

National Parks Road Trips

Tehya Laughlin, Derick Sayavong, Griffin King, George Frommell, Devin Green, and Jack Schwalbach

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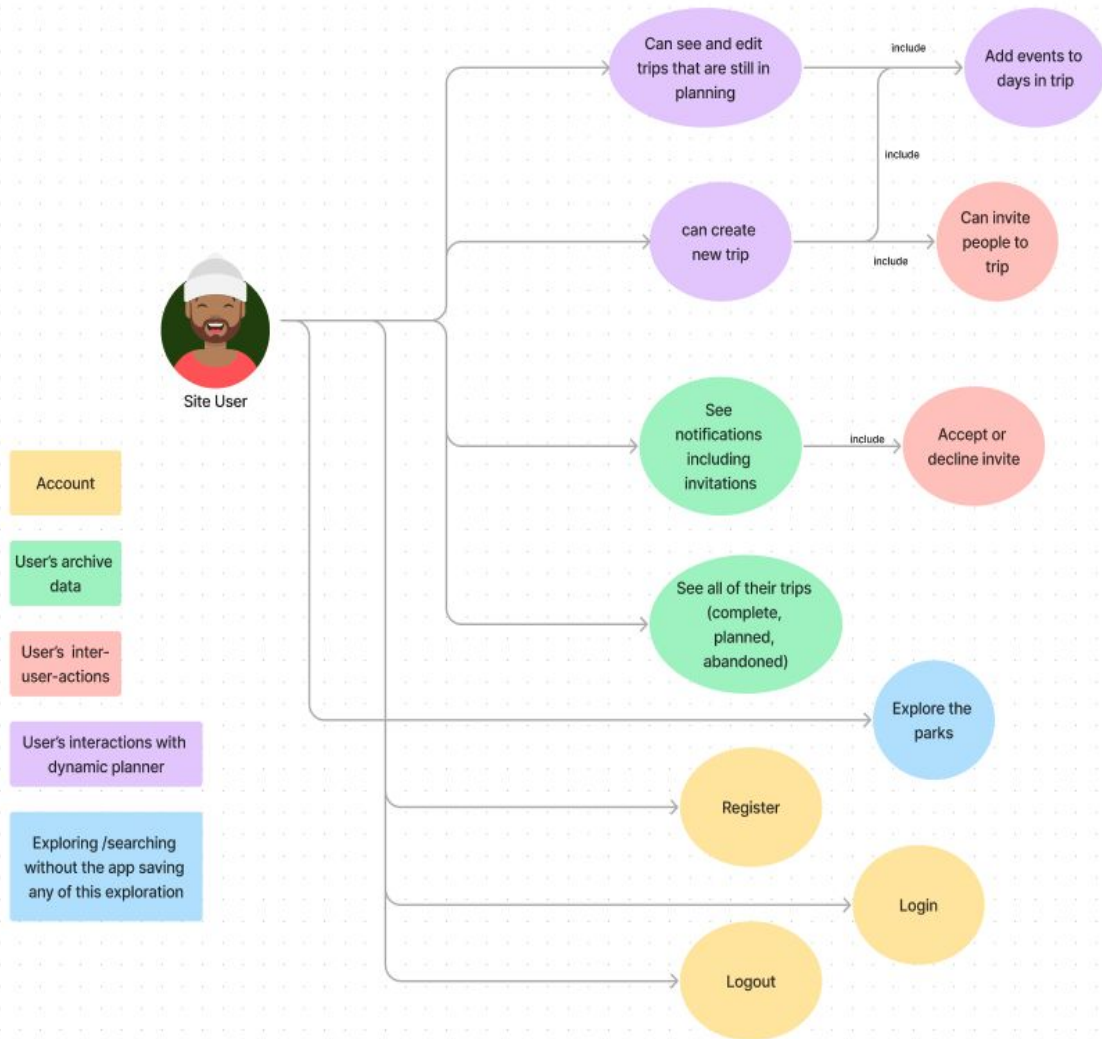
01

Description

Our goal with the application

- Deliver a seamless and intuitive user interface that simplifies the process of researching and scheduling trips to national parks, ensuring a delightful experience from start to finish.
- Offer helpful content about each national park to enhance the visitor's trip, by providing information about campgrounds, activities, and events.
- Facilitate a social platform within the app that allows users to effortlessly coordinate and schedule trips with friends and family.

