Date

November 4, 2024

Coffee Spot

Team 3 Members

Miguel Antonio Logarta - Lead |

Alan Yu - Scrum Master | Diane Bilse - Front End |

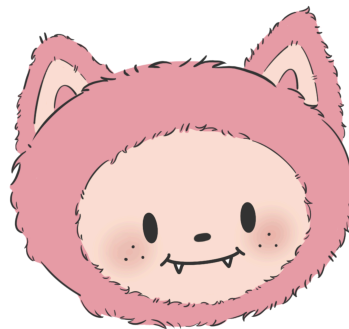Halia Tavares - Front End | John Bagwell - Back End |

Su Tun (Emily Su) - Git Master | Timmy Tram - Back End |

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Milestone 3

Review of functionality, UI, SW and planning for final product delivery

SW Engineering CSC648/848 - Section 01

History	Date
V0.1	11.02.2024
V0.2	**11.18.2024**

UI and Functionality Feedback

<u>Professor's Comments and Feedback</u>

- We should focus on emphasizing a feature where users can see the busyness of a location on the map.
- Professor Song complimented our UI design and requested an additional slide deck on builder.
- Professor Song said that we should focus on highlighting how users can submit data to update information for each location on the website (user-submitted data)

<u>Our Plan in Response to the Feedback</u>

Our app is focused on finding "third spaces" where people can find places to study and hang out. For our special feature, our app focuses on places such as cafes, libraries, and parks.

Basic information such as opening/closing times, addresses, and images can be found using Google's location API, however for other information such as noisiness levels, wifi, and chargers, it is up to the users to submit information.

Because of this, we have to emphasize features that allow users to submit their own data to the website to keep things updated.

Here are some features that we could build:

- A page for business owners to edit information of their own location
- A "claim this business" button so that a person can claim and edit information of a location
- Allow users to submit a busy rating to update the capacity chart of locations
- A page for admin users to edit and remove locations for moderation purposes
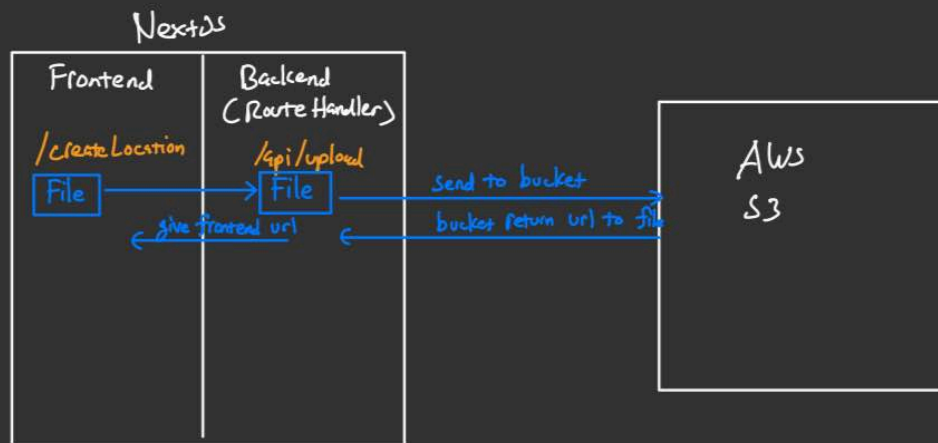
- Allow users to leave a review on a location
- Allow users to specify whether a place has certain amenities (wifi, charging, printers, etc…)
- Allow users to specify whether dogs are allowed
- Allow users to submit pictures of the location
- Allow users to bookmark a location
- Allow users to create folders of their bookmarked locations
- Allow users to access their bookmarks displayed on their profile pages

List of P1 Features Committed for Delivery

User Functions	User Registration
	User Login/Logout
	Leave Reviews
	Change Account Info
Admin Functions	Add/Delete Locations
	Map Functions
	Map Pins
	Location List View
	Location Information
	See Address

Architecture

Local Env.

Next.js

Frontend

/create Location

[File]

Backend
(Route Handler)

/api/upload

[File]

Send to bucket →

give frontend url ←

bucket return url to file ←

AWS S3

* Works Locally

Production Env.

Vercel

Next.js

Frontend

/create Location

[File]

Backend
(Route Handler)

/api/upload

[File]

