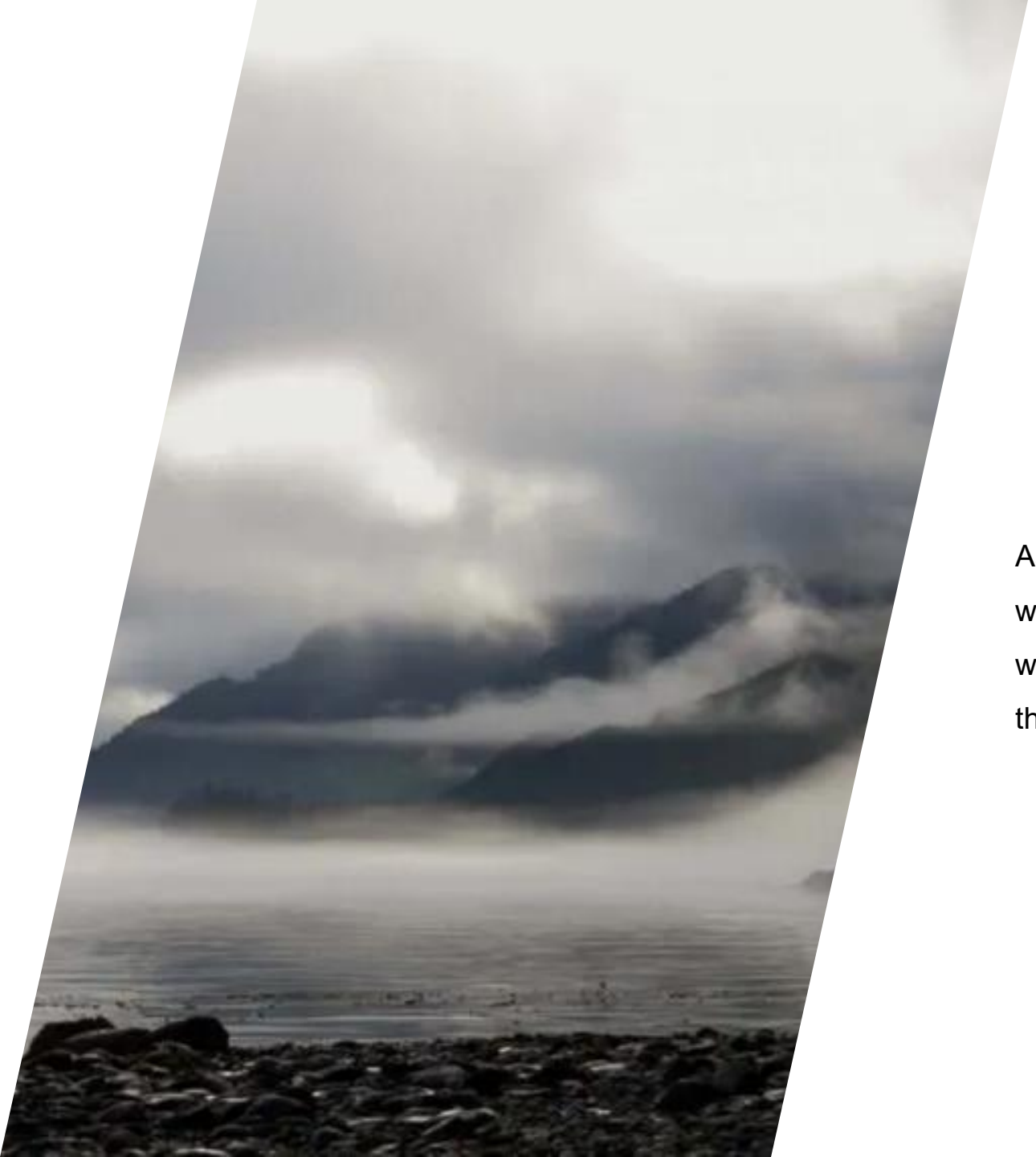
WAYFINDER

PROGRESS REPORT

OUTLINE

- Territorial Acknowledgement
- Introductions
- Project Outline
- Project Background
- Progress Made
- Future Plans
- Demo



TERRITORIAL ACKNOWLEDGEMENT

As landed citizens residing in the vibrant city of Victoria, British Columbia, we acknowledge with deep respect and gratitude that the land on which we exist is the traditional territory of the Coast Salish Peoples, including the Lekwungen (Songhees) and W̱SÁNEĆ (Saanich) Nations.

