Links user IDs and trail IDs to an integer rating and text for comment/review

Technology Stack

- Java
- JavaScript
- Spring Boot
- Thymeleaf
- MySQL
- Bootstrap
- Google Maps API

Demo

What We Learned

- How to use utilize Google Maps API and geocoding
- Spring Security
- Managing user accounts
- Utilizing more Bootstrap classes
- Rendering content based on login status
- Geolocation requests

What's Next

- Email Verification
- Distance Sort/Filter
- Sign In with Google