What our application does



02

Tools + Methods

Tools



Github and Project Board : 5



Postgresql: 5



VScode: 5

Tools



NodeJS: 5



National Parks Service API: 5



Local Host: 5

Tools



Docker: 3



HTML, CSS, JS, Handlebars: 4



Figma: 4

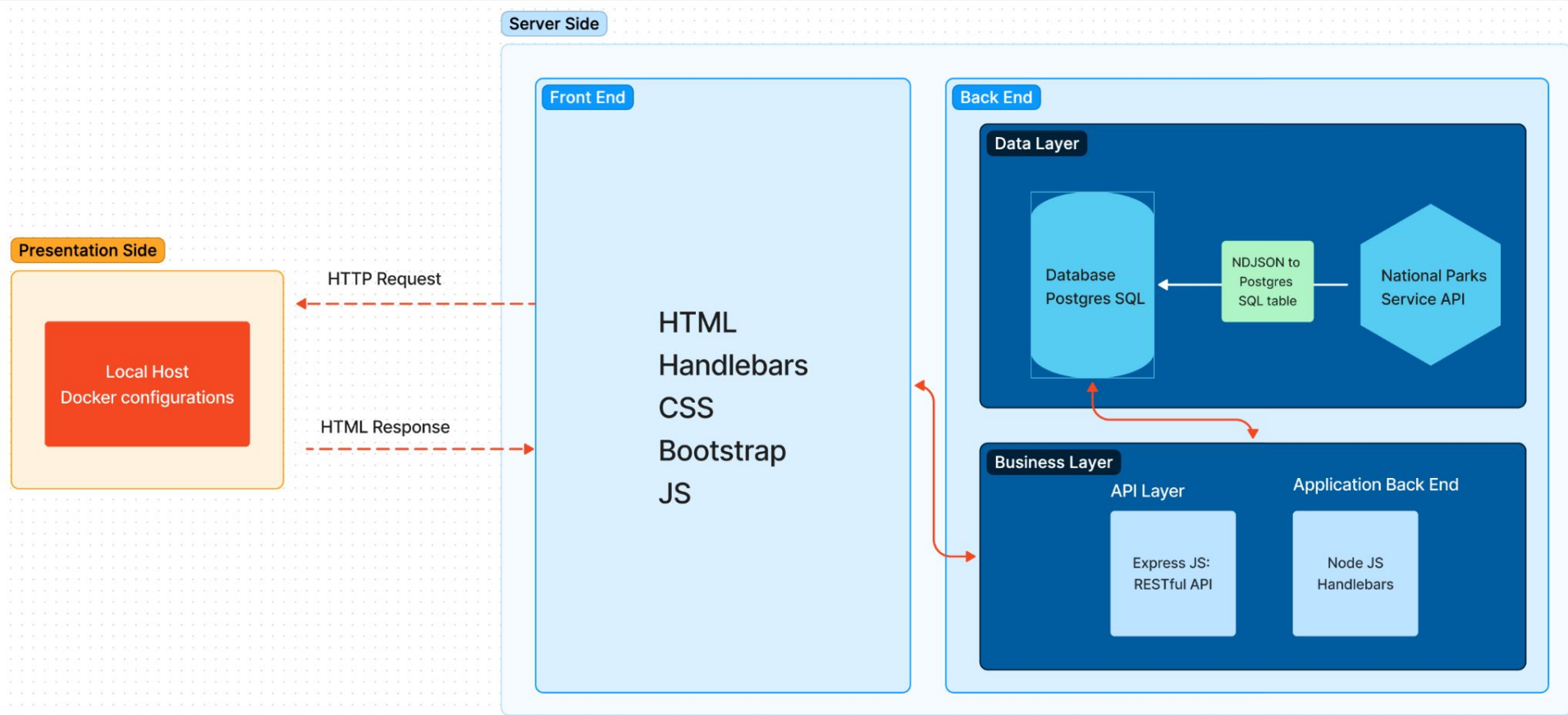
Methodology

What were the roles? How did we collaborate?

- Agile: Met up weekly for planning and for checking in
- Both Front-end and Back-end
- Pair Programming
- Iterative process

03

Architecture



Architecture Diagram

04

Challenges

Challenges

Database: Translating data received from NPS API (NDJSON format) to Postgres database

- JSON data types within our tables required extra research to be able to manipulate and display on webpage (hbs helpers)

Webpage: Handling data across endpoints of our webpage

- Used ':' notation in index.js endpoints to render pages that required user specific data

```
app.get('/edit/:id/:day_id?', (req, res) => {
```