INTRODUCTIONS

Matthew:
Core Team

Tyler:
Core Team

Dallas:
Core Team

Robert:
Product Owner

TEAM

- Matthew Logan: Team Lead, Back-end Lead
- Dallas Richmond: Front-end Lead
- Tyler Maloney: Front-end Dev, Documentation

CLIENT

- Robert Kobenter, BC Gov

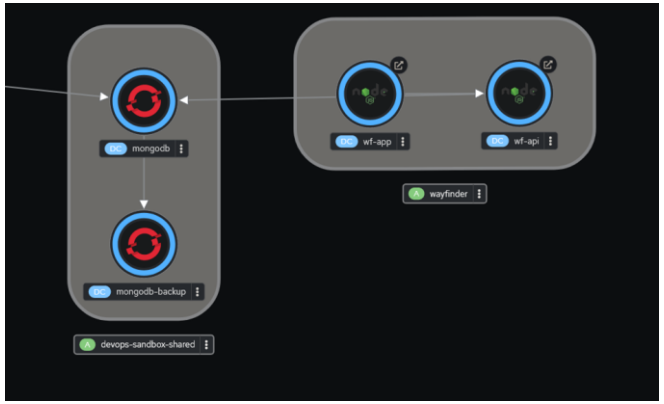
PROJECT

- “Wayfinder”, a BC Gov mapping application meant to act as a verified source of government service locations

BACKGROUND

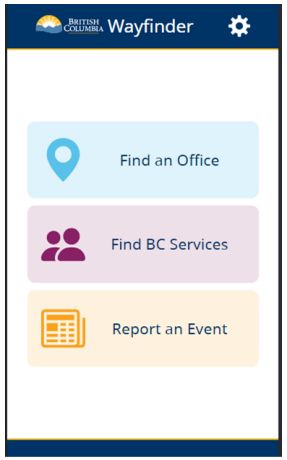
- Citizens seek access to government services through a diverse set of channels.
- Increased use of cellular devices make progressive web applications a viable option.
- Directions online often point to non-public-facing locations, resulting in frustration.
- Relying on a third party to provide service-finding can result in errors or mismatching information.
- The Wayfinder application was designed as a solution to this, providing a verified source of truth for ServiceBC locations.

PROGRESS MADE



CONTAINERIZE AND DEPLOY

- Configured automated deployment with GitHub Actions
- Deploys to the Government of British Columbia's Kubernetes cluster



