# Daily Meeting Notes / Reflective Journal

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School Subject Database/WebApp Project

## Notes

2/12/20

Project organization beginning. Project on github created and linked with a newly made repository. Kanban board developed, all tasks and deliverables added to the board.

3/12/20

Team contract developed. Debated SQL vs NoSql databases for the provided data set.
NoSql (mongoDB) was chosen. I made this choice based on the fact that none of the groups of data had a relationship.
Database was developed and data set imported using MongoDB Compass

4/12/20

Researched methods of connecting a webpage to a database.
Node.js. I chose node.js because I was familiar with javascript.
Created a Mongo Atlas cluster and connected it to MongoDB Compass.
Created users and roles based on client guidelines
Tested authentication and authorization. Played around with different roles and ran into issues when specifying a collection a user could readWrite, I was only able to specify a database. When specifying a collection the collection would not be visible.

5/12/20

Tutorials for integrating front-end and back-end.
Developed node.js runtime environment.
Connected Atlas cluster with node.js server
Developed HTML and EJS pages for the User Interface.

7/12/20

Starting to develop CRUD operations
Having issues with app.get(). Unable to get data from my collection to appear on my user interface.
I began looking at alternative ways to get my database rendered in html.

8/12/20

After messing with my project for a while I had gotten it into a state worse than it was before. I foolishly did not have a more developed, working version of it pushed to github. So starting from a mostly clean slate, but this time I was able to recreate it much quicker to a state that was functional.

9/12/20
Still unable to get my database to properly display database data.
Moved onto creating POST functionality. Creating the post function wasn't very difficult after following some reference material.

10/12/20
Showed tutor connectivity with the database and demonstrated creating a new document in my database from the web app.
Began doing testing with POST function
Testing different users using the POST function

11/12/20
Cleaning up display of User Interface. And organizing project files to prepare for submission.

## Reflective Journal

### Project Overview

I found this project needing more time put into it to fully flesh it out. I spent a lot of time trying to understand each bit that I was doing so that I could fix any issues but I lost a lot of time trying to fix one area, that being the display of my database information. I'm happy with the progress I made in a short time creating something using Node.js which I have not before used. Everything within this project was done by me.

### Design Commentary

- Choosing a NoSql database was definitely the right choice. With no relationships between records or a strict model for each record, nosql worked exactly how it needed to.
- For displaying html to the webpage, I ran into the most issues trying to get my EJS file to display the database records. I think this was the right way to try and display my records since I was comfortable with using javascript and could think about how certain tasks could be accomplished such as iterating through the records of my collection and displaying it as an unordered list without everything being new to me.

### Implementation Commentary

- The app.get() function was not working for me when using it to display my database records. With more time or a bigger team I'm sure I would have been able to get it working but frustration was kicking in as I couldn't see what was wrong and had to keep moving forward in the project.
- app.post() was able to work much easier which was a boost of satisfaction that I needed to keep my spirits up in this project. Once getting it to post from the web app to the

database, I began testing the functionality of it with different users and was happy to see it would give me an error when trying to post when logged in as a student.