

Team Fraggie Rock

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Web Application for Database Management

Project Purposes and Goals Statements:

- Create a Web Application that allows for easy editing of MongoDB Databases.
- Implement Metadata Collection for Version Control Features
- Webapp has security features in order to log who's making what changes.

Project Abstract

This project aims to provide easy and intuitive **database management** implemented alongside useful **metadata collection** that would allow a database manager to easily collect information about how changes are being made and by who within their databases. Our Web Application aims to provide these features alongside **security** features that will permit administrators to easily monitor and protect the data they overlook. We also seek to implement the features supplied by ckEditor to enable **robust text entry** into databases expanding the ability of database managers to add any kind of data they want with ease.

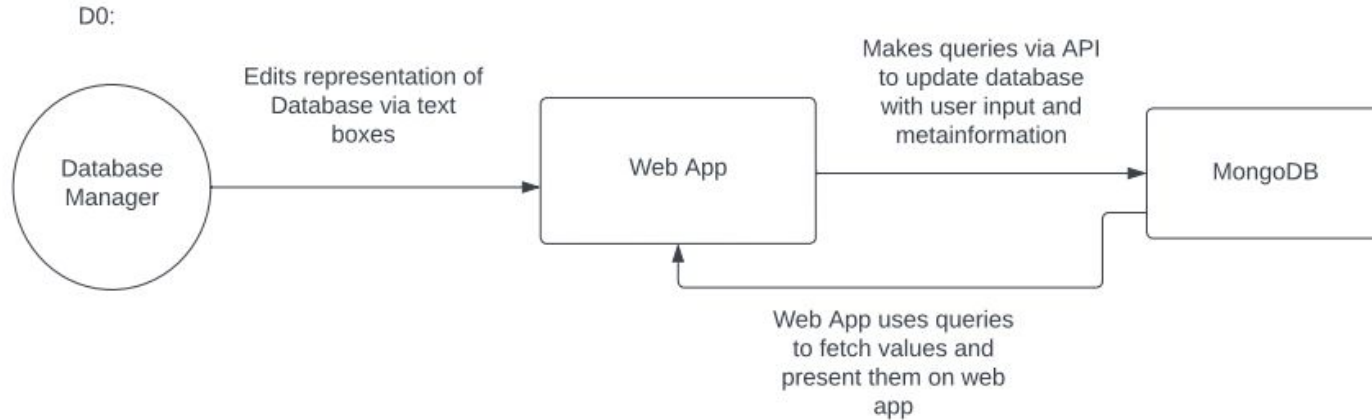
User Stories

As a database manager, I want to manage a MongoDB database and collaborate with others on my team, thus allowing the team to be more productive.

As a database manager, I want to be able to record when changes are made to the database and who the changes were made by, allowing better version control and safe storage of data.

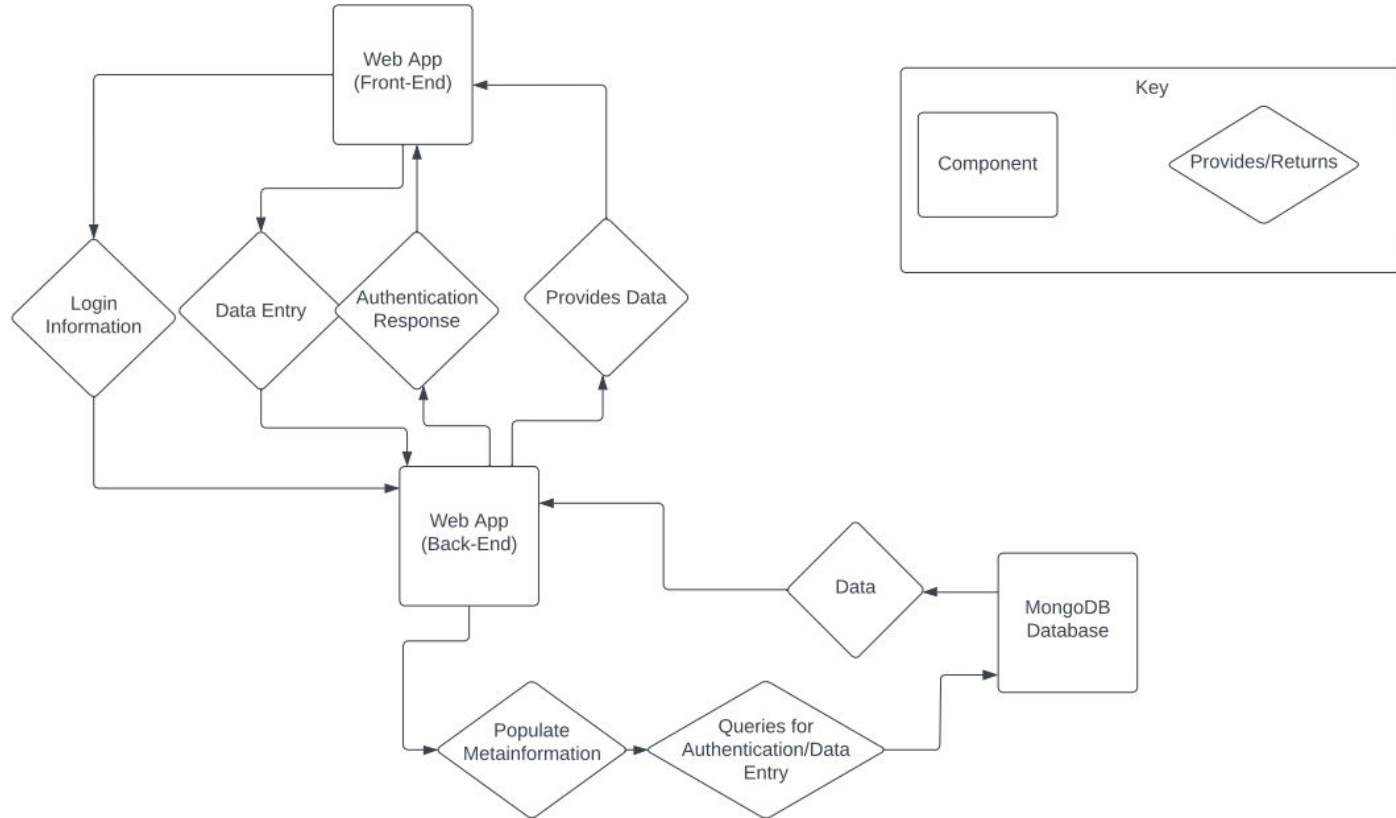
As a project manager, I want all of my team members to be able to update our MongoDB database regardless of their current knowledge of query languages.

