| **San Francisco State University****CSC 648 - 848****Milestone 0 Submission Form****Section 01 Team 03**   Authors: Miguel Logarta, Alan Yu, Su Tun, Halia Tavares, Diane Blise, John Bagwell, Timmy Tram |
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Below is a list of the technologies used in Team’s software:

* **Cloud server**: Amazon AWS and MongoDB Atlas
* **Operating System**: Linux Ubuntu 24.04.1 LTS
* **Database**: MongoDB 7.0.14
* **Web Application Framework**: Next.js 14^ (primary), Node.js, Express
* **Front-end technology**: React.js -> Next.js 14^
* **Web server**: Vercel
* **IDE**: Visual Studio Code

Here are some additional tools we will be using for this project:

* Typescript (Static type checking for JavaScript)
* Jest (Testing Library)
* Tailwind CSS (UI Library)
* NextAuth.js (Authentication)
* Figma (Front-end design tool)
* Trello (Project management tool)

| Item | Credentials |
| --- | --- |
| Website URL | https://csc648-01-fa24-csc648-01-fa24-team03.vercel.app/ |
| Cloud VM Instance | To connect to the VM, just visit the website. |
| Database URL | Since we are using MongoDB Atlas, we have to set the database url in our .env file. Next we run “prisma generate” to generate our prisma client. We can then use prisma to interact with our MongoDB instance.  DATABASE\_URL="mongodb+srv://<username>:<password>@csc648-01-team03-cluste.g1ef0.mongodb.net/<database\_name>?retryWrites=true&w=majority&appName=CSC648-01-Team03-Cluster" |

Below are the familiarities of each technology for each member of the team as well as their study plans.

For each technology, their familiarity has a rating from 1 to 5.

**1** = Never heard of it / used it

**2** = I have heard of it

**3** = I'm in the process of learning it

**4** = I've used it (maybe once or twice)

**5** = Significantly familiar (I've used it in past projects)

| **Name** | **Role** | **Javascript** | **React.js** | **Next.js** | **Typescript** |
| --- | --- | --- | --- | --- | --- |
| Miguel Antonio Logarta | Team Lead | 5 | 5 | 3 | 5 |
| Alan Yu | Scrum | 4 | 3 | 3 | 3 |
| Timmy Tram | Backend | 5 | 4 | 2 | 3 |
| Halia Tavares | Frontend | 3 | 2 | 2 | 1 |
| Diane Blise | Frontend | 5 | 4 | 4 | 2 |
| John Bagwell | Back-end | 5 | 3 | 3 | 2 |
| Su Tun | Git master | 4 | 2 | 3 | 2 |

| **Name** | **Role** | **Tailwind CSS** | **MongoDB** | **Prisma** | **MongoDB Atlas** |
| --- | --- | --- | --- | --- | --- |
| Miguel Antonio Logarta | Team Lead | 3 | 2 | 3 | 1 |
| Alan Yu | Scrum | 2 | 3 | 1 | 2 |
| Timmy Tram | Backend | 4 | 4 | 2 | 4 |
| Halia Tavares | Frontend | 1 | 2 | 2 | 2 |
| Diane Blise | Frontend | 1 | 4 | 2 | 3 |
| John Bagwell | Back-end | 1 | 4 | 1 | 3 |
| Su Tun | Git master | 1 | 2 | 1 | 2 |

| **Name** | **Role** | **Vercel** | **NextAuth.js** | **Figma** | **Trello** | **Jest** |
| --- | --- | --- | --- | --- | --- | --- |
| Miguel Antonio Logarta | Team Lead | 2 | 1 | 4 | 5 | 5 |
| Alan Yu | Scrum | 1 | 2 | 5 | 1 | 1 |
| Timmy Tram | Backend | 1 | 2 | 2 | 2 | 2 |
| Halia Tavares | Frontend | 1 | 2 | 3 | 2 | 1 |
| Diane Blise | Frontend | 3 | 2 | 2 | 1 | 1 |
| John Bagwell | Back-end | 1 | 2 | 2 | 1 | 1 |
| Su Tun | Git master | 1 | 2 | 2 | 1 | 1 |

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

Miguel Antonio Logarta: Team Lead

* Next.js: Quickly familiarize myself with Next.js within 2 weeks using the course offered by Vercel or on YouTube. Make a simple app.
* Tailwind CSS: Slowly incorporate Tailwind CSS in a project to learn Tailwind.
* MongoDB: Take an online course in MongoDB
* Prisma: Read the documentation this week while trying to set up our MongoDB instance.
* MongoDB Atlas: Read the documentation in the upcoming future when we try to deploy our database to AWS
* Vercel: Read the documentation this week to help scrum master deploy the website
* NextAuth.js: Read the documentation once the project needs to incorporate authentication (login system)
* **Project**: Create a todo list app complete with a user authentication system and database storage.

