

Project 01 Retrospective and overview

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Github Repository:- https://github.com/Prayash777/CST438_Project_01_Group6

Overview

What is the application and how does it function?

-The application is for tracking habits which makes use of [Pixela](#) API.

-We used [Color scheme](#) for the color guide.

Introduction

How was communication managed

-The communication was done mostly through slack while also utilizing the class and after class time.

How many stories/issues were initially considered

-31 issues have been created throughout the week until today.

How many stories/issues were completed

-26 issues have been completed.

Team member retrospectives

Include a link to your pull requests

Prayash Raj Singh

Pull Requests:-

https://github.com/Prayash777/CST438_Project_01_Group6/pull/41

Issues:-

https://github.com/Prayash777/CST438_Project_01_Group6/issues/4

https://github.com/Prayash777/CST438_Project_01_Group6/issues/23

https://github.com/Prayash777/CST438_Project_01_Group6/issues/16

What was your role / which stories did you work on

I worked on storing information locally by utilizing SQLite. I worked on authentication user and creating users and I used asynchronous storage to accomplish it. I also partially worked on the display of the information since the display was not working properly for the specific users so, I had to implement a function which checks whether which information to display based off the user token.

What was the biggest challenge?

First, the biggest challenge was for me to set up the project and learn the React-Native from scratch. Learning the github pull requests and issues was difficult for me.

Why was it a challenge?

-I was having difficulty running my project while my teammates had already progressed so much. Since I also did not have any experience with Reach-Native before so, it was a challenge for me to work on the project. ChatGpt helped me a lot with understanding github's functionality.

How was the challenge addressed?

-I worked my way through by comparing the file structure and dependencies of my branch to the main. And I found the catch of them not matching which helped me set up the project and dependencies right way. Even though I did not have any experience with

React-Native, I was familiar with web programming and scripting languages so, that helped me match the structure and be familiar with React-native components.

Favorite / most interesting part of this project

-The most interesting part was the API itself and our layout which is github-like contribution style. Also it was fun to work on the database query for validating users. I liked how the async storage works too to set and get the item which makes it easy to pass the information among different pages.

If you could do it over, what would you change?

-I would make sure to focus on the file structuring. I would not ignore the process of the installation of packages. Also, I would have added the edit user feature to update the information.

What is the most valuable thing you learned?

I learned to stay patient and focus on the process to build resilience. When I could not even set up the project, at first I was thinking that I would not be able to contribute to the project. But with time, I kept the progress going from running the project to contributing to it.

Noah Mckegney

Pull requests:

[Pull Request 1](#)

[Pull Request 2](#)

[Pull Request 3](#)

Issues

- [create sqlite database in app · Issue #5 · Prayash777/CST438_Project_01_Group6](#)
- [Main page layout · Issue #11 · Prayash777/CST438_Project_01_Group6](#)
- [Linking SQL database with sign in and signup forms · Issue #25 · Prayash777/CST438_Project_01_Group6](#)
- [Reconfiguring and styling main page · Issue #26 · Prayash777/CST438_Project_01_Group6](#)
- [Conceptualize how our API will integrate with tracking habits · Issue #27 · Prayash777/CST438_Project_01_Group6](#)
- [note: Use Jest for tests · Issue #29 · Prayash777/CST438_Project_01_Group6](#)
- [Make database queries independent of scenes · Issue #31 · Prayash777/CST438_Project_01_Group6](#)
- [Setup Jest Tests for User database · Issue #40 · Prayash777/CST438_Project_01_Group6](#)

Role/stores you worked on

I worked on creating the basic skeletal layout of the app's home page. I created the sql database and queries to insert new users' credentials, searching the database for a particular user, and logging the database. I added jest support and tests for inserting a new user in the database.

What was the biggest challenge?

Adapting to collaboration on a single repository with numerous teammates proved to be a challenging experience. Understanding some of the syntax that went into creating a React native project in javascript was also difficult.

Why was it a challenge?

I found collaborating to be challenging, because at first I did not understand how collaborating on a single codebase would work without getting a massive amount of conflicts. I found some of the project's syntax to be difficult to understand because we used a lot of advanced javascript and framework specific syntax features that I was not used to.

How was the challenge addressed?

I have been using github for my own personal repos, so I was familiar with the commands to push and pull code, but all my changes were always added synchronously and I always worked on the main branch. With many people working on the same project at the same time, changes were not being added synchronously and there were many branches within the project. That was something I was not used to, and had to adapt to in order to function effectively. To address these challenges I practiced using branches in a dummy project, I always pulled from the remote main branch before I pushed my changes, and I suggested to our team that we should commit and submit pull requests often to reduce the amount of changes being added to the code base at one time. I addressed the challenges I was experiencing with the project's syntax by reading documentation and watching tutorial style videos.

