

Project Methodology

Overview

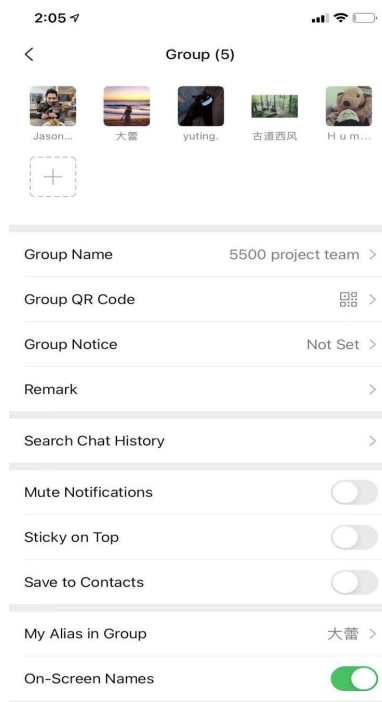
This document includes how the team implemented Agile as our software methodology for the project. For our project, we have 3 sprints which correspond with our 3 milestones. In each sprint, we follow plan-design-build-test-review to conduct our project. The following part clearly documents the communication tools we use, each milestone tracking and backlog stuff.



Communication Tools

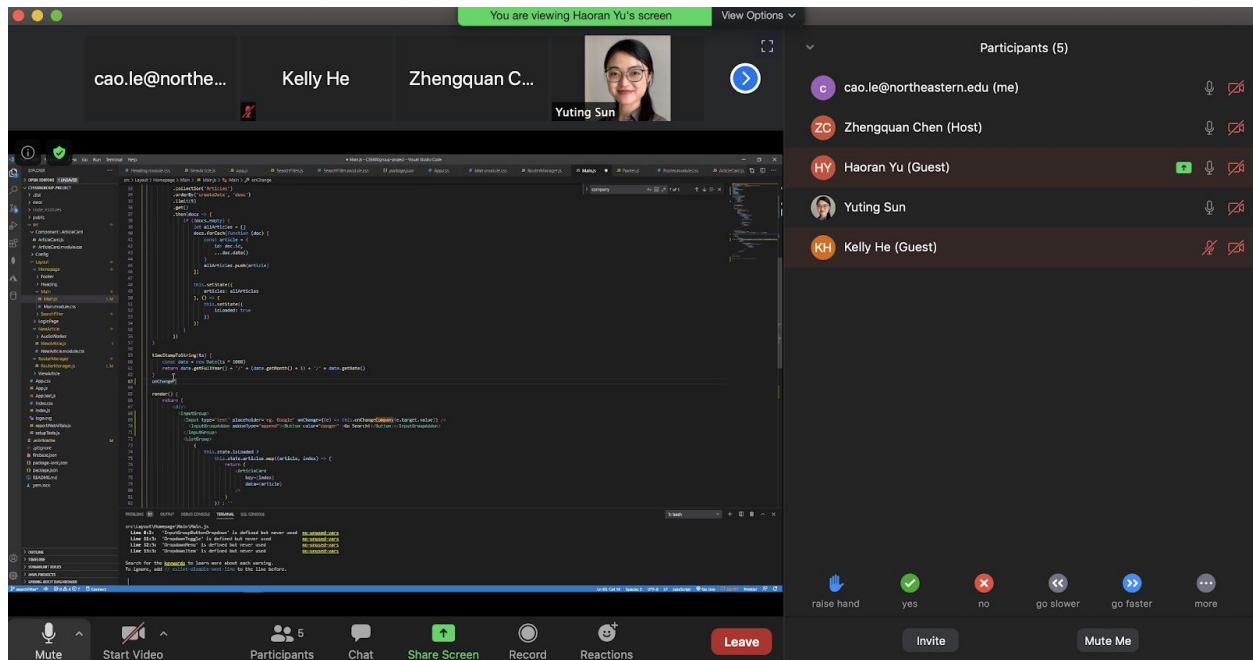
1. WeChat

We form our Wechat group at the beginning of our project and we use it as our communication tools to upload related files, report bugs and share daily updates.



