Stevens Institute of Technology
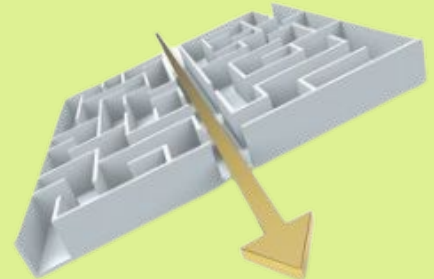Anjali Paliwal, Kristin Kim, Gavin Snyder, Andy Molla

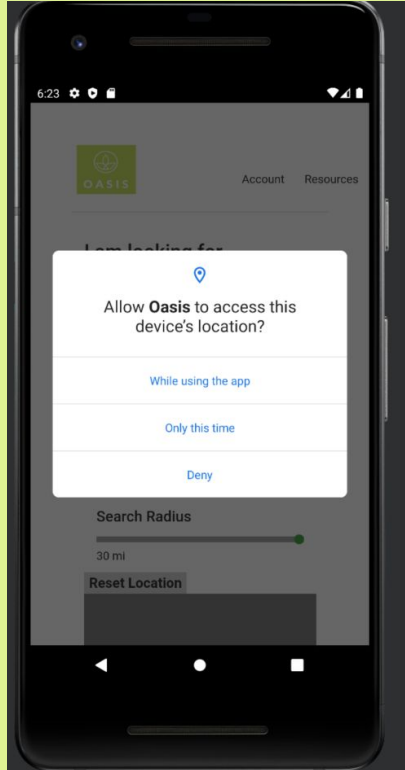# How the Problem Statement Changed

No change since Demo 4:

"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 and local governments instead of just women/shelters.

Demo!

I am looking for...

Women's Shelters

Domestic Violence Shelters

Homeless Shelters

that...

Allows Pets

Allows Children

Offers Meals

Offers Showers

Requirement and Project changes from D1-D5

D1-D3

- Stakeholder requirements: simplicity and transparency
  - Focused on these during web app development
- Advertise project to shelters, request grants and donations

D4-D5

- User requirements: Portability
  - Led to mobile app expansion and heavy UI changes
- Advertise project to local governments, perceive shelters more as users than customers
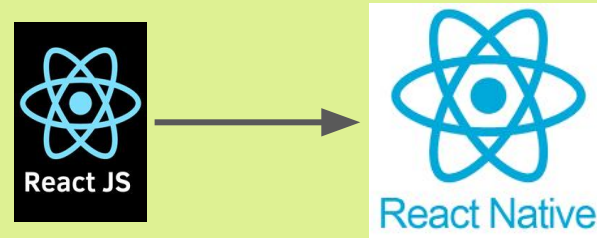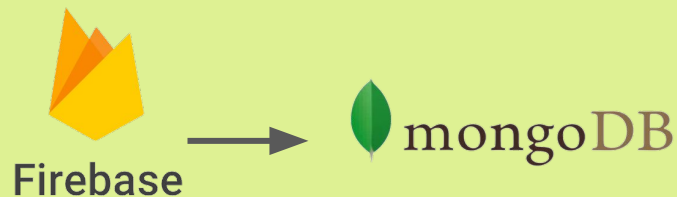
Life Cycle lessons Learned
Platform changes from D1 to D5

Life Cycle Lessons:

- Conduct more research before deciding on a framework (React is very finicky)
  - uses Native components instead of using web components as building blocks for high maintainability & reproducibility
- Prior planning for do-to lists and meeting time
  - Not much gets done on vacation

Platform Changes:

- Switched to MongoDB for D3 (Database)
  - Technical issues, performance, security
- Switched to React Native Web for D4 (Framework)
  - Mobile expansions, maintainability

Challenges

- Incompatible rendering methods (technical debt!)
  - Fall 2021: React/HTML DOM
  - Spring 2022: React Native Web
    - Complicated client-side JS

- Architecture
  - React/Firebase aren't very compatible, which is why we switched to Mongo
  - Setting up web server/backend after client side development progress

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