**RealTrail**

This application is about hiking trails in different parks and users can customize their hiking trail plan and post the info for other people to join.

**Key features**

1. Implement a Maps/Geolocation API(On the map, users can drag and drop a pin which makes the map zoom in and get the location, and then it’ll display the parks near the location.)
2. Search functionality(Users can type in a park name or trail name to search for the location and the related parks or trails will display.)
3. Users click the trail or park to go to the individual trail page with more details -- name, difficulty level, rating, length, elevation, type, description, pictures, map and comments. On the map, you can get the directions.
4. There’s an events page, where users can see all the different events created by all the users. Each event has a link to its own page.
5. An event has this info -- event name, date, which park and which trail(existing ones or customized one), estimated time to spend on the trail, time to meet, where to meet, who to contact and description about the event. People who want to join the event can leave a comment or ask questions below.
6. Users can download the map with the trail they pick or create on to their device(usually phone) and it’ll show where they are on the map when they are in the park but offline.
7. Verification email
8. Register users and login auth and lock down profile page and no comments button for visitors
9. Event managers can create an event
10. Individual event page
11. On profile page users have access to their events
12. Usernames and emails are unique
13. Dynamic navbar for logged in users and guests
14. Allow event managers to update and delete their events
15. Allow users to update their profile
16. Error messages
17. Sticky forms
18. Mobile responsiveness
19. Intended Redirects
20. Implement a calendar API

The application will have a login/register page, a main page where visitors/users can see the parks/trails info, each user has a profile page where they can edit their info, an events page where users can see the events listed in a descending order divided by “past events” and “future events”, each trail has its own page. Probably need to use map API, trail API, weather API (if needed)

**Register form**

Username

Email

Password

Password Confirmation

**Profile form**

First name

Last name

Phone number

City, State, Zip Code

Upload an image

What are you looking for? Interests (checkbox)

**Event form**

Name

Date

Location

Trail

Map

Where to meet

What time to meet

Who to contact

Description

User stories:

1. Visitors can register or visit the main page. Clicking the park/trail cards on the main page, visitors will be redirected to the individual trail page to see more details. Or they can search for the trail or park they’re looking for.
2. Visitors enter their info to create their accounts, after creating accounts, visitors receive an verification email. Clicking the link inside the email, the visitors get a message saying “verified” and then redirected to the login page. After the users login the first time, they go to create the profile form to fill in more info and then they’ll be redirected to the profile page where they can set up 2-factor authentication.
3. Visitors can also drag and drop a pin which makes the map zoom in and get the location, and then it’ll display the parks near the location.
4. After the users login, they can go to the events page to create an event or see what events there are and they can leave a comment.

**Database**

Users table -- one to many -- interests table

id

First name

Last name

username

Email

Password

Phone number

Address(maybe?)

profile image

Interests table

Hiking trails

Biking trails

Pet friendly trails

Trails table -- one to many -- trailcomments table

id

Name

difficulty level

Rating

Length

Elevation

Type

Description

Pictures

Map ?

Comments

id

user\_id

date

comment

Events table

Id

User\_id

Created date

Name

Date

Location

Trail

Map

Where to meet

What time to meet

Who to contact

Description

Event\_member

Trail blizzer