MemLoc
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Abirami Patchaiyappan
Alexandra Luther
Mythili Karra
Surya Rani
Case Delst

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Introduction

MemLoc is a location-based todo list app. It reminds you based on location, time, and date.

Motivation:

- **Mutual desire** on wanting to use the app ourselves
- Exciting use of **real-world data** and **API's**
- New **technology** to play with

Background:

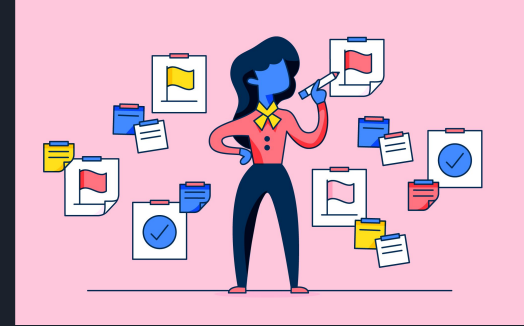- We wanted an app that reminded us exactly when and where we needed it

Goals

1. To build a functional location-based TODO list.
2. Learn a new tech stack
3. Learn and practice SCRUM
4. To learn and master new languages and technologies
5. Work well together with good communication

Biggest challenges/accomplishments

Challenges:

- Creating an intuitive and appealing UI from scratch
- Integrating real time location data with frontend state
- Integrating all of the API's smoothly into the application
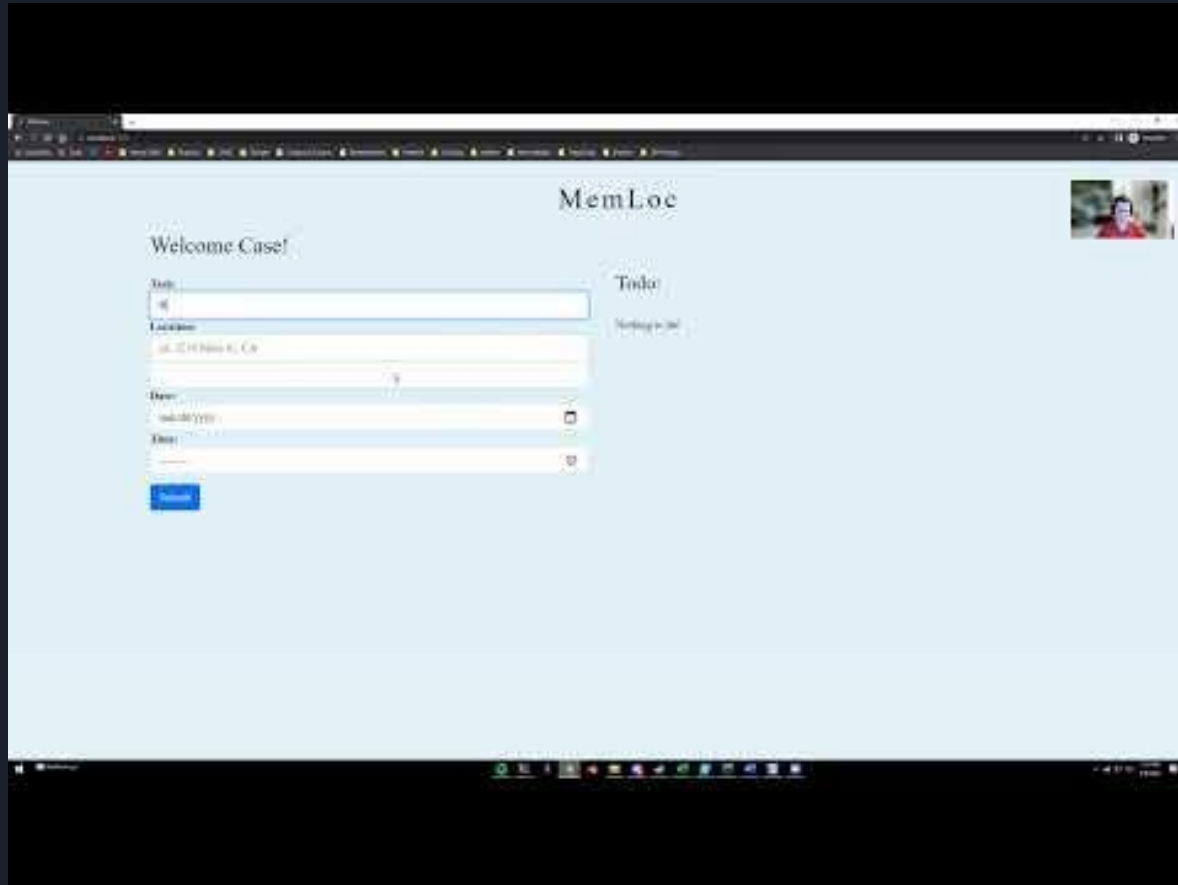- Learning the new languages and technologies

Accomplishments:

- Learned a lot of SCRUM, Agile, and general software development
- Implemented all of the tools and technologies necessary
- Built it!