Design Diagrams



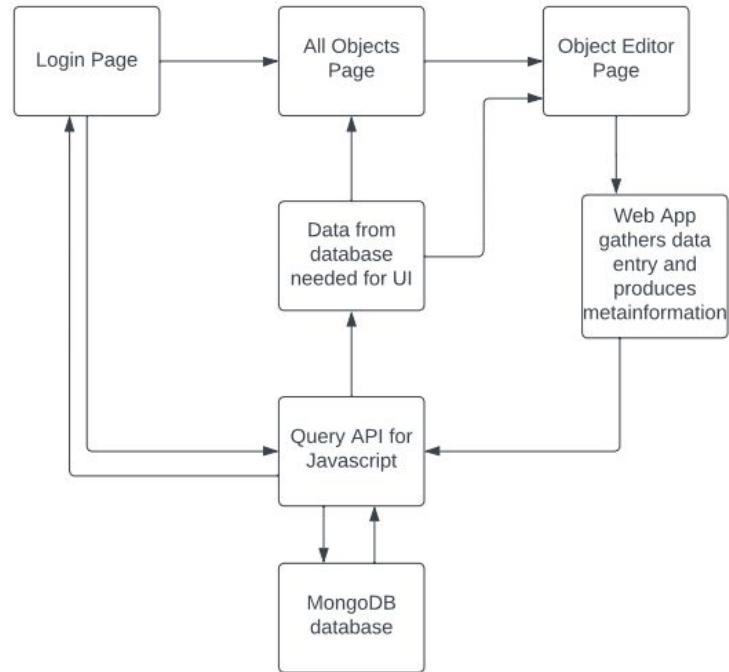
Design Diagrams

D1:



Design Diagrams

D2:



Major Project Constraints

- Security
 - Accounts must be verified to ensure data collected is accurate and useful
 - Web Application should protect Users Data.
- Environment
 - Inspiration for Project comes from desired product from job, if I want to use what I created on this project in the future I must ensure I don't design anything that wouldn't be able to be used at my company.
 - With this the quality of the project also affects the opinions others have of me in my professional space at work.
- Economic
 - I am the only person funding this project and I would prefer to keep the overall cost in terms of money low thus many solutions I seek are free to implement.

Review of Project Progress

- Currently have my main 2 webpages are set up one for viewing entire database and one for drilling into a document to edit it's contents
- 2nd webpage allows users to delete data and make edits but does not allow the user to make any lists or other more complicated things
- Work on Back-End is complete in order to be completely functional for database management but does not include functionality for metadata recording.

Expected Accomplishments for End of Term

- Completed Back-End for allowing editing and requesting data from mongodb database.
- Implement Security Features for making accounts, managing accounts, logging in etc...
- Complete Data Editing UI and implement ckEditor to allow for large text entry into database.

Division of Work

I am alone on this project everything is developed by me.

Expected Demo at Expo

- My Expected Demo would be a short run through of what my application provides and a quick run through of the user interface and how to make edits.
- I could also provide a couple setups with the web application open providing a simulated experience of what collaborating with others using my web application would be like.