Cheryl Campbell
Capstone Planning Document
WATS 4030 Winter 2019

CAPSTONE PROJECT PLANNING DOCUMENT

BABY BIRTH DATE POOL APP

Introduction

It's an exciting time when a couple is expecting a baby. And since it is usually unknown what date the baby will be born, it's fun to guess with a little friendly competition in the form of a baby date guessing contest. This can include guessing the birth date, baby's weight, sex, name, etc. As of yet, it is hard to find a way to track such a pool other than using Excel or some other type of chart that is maintained by a person overseeing the contest. I would like to build an app that makes it easier to keep track of such a contest. I will be building a "Baby Birth Date Pool" app which will be a web and mobile app that allows each contestant to enter their information and guesses which will be saved and viewable on the app and updated in real time.

Example of contest information chart:

Contestant	Email	What day will baby be born?	How much will baby weigh?	What will the baby's name be?
Jane Doe	jane@email.com	03/25/2019	7.5lbs	Rainne

Features

This will be a single page app containing a button used to bring up a form for contestants to enter their name, email address, and guesses. The information will then be populated into the chart on the app, viewable for all visitors to the page.

Style

The styling of the app will follow the same kind of styling popular with baby shower themes, including soft, pastel colors, images of baby related items such as toys and blankets, etc. There will some sort of header or background image and the contest chart.

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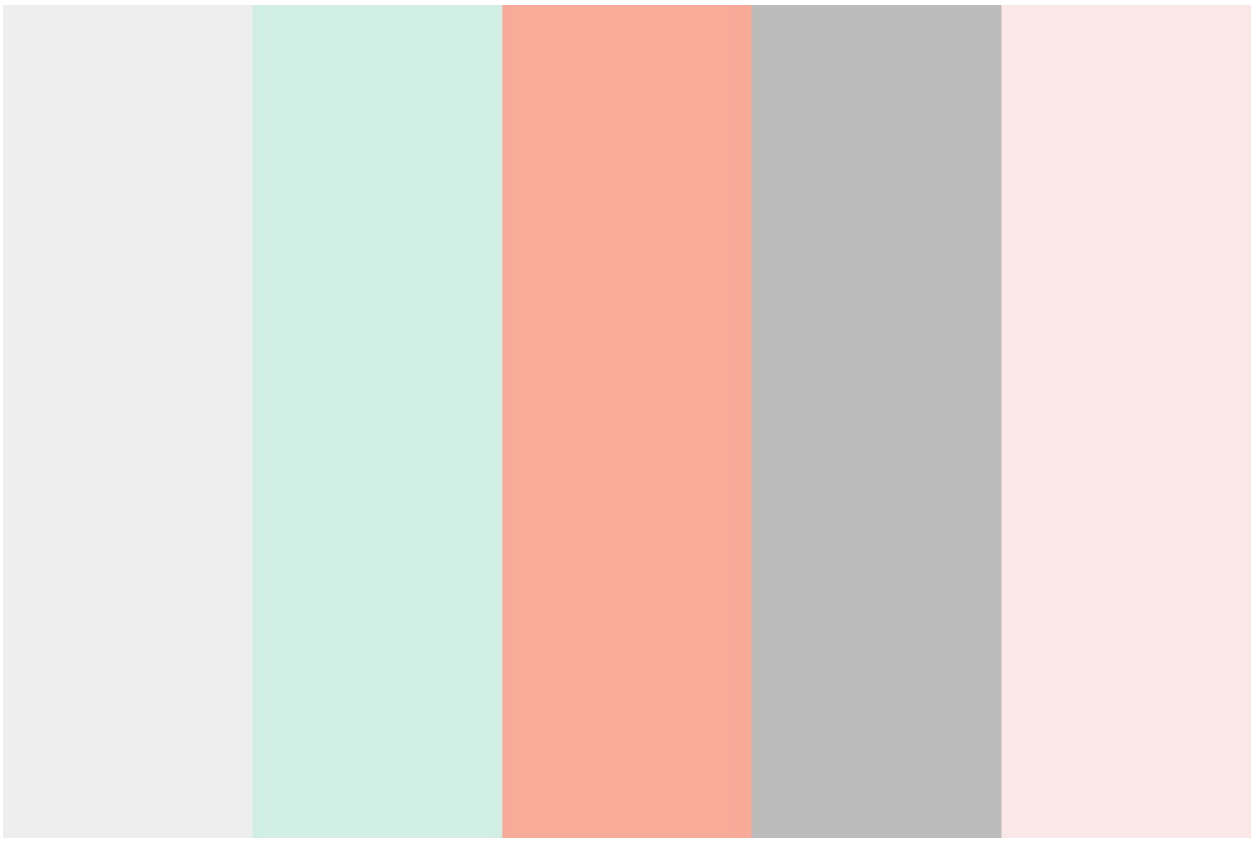
Sample Color Palette



Technologies

- JavaScript will be used for event handling when a user interacts with the app including entering information and to populate it on the screen.
- Vue.js will be the framework that I will use to build the app.
- Firebase will be the database program I will use to build database side of the app to store data and for the app to make an API call to retrieve the data.
- Git Hub Pages will be used to deploy and host the app.
- Google Analytics will be installed on the app to track user behavior.