Send to bucket

give frontend url ←

bucket return url to file ←

AWS S3
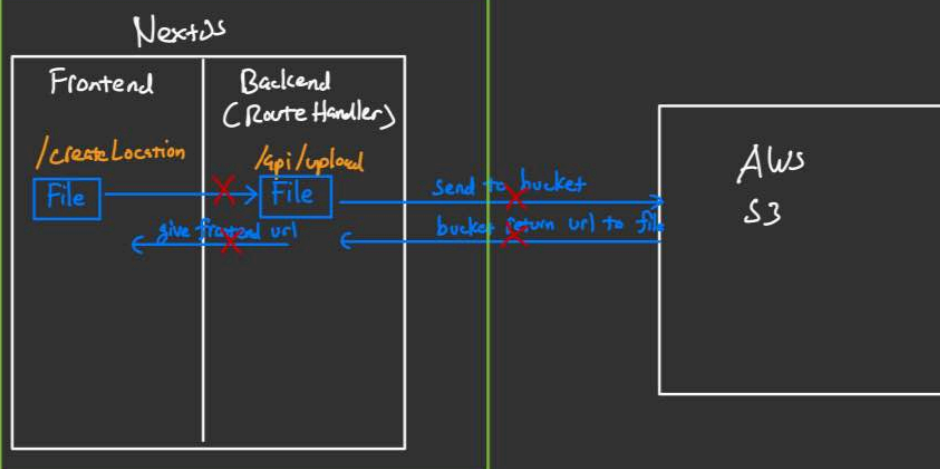
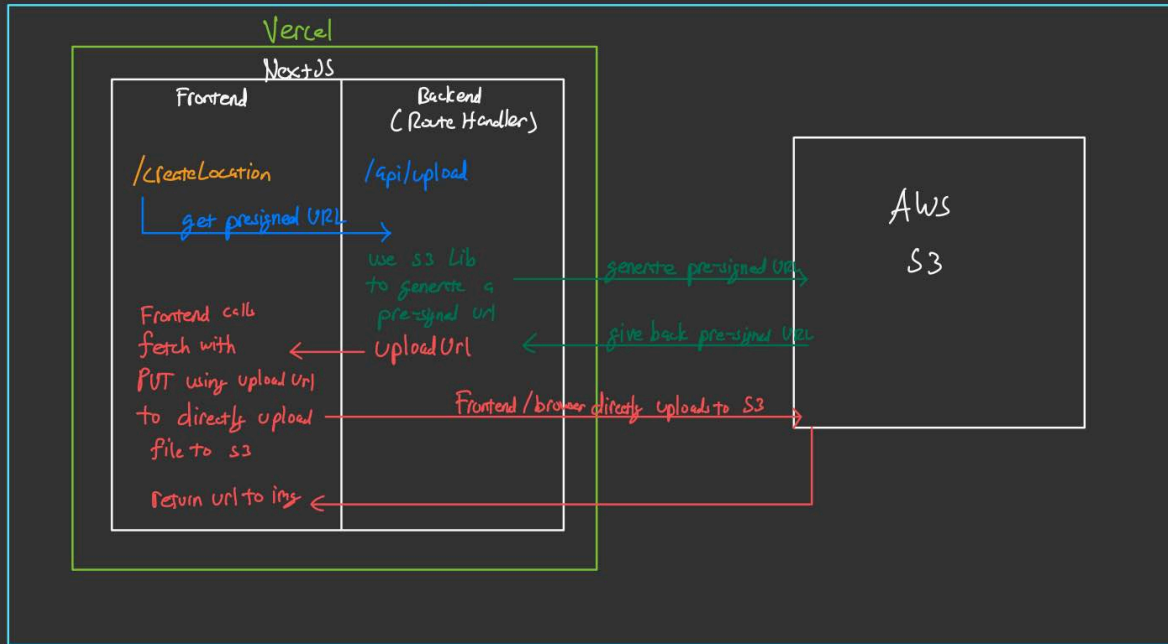** Doesn't work because Vercel DOES NOT ACCEPT FILES ON REQUEST*
Meaning we cannot use the backend as a middleman

Potential Solution

Vercel

NextJS

Frontend	Backend (Route Handler)

/CreateLocation

/api/upload

└── get presigned URL ──→

use s3 Lib to generate a pre-signed url ──── generate pre-signed URL ──→

AWS
S3

Frontend calls fetch with PUT using upload Url to directly upload file to s3

← UploadUrl ←──── give back pre-signed Url ────

──── Frontend/browser directly uploads to S3 ────→

Return url to img ←────────────────────────────

CoffeeSpot

Vercel

Vercel Blob

Next.js

Frontend	Backend
Pages:	/api/auth/signin
/login	/api/auth/signout
/profile	/api/analytics
/signup	/api/bookmarks/creat...
/locationInfo	/api/bookmarks/location...
/admin	/api/bookmarks/user....
/search	/api/bookmarks
/writeReview	/api/locations
	/api/locations/search
	/api/reviews
	/api/reviews/...
	/api/reviews/...
	/api/reviews/...
	/api/reviews/...
	/api/uploads
	a lot of endpoints...

<...>.png

IMAGE UPLOAD

Mongodb Atlas

All endpoints put some data here

Project Status

Risks	Mitigation

Schedule Risk Shifting priorities some members have Jobs that unfortunately shift their focus from the project. Other unexpected events may also cause scheduling issues.	Meetings are generally scheduled at a time that is unobtrusive to our working team members. With backup dates and times determined.
Skill Risk Some team members lack technical knowledge on several technologies required for the project.	Discord channels with resources found by other team members to allow self study opportunities.
Teamwork Risk Inconsistent attendance in meetings and uneven task progress	The Team Lead is open to holding review/makeup sessions to keep team members that are falling behind up to date