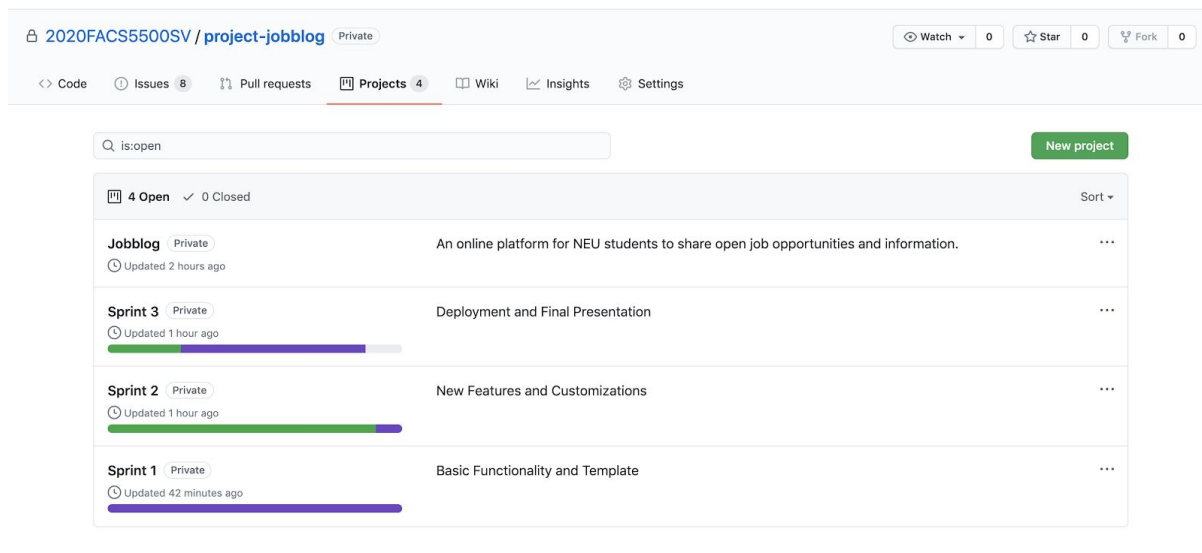
2. Zoom

During the development process, we had regular Zoom meetings to deal with more in depth problems that we faced during the development. At the same time, we also discussed our next step or plans for the following days.



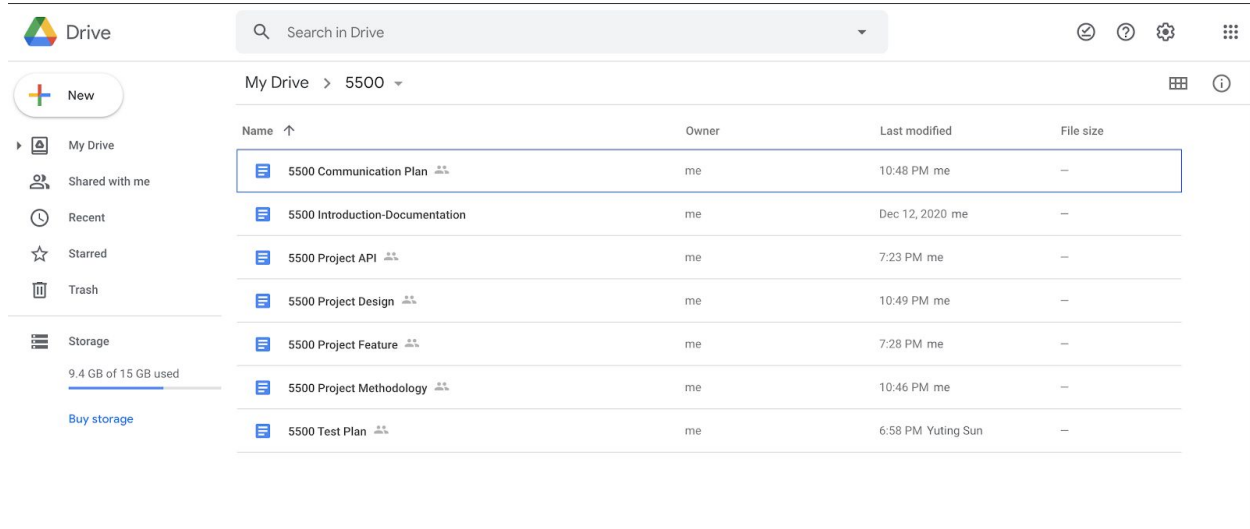
3. Project Board

Project Board is another convenient tool for us to use during our daily standup, backlog grooming and sprint planning. We divided the project into three Sprints which focus on different stages of the project. In every Sprint, we broke our big goal into measurable and doable tasks. It helped us to manage the project properly and conveniently.



