



MemLoc

03/06/2022

Abirami Patchaiyappan
Alexandra Luther
Mythili Karra
Surya Rani
Case Delst

03/06/2022

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

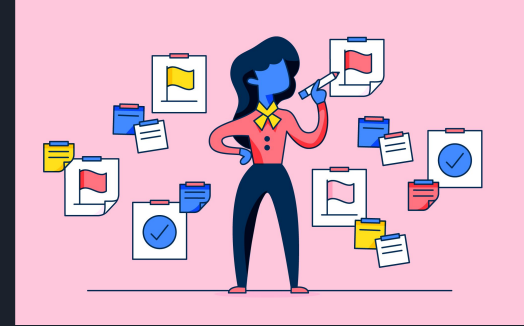
THINGS TO DO:

- ☐
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐



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

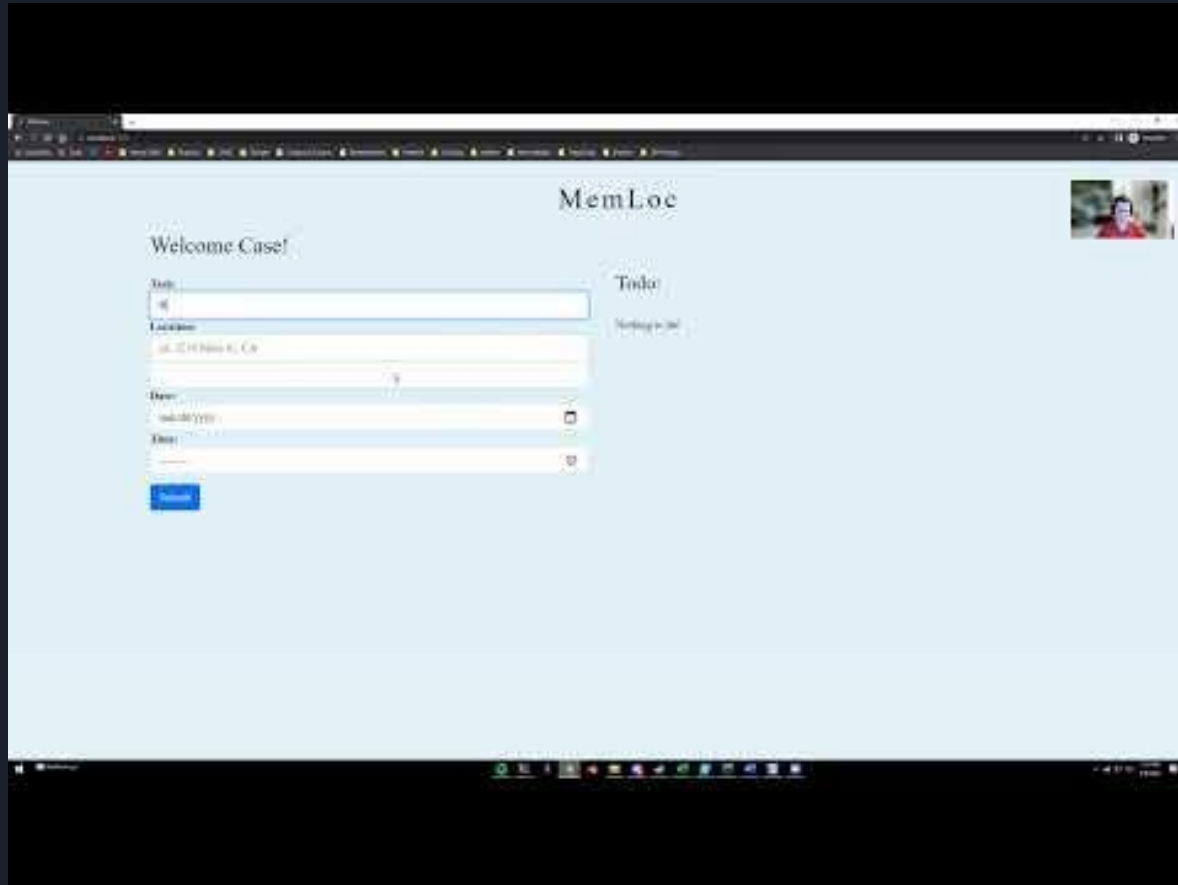


Accomplishments:

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



Demo



The screenshot displays a web browser window with the MemLoc application. The browser's address bar shows a URL starting with 'localhost'. The application's header includes the title 'MemLoc' and a user profile picture in the top right corner. The main content area features a 'Welcome Case!' message. Below this, there is a form with several input fields: a 'Date' field containing '01', a 'Location' field containing '100, 100, 100, 100, 100', a 'Date' field containing '01/01/2020', and a 'Time' field containing '10:00'. A blue 'Submit' button is positioned at the bottom of the form. To the right of the form, there is a 'Todo' section with the text 'Nothing to do!'. The browser's taskbar at the bottom shows various application icons and the system clock.

MemLoc

Welcome Case!

Date: 01

Location: 100, 100, 100, 100, 100

Date: 01/01/2020

Time: 10:00

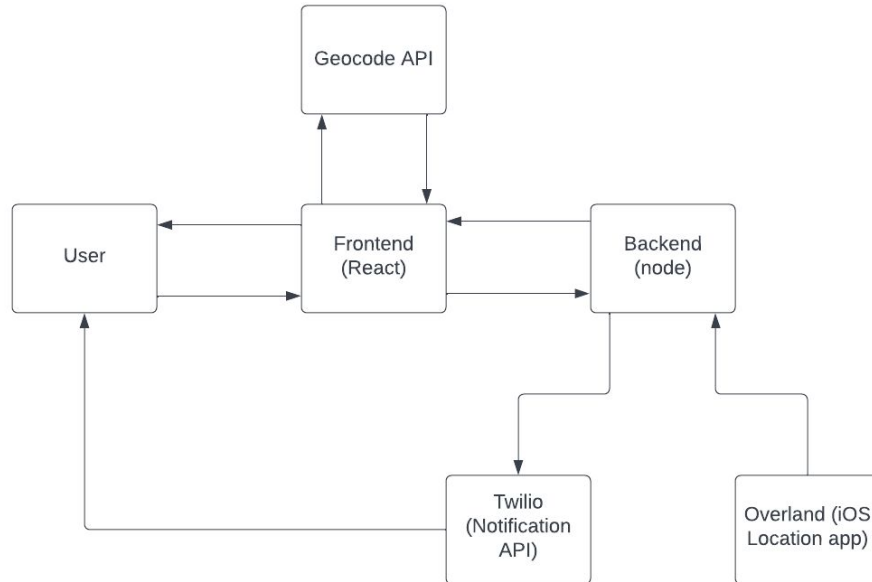
Submit

Todo: Nothing to do!

[Youtube Link](#)

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)

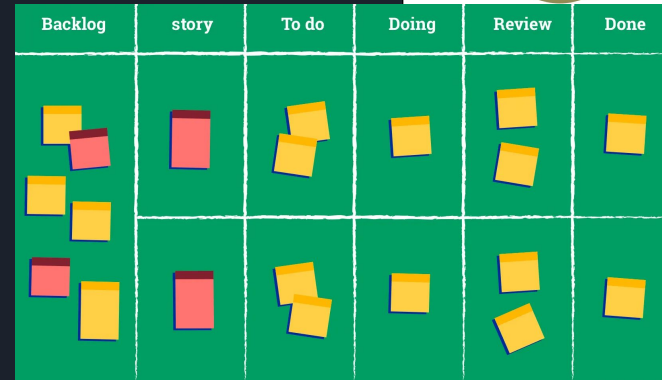
Project Management Techniques

- 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)



Liked/Didn't like

Enjoyed:

- Learning new technologies
- Working with team members



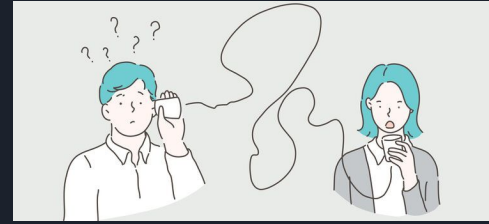
Didn't Enjoy:

- 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?

