

CS405 Project- Birthday Reminder App

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Intro & Problem

Birthday Reminder App Introduction

Birthdays are often some of the most important days, and with your average day-to-day responsibilities it is easy to forget these special days. The question is; Is there a way to reduce the number of special days you may miss due to the hustle and bustle of life?

The birthday reminder app will do just that. On days where it is someone's birthday, the app will provide you with a reminder along with other information, such as a celebration they may have.

Solution & mVP

Solution and mVP

Solution:

- A standalone React web app that will allow users to add birthdays for people that they know and get notifications when their birthday is arriving.

Our mVP is defined as:

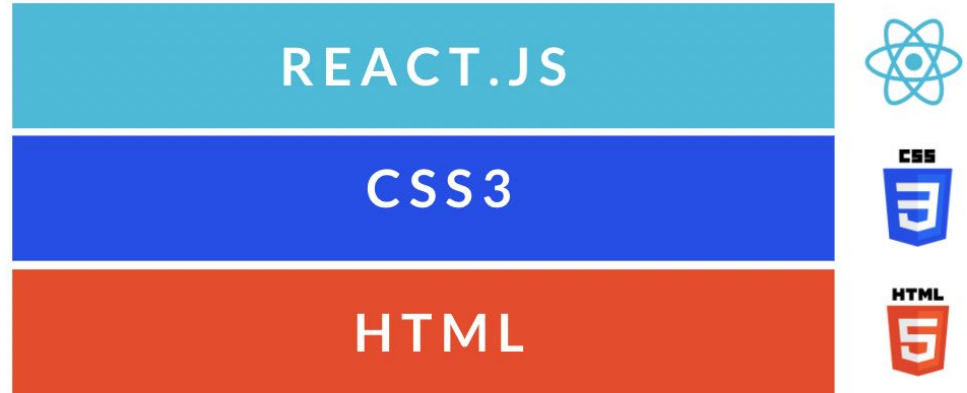
- Runs on Localhost
- Loads page fully with JS animations
- Allows the user to clear all persons from the hardcoded list

A minimum viable product (MVP) is a development technique in which a new product or website is developed with sufficient features to satisfy early adopters. The final, complete set of features is only designed and developed after considering feedback from the product's initial users.

Tools & Technologies

Tech Stack

- Standalone react.js app built on basic HTML with CSS3 for design
- Client side only project, we didn't want to choose one that required a backend and having to send data over the wire.



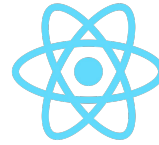
Tools and Technologies

How it works:



Tools & Technologies:

npm

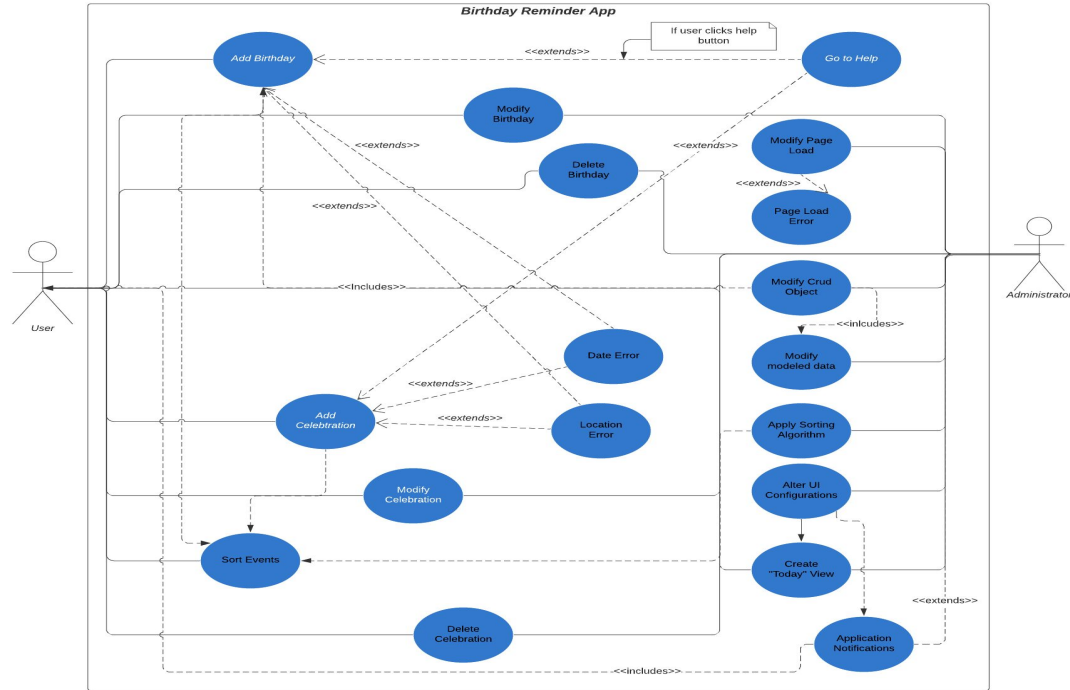


Design Overview

Use Case

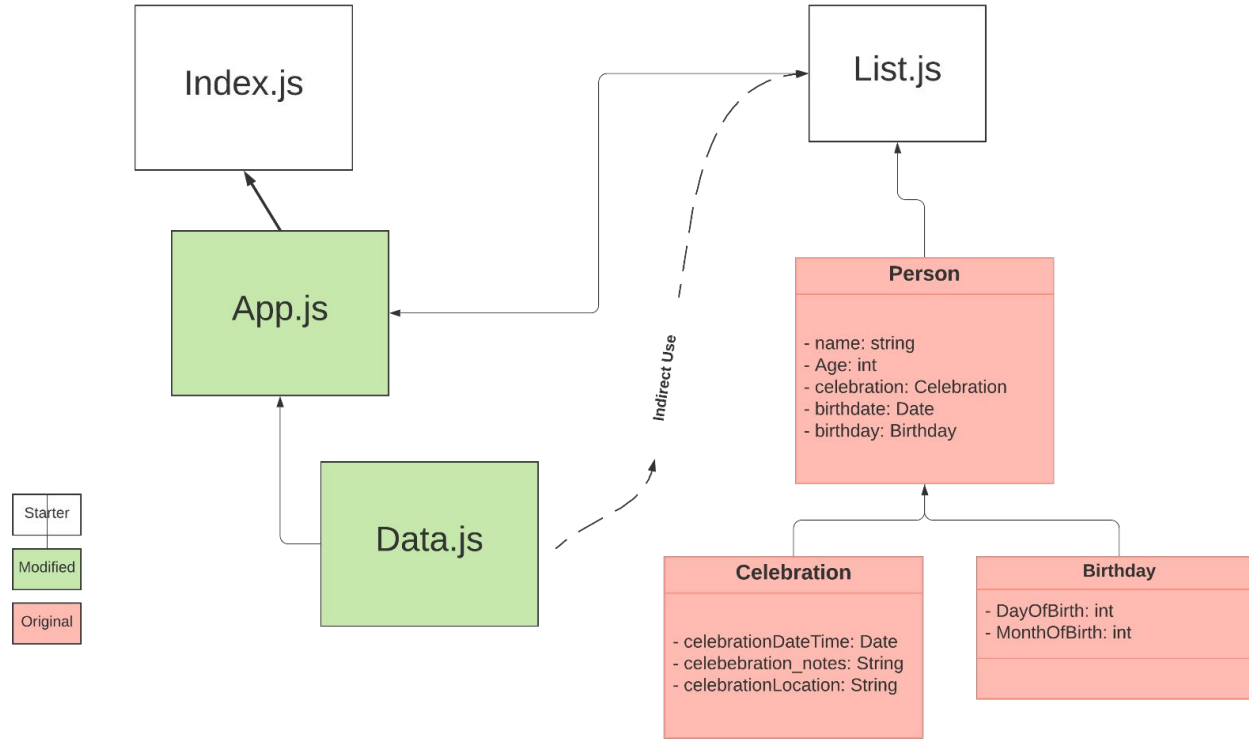
Birthday Reminder App Use case diagram

Ramon Lavender | November 28, 2021



Birthday Reminder UML v0.0.3

Ramon Lavender | Rodrick Bishop | Kristin Barrett | December 4, 2021

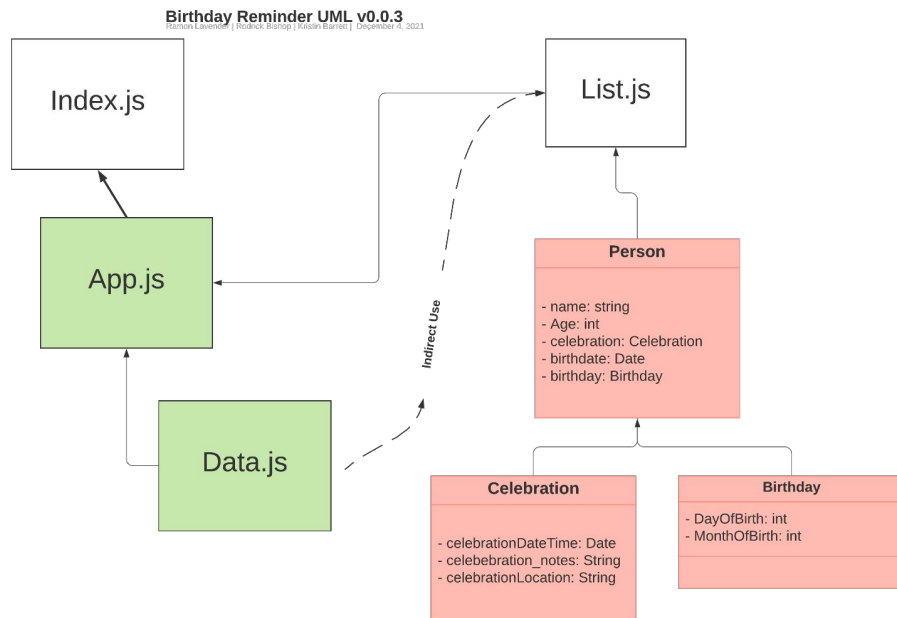


Larger view of reminder app UML

Code Implementation & Overview

Show me how this thing works?

- Person is our main data class
 - A person has a Celebration and Birthday
- Celebration is used for celebration data, time and notes.
 - Future plans are to add location and launch external link when clicked
- Birthday just chronicles day and month of birth
 - In the future, will contain full birthday with added logic for processing



Project Files & new features

- React works with HTML by allowing us to run functions inline with the markup
- Our entire app is ran by `App.js` and the mvp uses a hardcoded list from `List.js` to populate the `List` element returned in `App.js`
- Upcoming features are the ability to CRUD people, their birthday celebrations, as well as toggle night mode

```
return (  
  <main>  
    <section className='container'>  
      <h3>{people.length} birthdays today</h3>  
      <List people={people} />  
      <button onClick={() => setPeople([])}>clear all</button>  
    </section>  
  </main>  
)  
}  
export default App
```

