GeoLock

By Group 013-01 (Nolan Annis, Even Laukli, Kyle Neff, Yefan Wang, Owen Arnold)
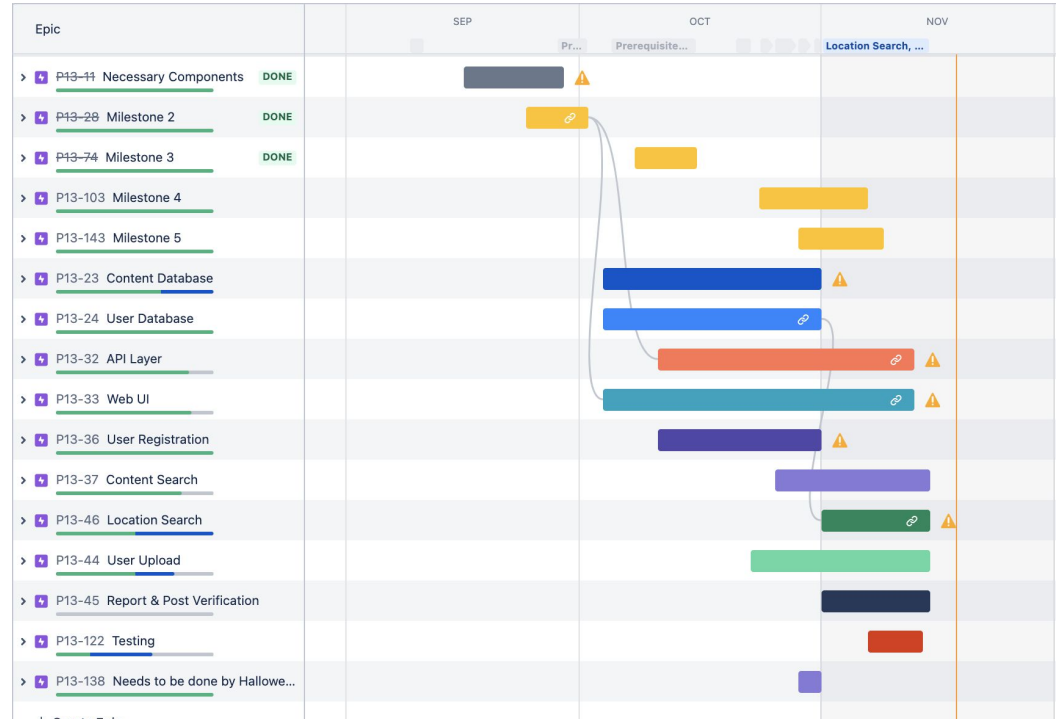
Description

- Encourage users to get out, explore their environment, and share with others what they experience.
- Track how places and people change over time.

- Users are only able to post when they are actually present at the location specified
- Users can save, like, and dislike comments for tracking later.

Tools and Methodologies: Project Tracker

- Rating: 3.7/5
- Used to track who was working on what and when it should be finished
- Ended up using other tools more to communicate towards end of project
- Agile
  - scrum style meetings

Tools and Methodologies: VCS Repository

- Rating: 5/5
- Pair Programming

Tools and Methodologies: Google Maps Javascript API

- Rating: 4.9/5
- Drawing Polygons (from gps coordinates in our database)
- Handling User Locations
- "$300" in free credit for 90 days

Simple Polygon 🔖   Send feedback
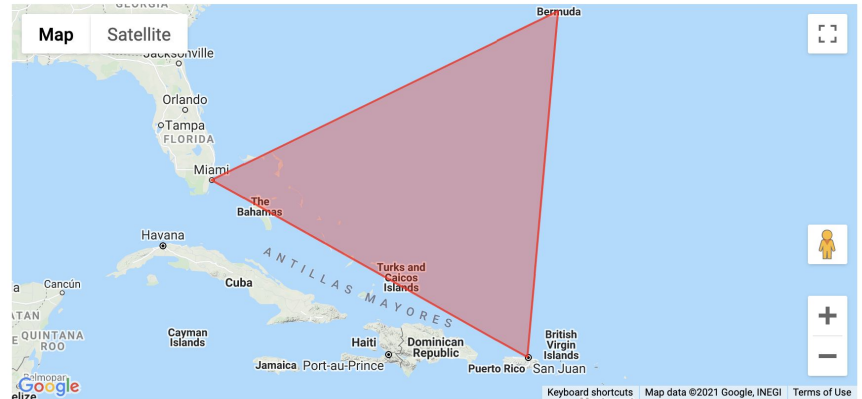
This example creates a map with a simple polygon representing the Bermuda Triangle.