4. Google doc

Google doc is a very convenient tool we use to collaborate within the team. We record our communication plan, project API, project design, project feature, project methodology, test plan and so on here. It lets all the team members edit and see the updates.



Milestone Tracking

Milestone ONE

Goal: Basic Functionality and Template

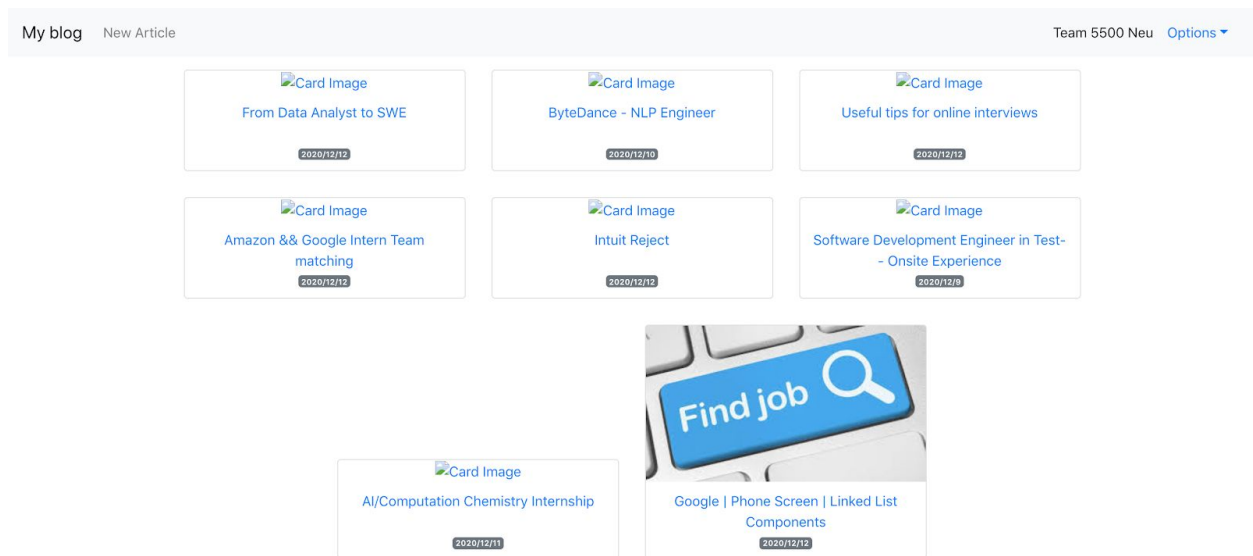
Time Duration: 11/12/2020 to 12/04/2020

Task Completed:

- Finished project and repository Setup
- Built an initial page for the project
- Added Firebase config and ready to connect Firestore
- Created a Google team account for Firebase
- Connected front end data with Google Firebase
- Added Router and Link from react-router-dom
- Used location state for passing data
- Deployed project with Firebase Hosting
- Received article from URL
- Created new article with React-Quill
- Built login page
- Assigned firebase custom claim by the express app
- Implemented Role checking by Firebase custom claim
- Fixed bug: this.props.auth not updated after login
- Fixed bug: new article redirects to login page even if the user is already logged in
- Uploaded an Article to Firebase Firestore

- Uploaded image to firebase storage
- Uploaded image to react quill
- Added text to speech audio to React quill
- Added project communication plan

Result: During this stage, we got more familiar with web development with the use of React and Firebase. Most importantly, we finished basic functionalities of our job blog website. For instance, users can login and logout through Google single sign on. Users can publish a new article and view articles.



Google | Phone Screen | Linked List Components

I got this question from Google Phone Screen interview. Hope it helps!

Given a double linked list, and a set of node pointers, find how many connected components in the set.