05

Future Scope

Future Scope

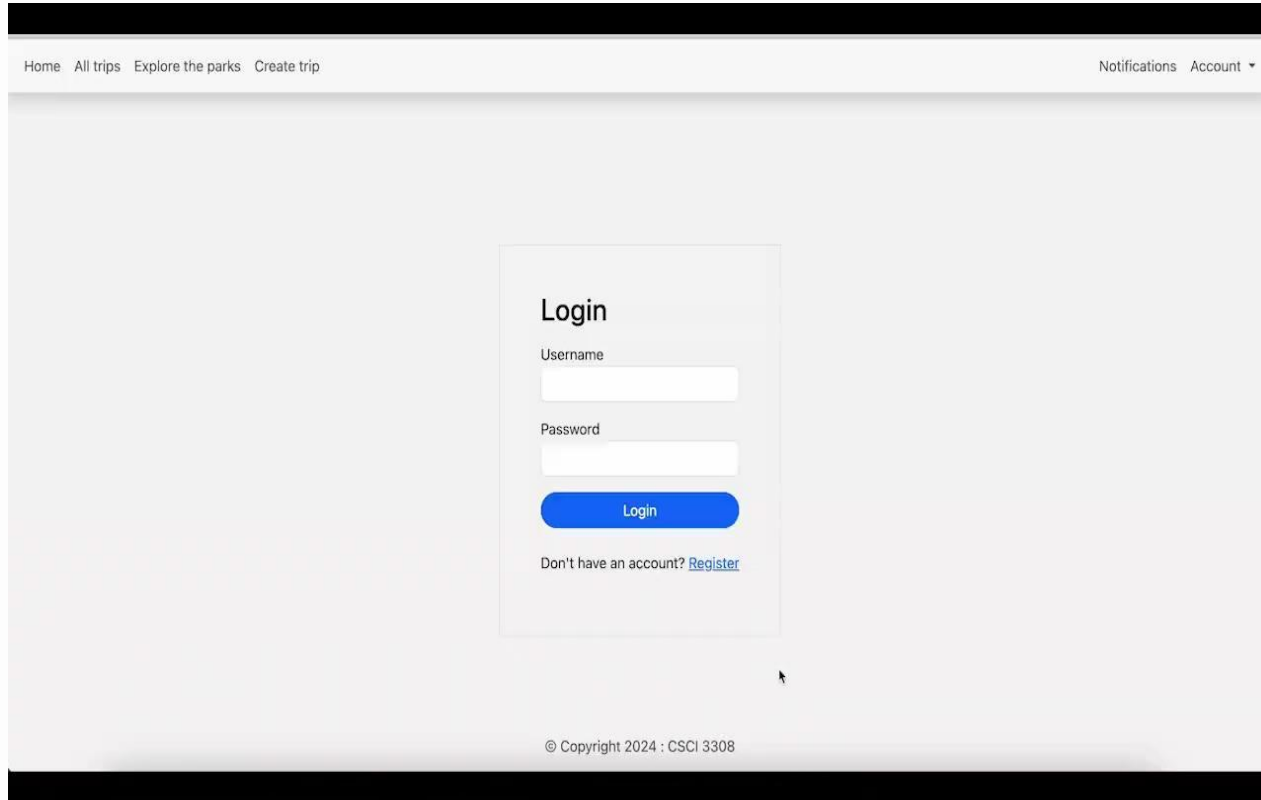
- Deployment on various accessible platforms
- Develop other CRUD functions: update and delete for events added to days
- Social Media implications such as posting images from the completed trip and following friends. Maybe have a popular itineraries section.
- Integrate a mapping API to provide an interactive map interface that allows users to plot their itinerary, and gps tracking for real time navigation assistance.
- Add a real time weather forecast API so users can plan their trip accordingly
- Better Branding, rename to like **TrekTerra™**, **TrailBlazer™**, **Trale™**, or **Adventura™**.



06

Demo

Video Demo



The screenshot displays a web application interface. At the top, there is a black header bar. Below it, a navigation bar contains links: "Home", "All trips", "Explore the parks", and "Create trip" on the left, and "Notifications" and "Account" with a dropdown arrow on the right. The main content area is light gray and features a centered white login form. The form has a title "Login", followed by "Username" and "Password" labels, each with a corresponding input field. A blue "Login" button is positioned below the fields. At the bottom of the form, it says "Don't have an account? [Register](#)". A mouse cursor is visible near the bottom right of the form. The footer of the page, separated by a black bar, contains the text "© Copyright 2024 : CSCI 3308".

Home All trips Explore the parks Create trip Notifications Account ▾

Login

Username

Password

Login

Don't have an account? [Register](#)

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<https://drive.google.com/file/d/1fHvqvWjfGZbnYPPfelgiP95nxQ7Jon4Z/view?usp=sharing>

Thanks!

Do you have any questions?

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