Demo

System Overview

MemLoc System Diagram
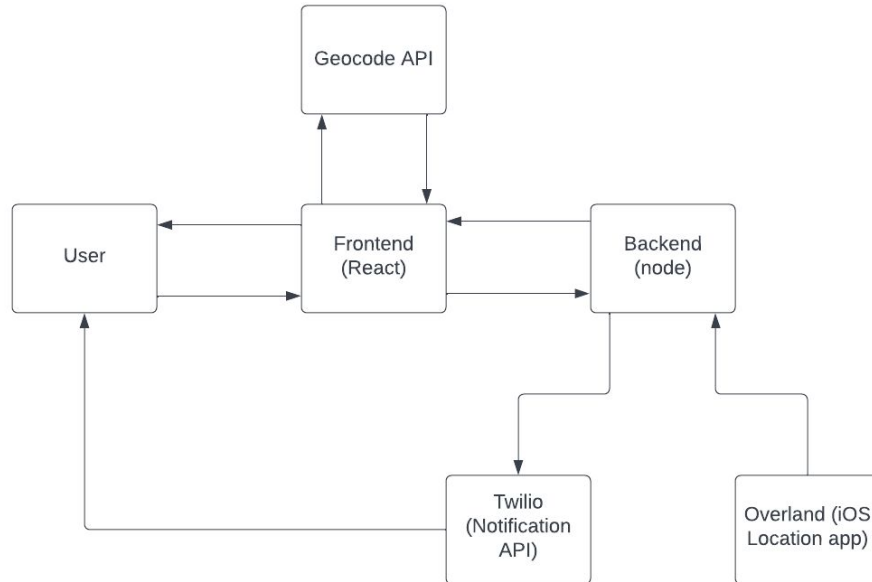
Technologies used

- Javascript
  - React (frontend)
  - Node (backend)
- Overland (3rd party iOS coordinate app)
- Twilio (notification SaaS)
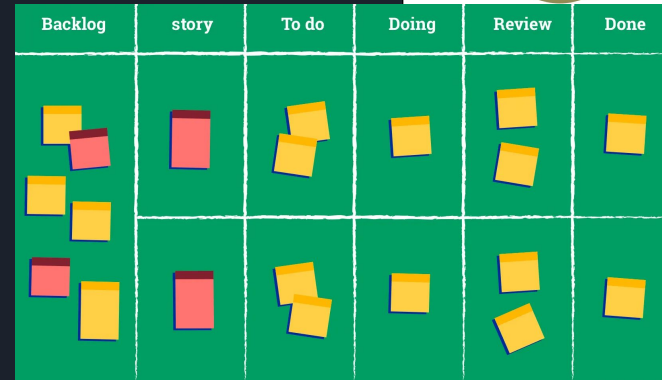- Geocode(location lookup API)

Project Management Techniques

- Task breakdown
  - User stories + tasks
  - Points + time estimates
  - Priority
- Regular Scrum meetings
- Scrum board
- Layer by layer approach
- Review

The Scrum Values

(Gunther Verheyen – Ullizee-Inc)

| Backlog | story | To do | Doing | Review | Done |

Liked/Didn't like

Enjoyed:

- Learning new technologies
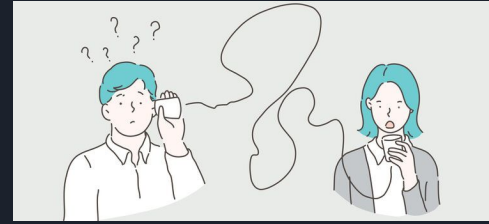- Working with team members

Didn't Enjoy:

- Road blocks

Lessons Learned

- What worked?
  - Regular communication
  - Documentation
  - Setting reasonable goals + Prioritizing
- What didn't work?
  - Saving tests until the end
- What we wished we had done
  - backlog tasks (DB)

Questions?