Favorite / most interesting part of this project

My most favorite part of the project was seeing how all our individual contributions came together to make a functional piece of software. A lot more gets done when there are a lot of people working on the same thing. I have very little experience with working in a team, so I am glad to have the opportunity to collaborate.

If you could do it over, what would you change?

If I could do it all over again, I would try to make more contributions with smaller changes. I think this would help me get more in the rhythm of making changes, creating branches, pushing to the main branch, merging code, developing features, and creating issues that are cohesive with the project's growth.

What is the most valuable thing you learned?

I think the most valuable thing that I learned by working on this project, is getting more comfortable with using git features and understanding the features github offers to collaborate on a single project as a team.

Ethan Bleier

Pull requests:

[#8](#), [#9](#), [#10](#), [#18](#), [#19](#), [#20](#), [#22](#), [#33](#), [#35](#), [#36](#), [#39](#), [#47](#), [#51](#)

Issues:

[#2](#), [#3](#), [#5](#), [#6](#), [#17](#), [#28](#), [#29](#), [#34](#), [#37](#), [#38](#), [#40](#)

Role/stores you worked on

I worked on many areas in the project. I made the auth directory, and its login and signup files. I made the settings directory and the settings pages. I made the habit directory and its add-habit and edit-habit files, which supports the ability for users to set

and edit a title, description, and the 'day selection' color of their habit. You can also create a blank habit.

I wrote the streak feature (calculated in one line) that takes the tracking data object and casts it to a boolean mask which flips checked days to true and unchecked days to false. Then you can take the length of that array effectively counting how many days in the grid are checked. Then I displayed that number with the fire emoji, which turned out great as a streak feature.

Made a feature where the homepage greeting changes every time you open the app.

What was the biggest challenge?

- Establishing a good work flow, debugging code before being familiar with the errors
- Why was it a challenge?
 - Debugging is kinda hard enough when its in a project/language you're familiar with, so it felt extra hard on this project because I had never made an expo based project before.
 - In the beginning of the project, I did a lot of work on web/forgot to test in Android studio, so I had a ton of work ahead of me to fix that. I kind of assumed that if it worked in my browser it would work on Android. After I got it Android friendly, the workflow smoothed out.
- Favorite / most interesting part of this project

- Finally getting the IDs from the API calls to store in the database
- Getting the habit streak feature working, that was a fun feature to add.
- New to crud conventions in javascript, so had to overcome learning curve
- I'm so bad at styling pages, so using colors.co to easily find good color schemes made me feel like a pro at design.
- If you could do it over, what would you change?
 - I would get the database setup first before starting features that require database calls
 - Looking at more examples in the API docs for new feature ideas. I realized too late that there was some other cool functionality that I could have added to the app, for example setting gradients per day instead of just a binary checked/unchecked block
 - Write more tests– something I'm thinking about for project 2
- What is the most valuable thing you learned?
 - Start work early and document everything; don't just do one commit per PR, do multiple so it is easy to see where code becomes too complex, or check for code smells through this more iterative approach. Essentially, Pr reviewing one big commit is harder than reviewing a PR with a narrative of commits that I can follow.

Ezequiel Reyes-Puerta

Pull requests: [Pull requests · Prayash777/CST438 Project 01 Group6](#)

Issues: [Issues · Prayash777/CST438 Project 01 Group6](#)

Role/stores you worked on

I fixed small details that helped to make the user experience better. I tested the app to find bugs.

- What was the biggest challenge?
 - Understanding the code and the right syntax.
- Why was it a challenge?
 - It was a new language, and my IDE would tell me there were bugs even though the code worked.
 - How was the challenge addressed?
 - I followed the pattern of the existing syntax.
- Favorite / most interesting part of this project
 - Debugging the program and learning the language.
- If you could do it over, what would you change?
 - I would take more time to learn the language at the beginning.
- What is the most valuable thing you learned?
 - To understand everything that you are doing.

Conclusion

How successful was the project?

We didn't make as much progress as I initially imagined we would, but I'm proud of the final product considering our challenges we faced along the way. We accomplished the

initial vision of the app, based on the api we picked out for the idea. Users can sign in/up/out, create habits, edit/delete them. The app looks visually good, too. It is a simple, but useful app.

Biggest Victory

Finishing the project in a good working state that we're all proud of

Final assessment of the project

This project provided great experience to have under my belt. I really like the rapid iterative approach to building and find I work better under those conditions. It was awesome to have so much creative freedom and really make whatever we wanted, and it's cool getting to collaborate on projects with other people and distribute work so it isn't so daunting.