Tools and Methodologies: Database

- Rating: 4.5/5
  - Fairly straightforward with minor errors
- Holds all backend data
- Good scalability to hold all necessary information

Database Used


```
ocation-app-013-01::DATABASE=> \dt
               List of relations
 Schema |    Name    | Type  |      Owner
--------+-----------+-------+----------------
 public | comments  | table | tntcklawyvlnlj
 public | locations | table | tntcklawyvlnlj
 public | users     | table | tntcklawyvlnlj
(3 rows)
```

Part of the locations table

Tools and Methodologies: Deployment Environment

- Rating: 4 out of 5
  - Some confusion and setbacks, but mostly easy to use and handle.
- Being used to host app
- Can update database without having to push again

HEROKU

Frameworks: Node.JS and XML/AJAX

- Rating: 4 out of 5
- Mostly followed what we did in class but required a decent amount of modification to fit our use case.
- Used XML HTTP requests for handling likes, dislikes, and favorites without reloading the page.
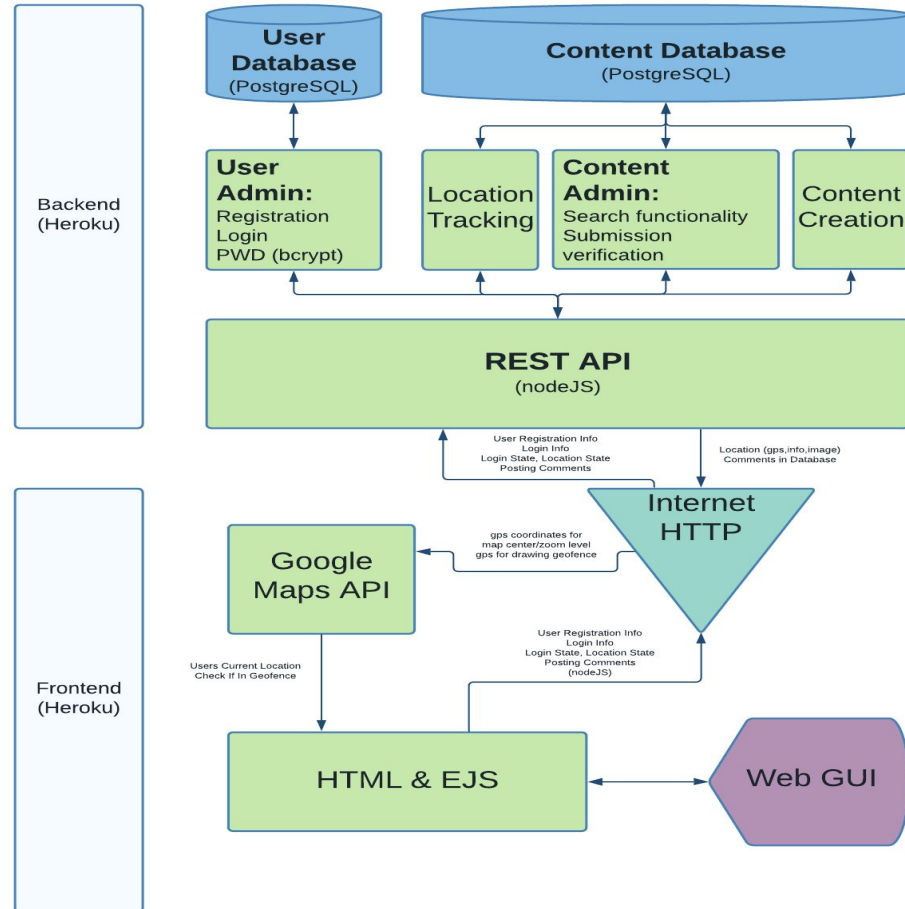- Used express-session package for Node.JS to handle session cookies and user authentication.
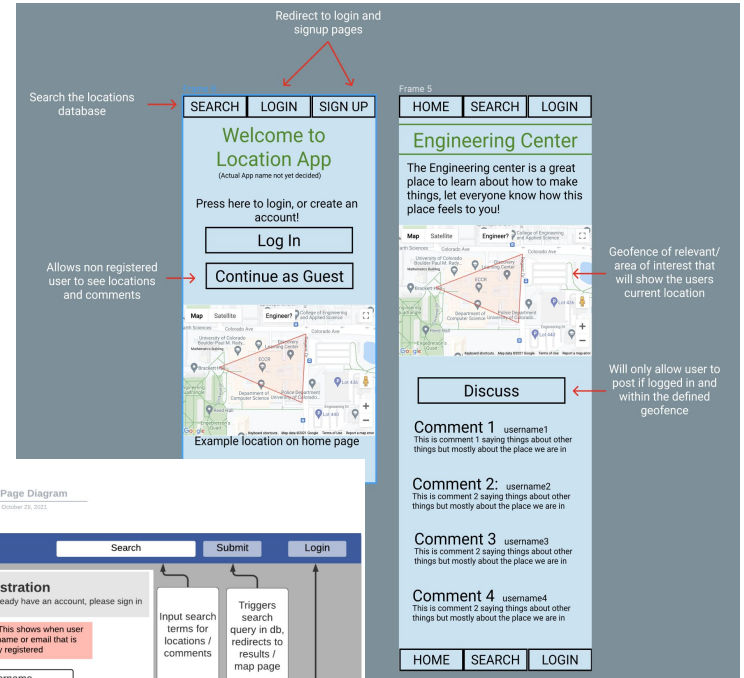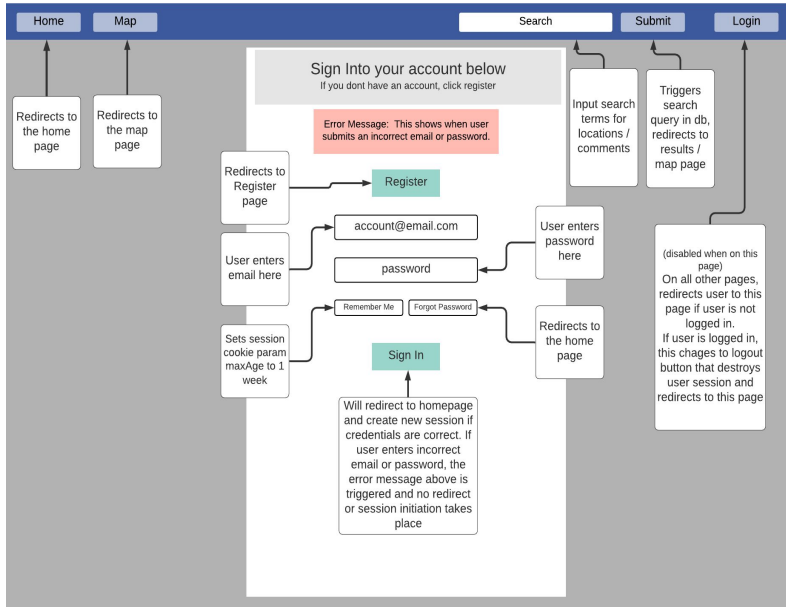- User passwords are hashed using the bcrypt package.

