

San Francisco State University

CSC 648 - 848

Milestone 0 Submission Form

Section 01 Team 03

Below is a list of the technologies used in Team's software stack:

Server Host: DigitalOcean

Operating System: Ubuntu 22.04 Server VM on a Droplet

Database: MongoDB v4.4.9

Web Server: Nginx v1.21.3

Server-Side Language: JavaScript (Node.js v16.5.0)

Web Application Framework:

- - React.js v17.0.2
- - Node.js v16.5.0
- - Express.js v4.17.1

Additional Technologies:

- - Webpack v5.64.4
- - Babel v7.15.8
- - Yarn v1.22.17

IDE: Visual Studio Code

Item	Credentials
Website URL	https://teamproject-bg7xa.ondigitalocean.app/
Database URL	Please share how TA/instructor can connect to your database

Additional information including your study plan for each technology.

For each technology X,Y,Z, please describe Member's Familiarity with X,Y,Z on a scale of 1 to 5, with 5 being very familiar and 1 being never used it.

	Digital Ocean	Mongo DB	Nginx	JS	NodeJS	React JS	Express JS	Web pack	Babel	Yarn
Sidney Thomas	1	3	1	4	3	3	4	1	1	1
Abdarrahman Ayyaz	1	1	1	3	3	2	3	2	1	3
Jaime M. Guardado	1	1	1	4	3	3	4	3	3	4
Brandon Flores	1	1	1	4	3	3	2	1	1	1
Brenda Beltran	1	1	1	2	2	2	2	1	1	1
Banting lin	1	1	1	4	3	3	3	1	1	1

Based on our familiarity, we set up the following study plan.

- Digital Ocean

Who:

Sidney

Abdarrahman

Jaime

Brandon

Brenda (leader)

Banting

Expected goal by next 4 weeks:

According to our responses based on the familiarity, Digital ocean was one of the two lowest experienced technologies that our team is not familiar with. Over the next 4 weeks We will have study sessions to learn and pick up on how Digital ocean servers interact With our web application. We will establish a foundation in cloud computing, grasping concepts and getting familiar with DigitalOcean's basics. Then we will

dive deeper into DigitalOcean by creating and managing virtual machines which are known as droplets and conducting basic server administration tasks. Mainly, what we are focusing on For in milestone 0 is getting our application ready for deployment so that we can remotely host it and get it ready to go.

- MongoDB

Who:

Abdarrahman

Jaime

Brandon

Brenda (leader)

Banting

Expected goal by next 4 weeks:

Since most of us are new to MongoDB, we found a video shared by one of our teammates that provides a relatively quick and very well taught lesson of MongoDB that we will familiarize ourselves with heading into a new backend experience. our primary aim is to gain proficiency in this NoSQL database system to support the backend of our application. Since Our chosen stack has the MERN combination we will also be studying the video that will explain how every framework will get put together in our application with MongoDB.

- Nginx

Who:

Sidney

Abdarrahman

Jaime

Brandon

Brenda (leader)

Banting

Expected goal by next 4 weeks:

Over the next four weeks, our primary objective is to gain proficiency in Nginx, a powerful web server and reverse proxy that will play a crucial role in our application's infrastructure. We aim to comprehend its architecture, core configuration files, and basic server settings, building a solid foundation for our subsequent study. Our goal is to set up Nginx as the web server for our application ,in configuring it to efficiently serve both static and dynamic content.

- Babel

Who:

Sidney

Brandon

Brenda (leader)

Banting

Expected goal by next 4 weeks:

We will look into what Babel JS is and what it does for our application. Most of us are not familiar with it yet but our study plan is to provide a comprehensive understanding of Babel. we aim to grasp its core concepts, become proficient in its installation and configuration, explore integration possibilities with our development stack as well as selecting and configuring Babel plugins. We plan to familiarize ourselves with this new technology which will contribute many newer features to our application.

- Webpack

Who:

Sidney

Abdarrahman

Brandon

Brenda (leader)

Banting

Expected goal by next 4 weeks:

We plan to gain a solid understanding of Webpack, a crucial tool in modern web development. As well as dive deeper into Webpack's configuration, focusing on entry points, output, and loaders. Learn how to bundle JavaScript files. Explore loaders in detail, including CSS and image loaders. We will learn how to handle various file types in our application as well.

- Yarn

Who:

Sidney

Brandon

Brenda (leader)

Banting

Expected goal by next 4 weeks:

This will be our first time using yarn, our plan is to learn about the package manager yarn And know what it does in our web application. We plan to explore yarn's dependency management capabilities and optimize our web app's dependencies as well as enhance build processes. We will continue to explore yarn's functionality over the weeks And start to get familiarized for our convenience.