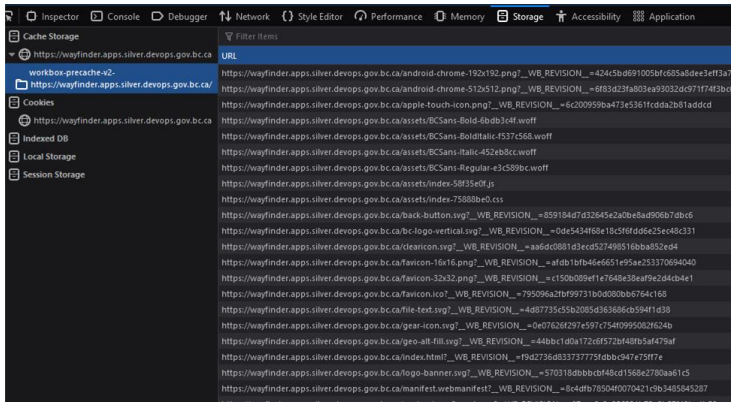
APPLICATION DEVELOPMENT

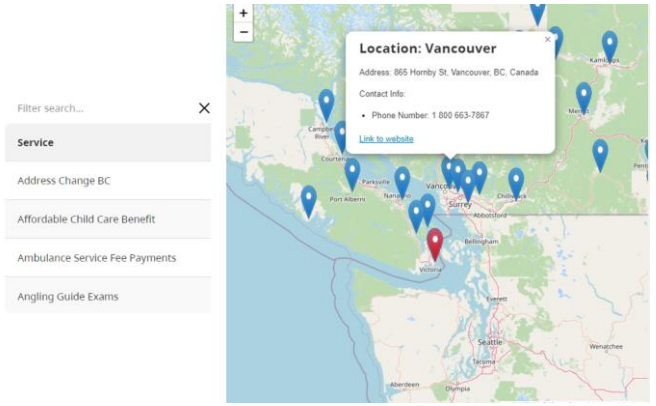
- Fully downloadable with all core functionality intact.
- The application has core features such as mapping, location tracking, and user-submitted reports.

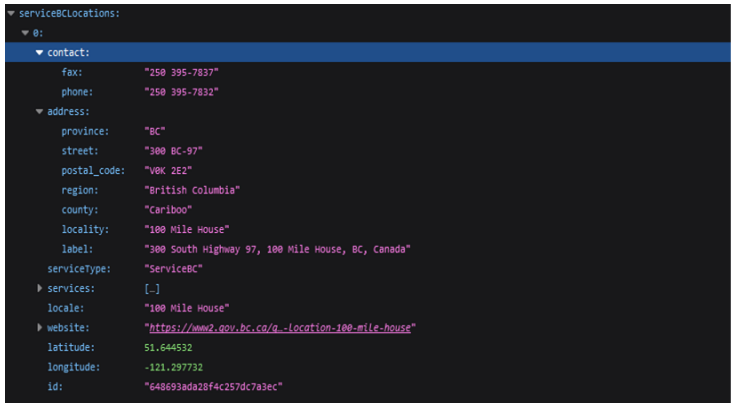
API DEVELOPMENT

- Utilizes TypeScript and Express.js
- Sends initial seed data for the PWA
- Gathers reports and analytical data

PROGRESS MADE







CACHING

- Utilizes ServiceWorker to store application data locally.
- Utilize local storage and caching strategies to reduce data consumption.

MAPPING

- Uses leaflet.js for mapping.
- Shows the user where they are and marks relevant ServiceBC locations.
- Filters office locations displayed through queries.

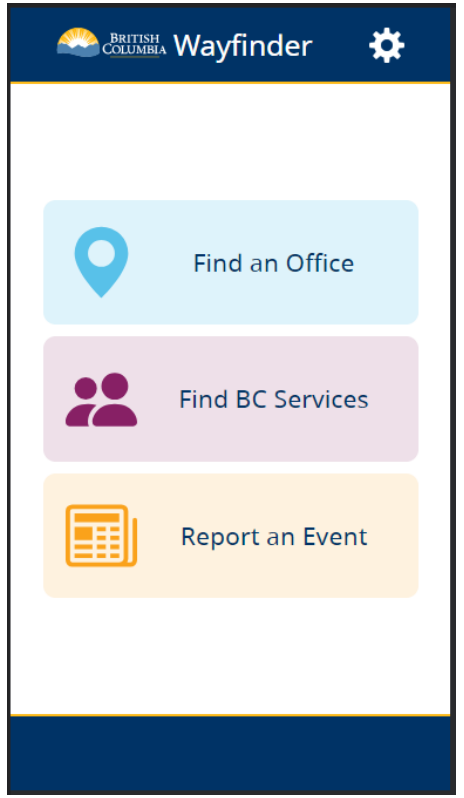
WEB SCRAPER

- No existing API with location data was available.
- Operates using the BeautifulSoup4 Python library
- Scrapes from multiple resources to create location data for all ServiceBC offices.

FUTURE PLANS

- Implement directional routing functionality in the mapping components.
- Research and implement Microsoft PowerBI for analytic data
- UI/UX refinement based on feedback from users and experts

DEMO



Live Demo

CONCLUSION

What is Wayfinder?

- Giving citizens an application that can function whether they are on or offline
- Obtaining anonymous usage data to influence future decision-making
- Assisting citizens in locating verified addresses of ServiceBC offices
- Taking the functionality of a cellular device to empower the user

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THANK YOU!

MATTHEW LOGAN

DALLAS RICHMOND

TYLER MALONEY