Architecture Diagram

Wireframes

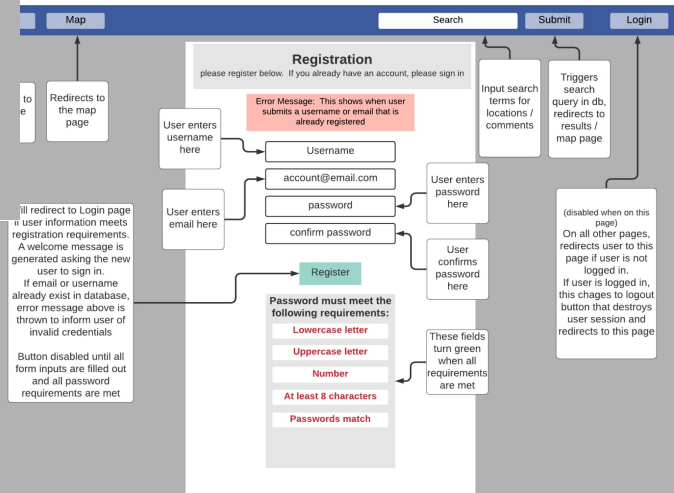**[Top-right mobile mockup 1]**

SEARCH | LOGIN | SIGN UP

Welcome to Location App
(Actual App name not yet decided)

Press here to login, or create an account!

[Log In]

[Continue as Guest]

Example location on home page

- Redirect to login and signup pages
- Search the locations database
- Allows non registered user to see locations and comments

[Top-right mobile mockup 2]

Frame 5

HOME | SEARCH | LOGIN

Engineering Center

The Engineering center is a great place to learn about how to make things, let everyone know how this place feels to you!

[Discuss]

Comment 1: username1
This is comment 1 saying things about other things but mostly about the place we are in

Comment 2: username2
This is comment 2 saying things about other things but mostly about the place we are in

Comment 3: username3
This is comment 2 saying things about other things but mostly about the place we are in

Comment 4: username4
This is comment 2 saying things about other things but mostly about the place we are in

HOME | SEARCH | LOGIN

- Geofence of relevant/ area of interest that will show the users current location
- Will only allow user to post if logged in and within the defined geofence

[Left large wireframe - Sign In page]

Home | Map | Search | Submit | Login

Sign Into your account below
If you dont have an account, click register

Error Message: This shows when user submits an incorrect email or password.

[Register]

account@email.com

password

[ ] Remember Me   Forgot Password

[Sign In]

- Redirects to the home page
- Redirects to the map page
- Input search terms for locations / comments
- Triggers search query in db, redirects to results / map page
- Redirects to Register page
- User enters email here
- User enters password here
- Sets session cookie param maxAge to 1 week
- Redirects to the home page
- (disabled when on this page) On all other pages, redirects user to this page if user is not logged in. If user is logged in, this chages to logout button that destroys user session and redirects to this page
- Will redirect to homepage and create new session if credentials are correct. If user enters incorrect email or password, the error message above is triggered and no redirect or session initiation takes place

[Bottom center wireframe - Registration page]

Registration Page Diagram
Owen Arnold | October 29, 2021

Map | Search | Submit | Login

Registration
please register below. If you already have an account, please sign in

Error Message: This shows when user submits a username or email that is already registered

Username

account@email.com

password

confirm password

[Register]

Password must meet the following requirements:
- Lowercase letter
- Uppercase letter
- Number
- At least 8 characters
- Passwords match

- Redirects to the map page
- Input search terms for locations / comments
- Triggers search query in db, redirects to results / map page
- User enters username here
- User enters email here
- User enters password here
- User confirms password here
- Will redirect to Login page if user information meets registration requirements. A welcome message is generated asking the new user to sign in. If email or username already exist in database, error message above is thrown to inform user of invalid credentials. Button disabled until all form inputs are filled out and all password requirements are met
- These fields turn green when all requirements are met
- (disabled when on this page) On all other pages, redirects user to this page if user is not logged in. If user is logged in, this chages to logout button that destroys user session and redirects to this page

Challenges

- Struggles getting Heroku to work
- Figuring out how to integrate maps
- User authentication and unique session id cookie.
- Figuring out proper promises and callbacks for multiple requests
- Comment reporting: We planned to create this feature, but was a challenge and the idea got scrapped.

Demo Time!!

link for milestone:
https://location-app-013-01.herokuapp.com/