

# Sprint 1 Report (6/1/2024)

## What's New (User Facing)

- \* Feature 1: Button to increment displayed count.
- \* Feature 2: Button to reset displayed count.
- \* Feature 3: UI text description of the project.

## Work Summary (Developer Facing)

During Sprint 1, the team created a plan to communicate necessary functions of a basic, full-stack web application to familiarize the team's developers with libraries and frameworks for the project's use. As such, API endpoints from backend to frontend coupled with data output and input needed discourse. Given the project's individual focus and ephemeral nature, a meeting was unnecessary - communication via instant message application provided sufficient discourse for the development of this simple application.

## Informal Review

Below is an informal summary and showcase of what was developed:  
<https://youtu.be/DchT6JpbnCg>

## Unfinished Work

The getTime function was created in the backend, but due to issues with transferring the data to the frontend via fetch, it was not implemented. However, given that the counter functions all worked, getTime was not necessary to prove full stack communication.

## Completed Issues/User Stories

Here are links to the issues that we completed in this sprint:

- \* <https://github.com/KleinMandolin/CptS322-Project/issues/10>
- \* <https://github.com/KleinMandolin/CptS322-Project/issues/15>
- \* <https://github.com/KleinMandolin/CptS322-Project/issues/16>
- \* <https://github.com/KleinMandolin/CptS322-Project/issues/17>
- \* <https://github.com/KleinMandolin/CptS322-Project/issues/18>
- \* <https://github.com/KleinMandolin/CptS322-Project/issues/19>

## Incomplete Issues/User Stories

Here are links to issues we worked on but did not complete in this sprint:

- \* <https://github.com/KleinMandolin/CptS322-Project/issues/20>

Issue 20 states a component in the UI will render the current time as given by the server. There are a few reasons development of this component was not completed. These reasons are as follows:

- A component to fetch the current time from the backend doesn't make sense in the context of this project. The function of this application is simple - the purpose is to increment the total count displayed on page as dictated by button click.
- Rapidly approaching deadlines did not provide the necessary time to create the polished aggregate of getTime() components.
- Data formatting provided for some issue; data sent back from the server were not json objects. Considering efficient usage of time is important in development as deadlines approach, effort is best spent elsewhere on more significant components.

To summarize, (1) the component provides no value to the application, (2) approaching deadlines increased difficulty in producing a polished product, and (3) the json-less data formatting provided by the backend proved time consuming to handle. It is for the above stated reasons the team believes this component should be discarded from the preproject.

## Code Files for Review

Please review the following code files in the preproject branch, which were actively developed during this sprint, for quality:

- \* frontend/src/ClickCount.tsx
- \* backend/src/count/count.service.ts

## Retrospective Summary

Here's what went well:

- \* Item 1 - Communication is crucial in developing large scale projects with many moving parts. Through effective communication, the team is capable of understanding roles and tasks.
- \* Item 2 - Modularity in the context of large web-applications can enhance development efficiency and improve individual usage of time. This project was separated at the interface of the frontend and backend. Independent component changes had no impact on functionality in this project.

Here's what we'd like to improve:

- \* Item 1 - Although Communication is listed as a strength in this document, there is always room for improvement. The team's documentation could use more effort.

\* Item 2 - Scope Creep added an additional component to the project, the getTime component. To improve, the team will attempt to dissect the purpose of additional components prior to addition.

This was a small practice project, as such, there will be no further improvement nor change to this application.