Alan Yu: Scrum Master

* MongoDB Atlas: Primary technology to learn. Over the next 3-4 weeks, Alan will learn the ins and outs of MongoDB Atlas to reliably deploy our MongoDB instance and also quickly diagnose any problems if anything happens.
* Vercel: Primary technology to learn. Over the next 3-4 weeks, Alan will learn the ins and outs of Vercel to reliably deploy our Next.js website and also quickly diagnose any problems should anything happen.
* Trello: Learn Trello, a project management tool, to maximize team efficiency and coordination.
* **Project**: Create a simple todo list app that can handle database storage.

Timmy Tram: Back-end Lead

* Next.js: Primary technology to learn. Timmy along with his other back-end team member, John, will learn how to use Next.js over the next 3-4 weeks to familiarize themselves with Server Side Rendering. They will also learn how to handle API routes in Next.js.
* Typescript: Timmy will learn Typescript by slowly incorporating it into his projects over the course of the semester.
* Prisma: Primary technology to learn. Timmy will have to learn how to use an ORM to interact with our MongoDB instance. Over the next 3-4 weeks he will learn how to use Prisma.
* NextAuth.js: Primary technology to learn. Timmy will have to get familiar with NextAuth.js once we start implementing authentication into our project. Learning this can be postponed until we need to use it in the project.
* Jest: Familiarize with Jest so that we can have reliable bug-free code.
* **Project**: Create a backend server that can store users, handle authentication, and handle file storage.

Halia Tavares: Front-end

* Next.js: Primary technology to learn. Halia along with her other front-end team member, Diane, will learn how to use Next.js over the next 3-4 weeks to familiarize themselves with React components. They will also learn how to style these components in Next.js.
* Tailwind CSS: Primary technology to learn. Halia will learn how to use Tailwind CSS over the course of 3-4 weeks so that she can quickly build and design responsive modern UI for our website.
* Figma: Figma is an optional tool to learn, but it can be a great way to prototype designs before moving on to development. Halia will learn how to use Figma over the next 3-4 weeks as she tries to incorporate it into her front-end work.
* **Project**: Create a front-end UI similar to Yelp. Users should be able to see different restaurants and the necessary information.

Diane Blise: Front-end Lead

* Next.js: Primary technology to learn. Diane along with her other front-end team member, Halia, will learn how to use Next.js over the next 3-4 weeks to familiarize themselves with React components. They will also learn how to style these components in Next.js.
* Tailwind CSS: Primary technology to learn. Diane will learn how to use Tailwind CSS over the course of 3-4 weeks so that she can quickly build and design responsive modern UI for our website.
* Figma: Figma is an optional tool to learn, but it can be a great way to prototype designs before moving on to development. Halia will learn how to use Figma over the next 3-4 weeks as she tries to incorporate it into her front-end work.
* **Project**: Create a front-end UI similar to Yelp. Users should be able to see different restaurants and the necessary information.

John Bagwell: Back-end

* Next.js: Primary technology to learn. John along with his other back-end team member, Timmy, will learn how to use Next.js over the next 3-4 weeks to familiarize themselves with Server Side Rendering. They will also learn how to handle API routes in Next.js.
* Typescript: John will learn Typescript by slowly incorporating it into his projects over the course of the semester.
* Prisma: Primary technology to learn. John will have to learn how to use an ORM to interact with our MongoDB instance. Over the next 3-4 weeks he will learn how to use Prisma.
* NextAuth.js: Primary technology to learn. John will have to get familiar with NextAuth.js once we start implementing authentication into our project. Learning this can be postponed until we need to use it in the project.
* Jest: Familiarize with Jest so that we can have reliable bug-free code.
* **Project**: Create a backend server that can store users, handle authentication, and handle file storage.

Su Tun: Git master

* Next.js: Primary technology to learn. Su will learn how to use Next.js over the next 3-4 weeks to familiarize herself with Next.js. She can choose to focus on front-end or back-end work.
* Vercel: Su will have to familiarize herself with Vercel to make it easier to deploy the project to the web server.
* Trello: Learn Trello, a project management tool, to maximize team efficiency and coordination.
* Jest: Primary technology to learn. Su will be the main person in charge of making test cases for the project. She will learn how to use this technology over the course of 3-4 weeks.
* **Project**: Create a simple todo list app that can store data into a database.