Task List

1. Familiarize with Firebase
2. Update to Vue 3.3 (migrate old project, update to 3.3, use old project as shell for app)
3. Scaffold App
4. Configure Firebase database
5. Build API
6. Integrate API into the app
7. Style the app
8. Add accessibility features
9. Make app responsive
10. Test Usability
11. Test app
12. WAI-ARIA checking
13. Deploy

Timeline

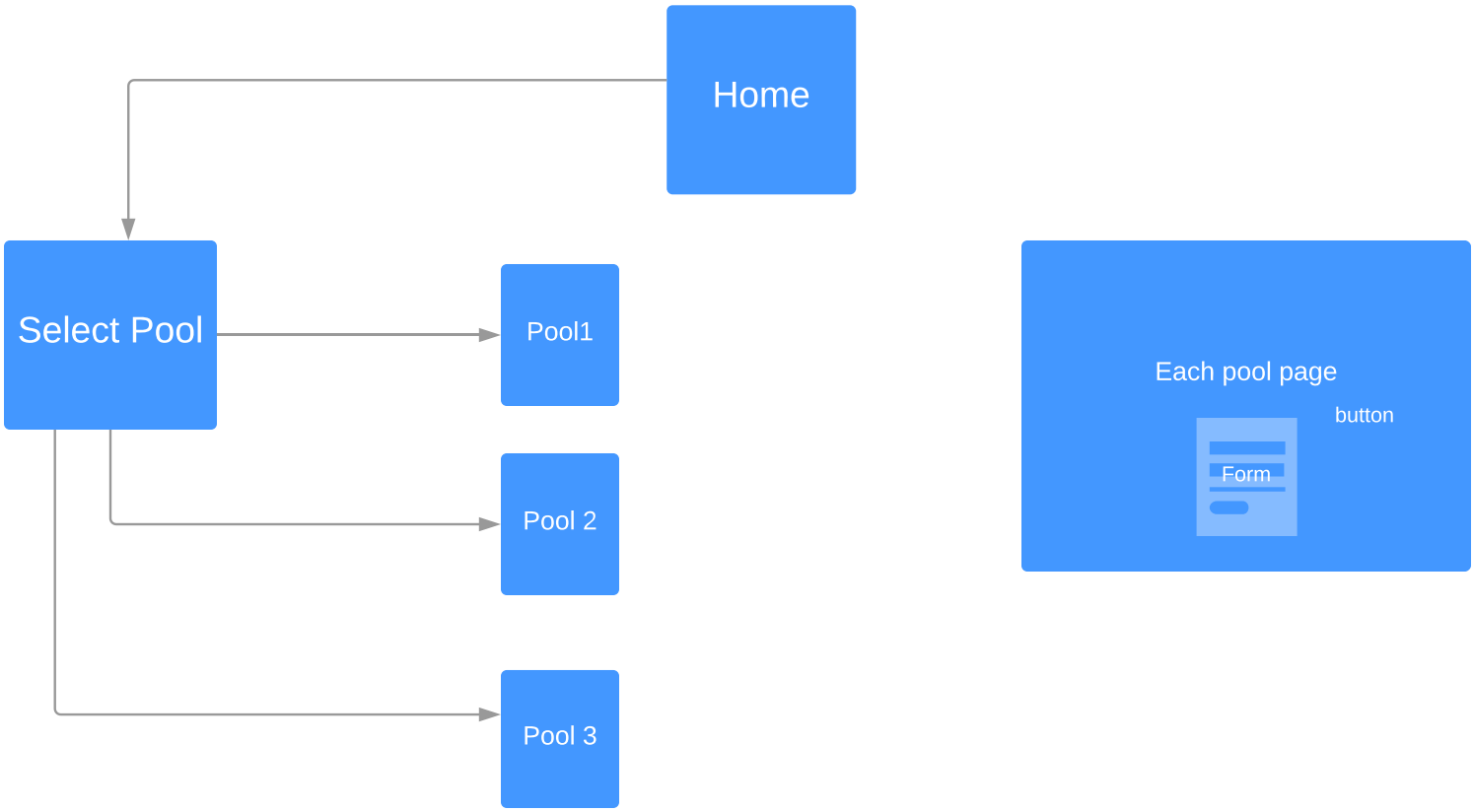
Week 5	Vue 3.3, Scaffold Project
Week 6	Some form of database ready
Week 7	API built and ready
Week 8	API and app working
Week 9	Styling, Accessibility
Week 10	Test, Finish up and deploy!

Potential Risks

I will be using Firebase for the first time so there will be a period of getting familiar with it raising the risk of setback due to something taking longer than expected because as of yet, I don't know what amount of time to expect it to take. I will be learning how to build the API using Firebase and that is subject to trial and error as well so it will be imperative to figure out these technologies and how to make the app work as soon as possible.

Accessibility

Will use WAI-ARIA attributes to adhere to accessibility requirements.


Home
Select Pool
Pool1
Pool 2
Pool 3
Each pool page
button
Form