



Full Stack Keeper App - COMS W3102 Final Project

Rishabh Ganesh
Professor Ahmed
Full Stack Development
Spring 2024



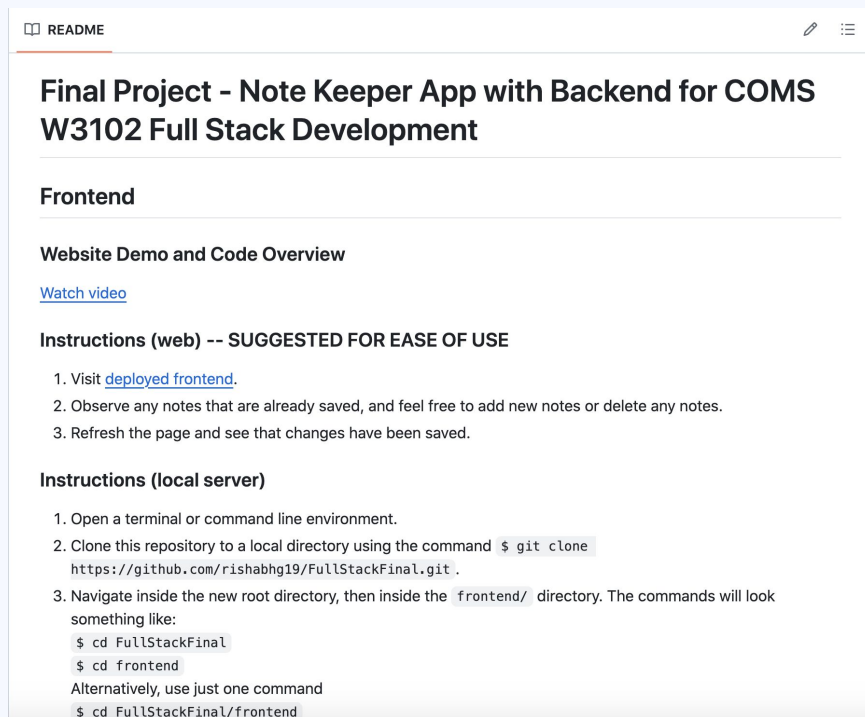
1. Github Repository

<https://github.com/rishabhg19/FullStackFinal>



2. Preview of README file

README contains instructions, examples, images, and links guiding users on how to use the application on the web, and through running it on a local server



3. Deployed application

Frontend

<https://full-stack-final-gilt.vercel.app/>

The frontend of the application is deployed using Vercel. It may take some time to load the notes that are saved initially. It is designed to closely resemble the midterm user interface.

Backend

<https://keeperappbackend-itaz.onrender.com/notes>

The backend of the application is deployed using render. It has functionality for handling GET, POST, and DELETE requests from the client.

4. Reference link

TA Shivam's Tutorials

https://www.youtube.com/playlist?list=PLCKLPJHmXyU_VXHIXJNoiteyidITvZXMX

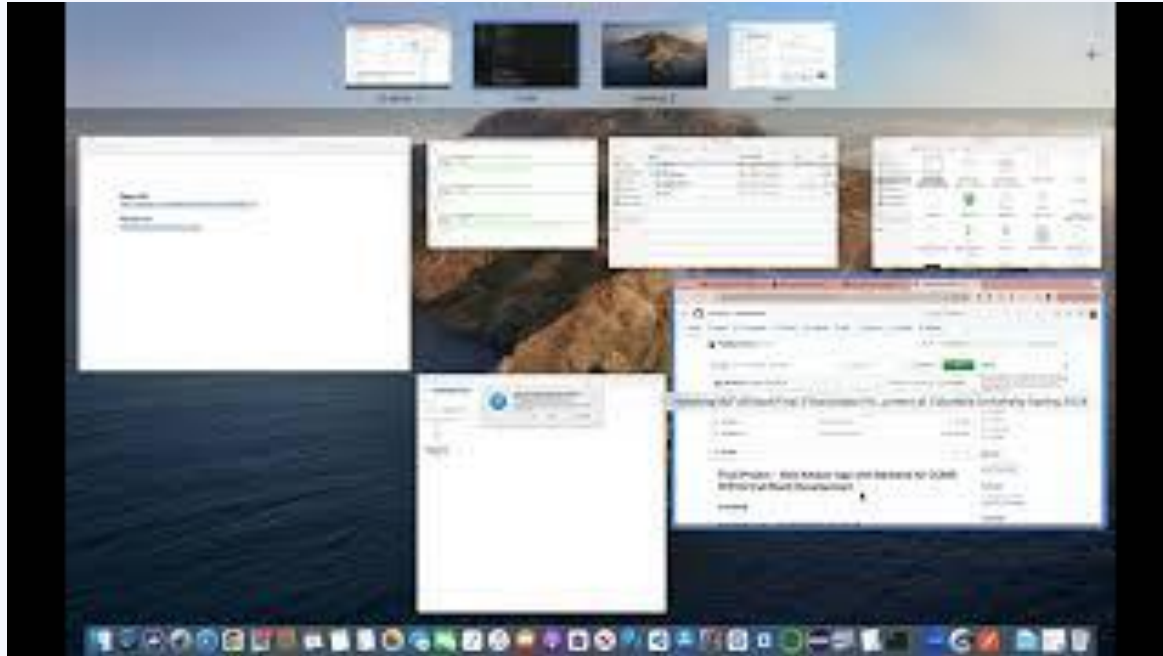
5. Modifications

- Change UI to make the frontend appear the same as the midterm
 - Redefine Note component
 - Use styling from midterm
- Remove manual definition of `_id` from the note schema in the server model
 - MongoDB can assign unique ObjectId values by default
- Make port number into an environment variable for abstraction
- Connect React application to backend deployed on the web so that the application requires a maximum of one port on a local server to run
 - Without backend deployment, running the app locally would require two ports to run



6. Video demo and code overview

https://www.youtube.com/watch?v=WG6nyjOz-_w



7. Things I've learned



Deployment

Not all deployment tools are created equally; I tried Railway and Glitch, but Render worked best for me. There are many tools out there to accomplish the same goal, but some tools are more convenient than others.



Environment Variables

I learned how important it is to hide certain aspects of the application like the MongoDB URI using environment variables. Without this, I would publish my URI to github for anyone to use, which is a security risk.



MongoDB

During the lecture where we watched MongoDB setup tutorials, I created my first Atlas cluster. I did not know that I could use this same cluster for various collections of data for different projects. I had never used a NoSQL database prior to this project.



Tailwind CSS

I did not use Tailwind CSS in this project, but I learned how powerful it can be from tutorials, so I am sure it will come in handy in the future.



API Testing

I did not realize the power of tools like Postman prior to this project. It is such a convenient way to debug an API. I used Postman to populate the notes server with jokes from the midterm.



Javascript Syntax

Javascript syntax is generally confusing to me, especially callback functions. From working on this project, I am more confident in my ability to effectively use callback functions in my applications.