

# Bi-Weekly Status Report #3

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## Bi-Weekly Summary

Over the past two weeks, we focused on developing additional use cases and scenarios for our project, as well as deciding on certain aspects of our backend architecture. After meeting again with our faculty mentor, we are now in the process of determining the pros and cons of various databases for our file storage.

## Accomplishments

Since the last bi-weekly report, we drafted design and architecture documents to describe our frontend and backend systems. While developing use cases, we also came up with some functional and non-functional requirements, as well as formulating business cases for each of our use cases. After meeting with our faculty mentor, we realized we need to come up with a more concrete plan for our database system.

## Individual Contributions

Name	Contribution	Weekly Hours	Total Hours
Michael Davis	Brainstormed the backend architecture with the team. Developed use case diagram and the concept diagram. Investigated possible methods for storing our users files on the backend. I am currently familiarizing myself with git API.	8, 6	42
Lily Krohn	Began Udemy course on the basics of React (mostly focused on props and components). Played around with Monaco a bit more and read more about existing projects with that have text editors using Monaco. Cloned a few to study their implications.	7, 8	42
Chris Lopez	Researched different microservice architectures. Began to explore the different kinds of services the backend will need to provide. Also, worked on documentation of the project and discussed the future of the project.	10, 10	46
Kyle Marek	Kept learning about React and the implementation of the Monaco Editor within our project. Worked on making a basic MaterialUI web app with a basic Monaco Editor within it. Had a group meeting with Dr. Goce Trajcevski to learn about future work for the next few weeks. Finished more scenarios and business cases related to the project. Completed the first iteration of the design doc.	8, 12	50

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Zachary Mohling	Studied microservice architecture. Specifically, how to decompose a larger service into smaller microservices by business capabilities and subdomains. Also started learning more components of the React ecosystem like Redux and its middlewares.	9, 10	50
Griffin Stout	Worked with our team to discuss the architecture of the project, then designed a preliminary architecture diagram based on the components. Worked with Kyle to start development on the front end, specifically getting monaco editor to work.	10, 10	49

## Pending Issues

Name	Pending Issue
Michael Davis	My current issues are with determining the most efficient method for storing our users data. I still have a lot of unknowns regarding the database and how it will be implemented with our micro-service.
Lily Krohn	We need to eventually work out how the front end will work with the backend and file storage system. This is not a necessity at the current moment but we need to begin thinking about this since we have been continuing to progress on our project.
Chris Lopez	Figure out how the backend will interface with the frontend and create services for the front end to use.
Kyle Marek	It will take more time than expected to implement the Monaco Editor in our project because there is not much documentation on implementing Monaco within a React app using TypeScript.
Zachary Mohling	Unfamiliar with Golang tooling, so progress has been slow.
Griffin Stout	Monaco Editor currently is not cooperating with our front end. It's definitely possible, but there is little to no documentation on implementing it with typescript.

## Plans

Name	Plan
Michael Davis	I am going to learn about the git API so we can determine how we are going to integrate it with the backend file storage.
Lily Krohn	Work on solidifying the architecture plans for the front end and continue working on the initial skeleton for the text editor.

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Chris Lopez	Finalize backend architecture components and learning of technologies.
Kyle Marek	Work more on using the Monaco Editor within the web app as well as more of the design of the main web page within the web app.
Zachary Mohling	Continue learning backend technologies and formalizing the backend architecture.
Griffin Stout	Work more on getting Monaco editor to cooperate with TypeScript/React, and potentially test using monaco editor with JavaScript instead of TypeScript to see if we would switch gears on the front end.