Excerpt from App.js

Project Workflow

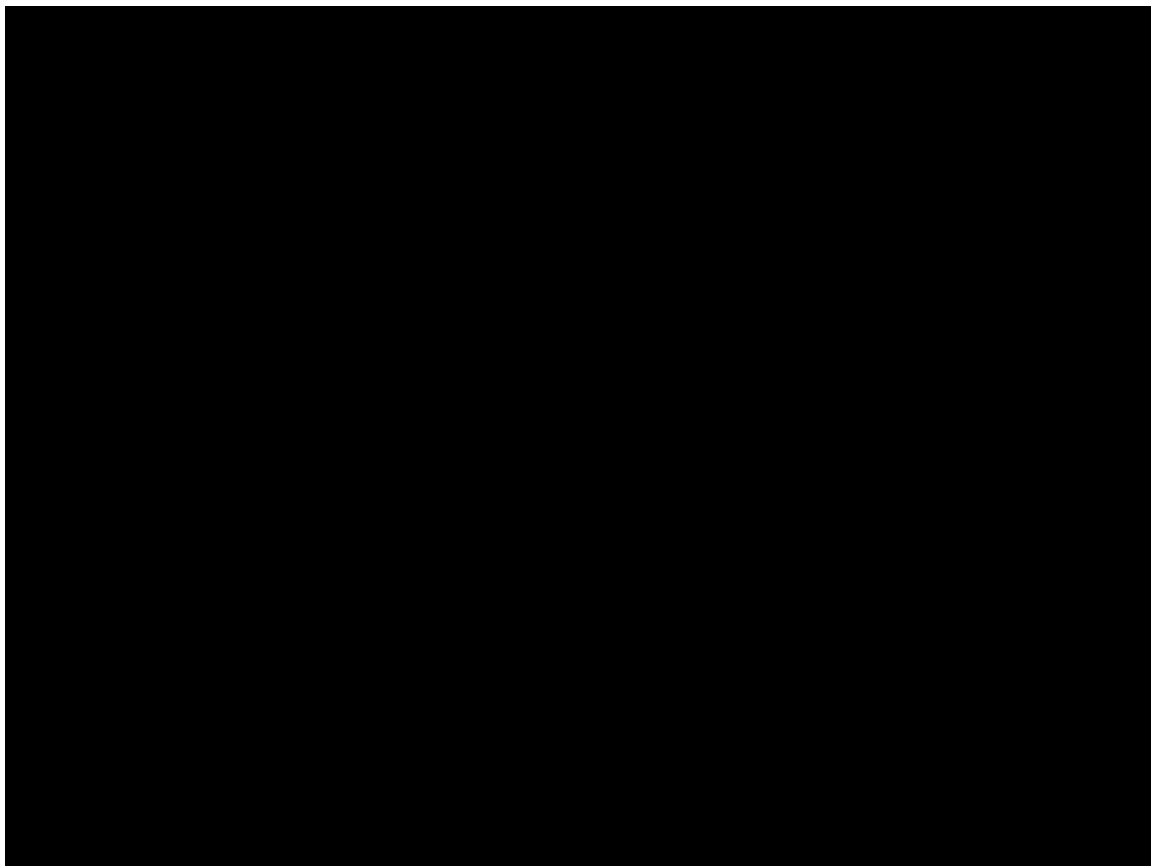
The Process



The Method To The Madness

- Used git & Github for version control
 - Created feature branches that would be merged into main upon completion and peer review
 - Tagged releases for stable milestones
 - Kept changelog to summarize changes between releases
- Used Kanban boards & workflow for task synchronization
 - Miniaturized tasks and team members picked from the backlog
 - Team was able to move consistently in the right direction from todo → done

Project outcome & Demo



Demo

Learnings

Roderick-

We chose this project because we wanted to challenge ourselves and take a leap of faith with a new programming language and newer development concepts learned in CS405. Overall I am excited to see what else we'll build in the future with JS!

Kristin-

This project helped us all gain a lot of insight into the basic building blocks of most applications. It also introduced me to development tools and the overall process of app development. This creative and informative process was very interesting yet challenging. With learning new concepts we were forced to expand our knowledge and implement prior experience with new information. This project helped me become more comfortable with certain aspects of software engineering and development.

Ramon-

Due to my expertise being in cybersecurity, creating this project in a language is typically for web development was a challenge. I had to go out of comfort zone and learn new methods, tools, and techniques.

Thank you!