



OASIS

Stevens Institute of Technology
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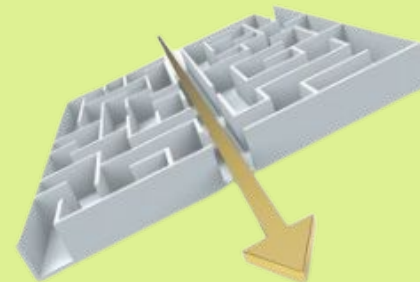
How the Problem Statement Changed

No change since Demo 3:

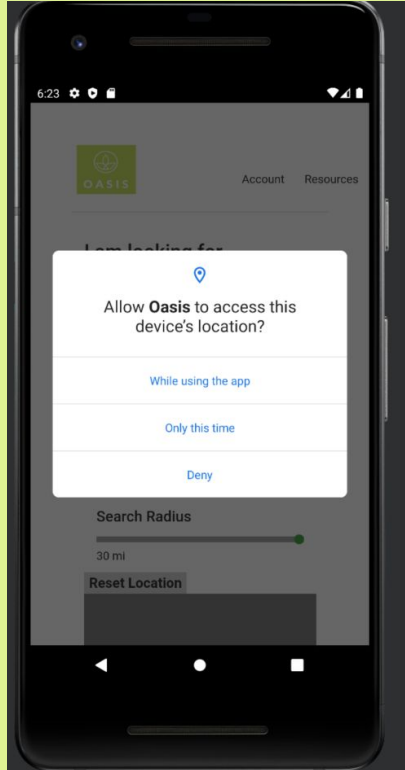
“Women who are **victims of domestic violence** and **homelessness** do not have **adequate access** to facilities and services largely **due to informational restraints**.”

However:

IDE Professor Sigmon introduced an idea on how to pivot the project to be more solution oriented to sell to cities instead of just women/shelters.



Demo!



Logging Methodology

Logs are recorded in the console during runtime

● Regular Logs

- Used for testing purposes
- Helps verify user input, displays rendering delay, etc.

● Warnings

- Reserved for controllable errors
- Ex. Whether the user has enabled location services

● Errors

- Fatal system errors (should be minimized)
- Certain operations cannot execute if there are errors

| | | |
|---|---|----------------------------------|
| ✖ | ▶ showDetails failed: bad status | index.js:1 |
| 2 | Landing page map successfully loaded. | Map.js:206 |
| 2 | ▼ Browser supports geolocation, but user has denied permission (anonymous) @ | Map.js:231 |
| | ----- | Map.js:19 |
| | Search query: Women's Shelters | FindPlaces.js:25 |
| | Loading map took: 0.927 seconds. | Map.js:164 |
| | Currently loaded: 20 results. | Map.js:165 |
| | User chose search radius of 1 miles. | Filters.js:66 |
| | ----- | Map.js:19 |
| | Search query: Women's Shelters | FindPlaces.js:25 |
| | Loading map took: 1.055 seconds. | Map.js:164 |
| | Currently loaded: 2 results. | Map.js:165 |



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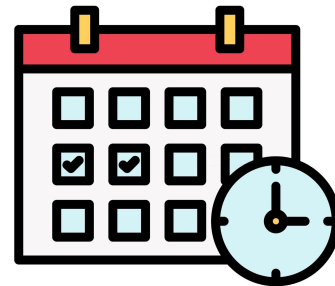
Development Progress

Tracking of Schedules

- By Demo 4: Expansion to mobile apps

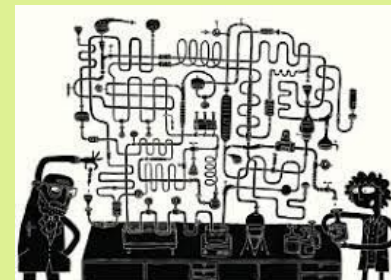
Expanding it on mobile devices (React Native)

- Android: successful transitioning with future UI fixes
- Iphone: faced with Xcode debugging errors
- 02/23: Project **abstracts** submission
- 02/24: **Individual code reading** sessions
- By End-Feb: Complete expansion of **both mobile device types**
- By Mid-March: Front/Back End of review pages, stakeholder meetups, **finalize project** files for attendify submission, begin Demo 5 prep



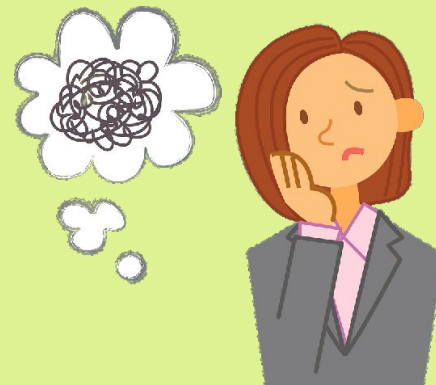
Development Progress

- Review Page, Resource Page development
 - Stable connection of database
 - Contain highly reliable resources (received from the director of Hoboken shelter)
 - Prioritize HCI to make it easier to use
- Cyclomatic Complexity less than 7:
- Code Size: ~23k lines of code
- For Code Quality:
 - Right and concise usage of react components <Routes>, import, etc
 - Pair Programming to review code before creating a pull request
 - Splitting code into multiple smaller functions with a single responsibility



Issues/Worry Beads

- Focusing on web app before moving onto mobile app
 - Refactoring the codebase to incorporate react native may take a long time
 - Integration of database and frontend code is an issue
 - Switching to Mongodb because of issues with Firebase + comfort level
- Performance issues depending on API use
 - 20 Results ~ 1s (stable connection)
 - 80 Results ~ 2s (stable connection)
- Cannot prevent Maps API nearby search keyword ambiguity
 - Mitigation: Develop our own filtering system





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