For example, if a double linked list is: 1-2-3-4-5 and set contains pointers to [1, 2, 5], this set contains 2 components, one is [1 2], second is [5] since [5] is disconnected. The set [1 2 3 4 5] contains only one component since everything is connected.

<https://leetcode.com/problems/linked-list-components>

Milestone TWO

Goal: New Features and Customizations


Time Duration: 12/05/2020 to 12/12/2020

Task Completed:

- Took out admin role check
- Removed job post pictures in homepage
- Redirected to homepage after clicking submit button
- Added job type and company tag
- Showed author name for each article
- Showed tags for each article
- Added delete logic
- Changed number of article rendering
- Changed article card format
- Sorted article by create date
- Updated homepage display including header and footer

- Added edit logic
- Added filter in homepage to support searching with keywords

Result: During this stage, we worked on tailoring our website to our needs. Through consulting with TAs, discussing with teammates and asking feedback from classmates, we fixed some bugs and added more features to make it more user friendly.


Welcome to Northeastern Job Blog!
🚧 Draft New Job Post
Team 5500 Neu
⚙️ Options ▾

Type company name here, eg.'Google' The page will auto-update!

Summer 2021 Intern - Software Engineer - Tableau CRM
 Internship | Salesforce | Lei Cao
2020/12/13

Software Application Engineer Intern
 Internship | Workday | Lei Cao
2020/12/13

Doordash New Grad Interview
 New Graduate | Doordash | Lei Cao
2020/12/13

How did I find a software engineer internship (MUST WATCH)?
 Internship | Other | Lei Cao
2020/12/13

Dropbox Internship Phone Interview
 Internship | Dropbox | Lei Cao
2020/12/13

Microsoft SDE Intern
 Internship | Microsoft | Kelly He
2020/12/12

IMC Reject 2021 Role
 New Graduate | IMC | Kelly He
2020/12/12

Intuit Reject
 New Graduate | Intuit | Kelly He
2020/12/12

Google Onsite Interview
 Internship | Google | Kelly He
2020/12/12

Team Members
 Zhengquan Chen, Lei Cao
 Yuting Sun, Kelly He
 Haoran Yu

Project Tech Stack
 React, ReactStrap
 Redux, Bootstrap
 Firebase

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New Article

Article Title

Enter title here...

Article Content

text

Select...

Insert Audio

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Article Setting

Select Job Type

▾

Enter Company Name

eg. Google

Feature Image

Choose File

No file chosen

Submit

Team Members

Zhenguan Chen, Lei Cao
Yuting Sun, Kelly He
Haoran Yu

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Got rejected in final round which was a behavioral interview for not having experience (I interviewed for a new grad role). They expect you to have experience for a new grad role.

Rounds:

First Round:

HackerRank test to implement a simple calculator and evaluate an expression.

Second Round:

2 interviews.

Island problem and sqrt problem

DP problem to find number of ways to reach a position from a starting position. The matrix also has obstacles.

Third Round:

Implement a game like tic tac toe

Behavioral Round with two people

I hope they improve their rating systems for evaluating candidates.

Hope it helps.

Team Members

Zhenguan Chen, Lei Cao
Yuting Sun, Kelly He
Haoran Yu

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Milestone Three

Goal: Deployment and Final Presentation

Time Duration: 12/13/2020 to 12/14/2020

Task Completed:

- Tested the functionality
- Added Unittest
- Uploaded posts to enrich the database
- Finished presentation slides
- Created Live Demo
- Uploaded all used docs
- Added more code comments
- Review the whole project with team

Result: During this stage, we worked on wrapping up the project which included finishing all tests, uploading required documents, preparing for final presentation and so on. Before the presentation, each team member went through all the files to make sure everything is fine.




```
Test Suites: 6 passed, 6 total
Tests:       8 passed, 8 total
Snapshots:   0 total
Time:        6.573 s
Ran all test suites.
```

```
Watch Usage: Press w to show more.█
```

Backlog

In this part, we record our group decisions, user stories and issues that we had during the development process in each Sprint in our project board. Please refer to the [board](#) for more detailed information in each sprint. In each sprint backlog, we clearly document our discussion through the process.

[User Stories]: features need to be implemented

[Decision]: major decisions about the project

[Issues]: bugs need to be dealt with immediately