

Progress Report

For this section of the progress report I will be reporting the advancements that I have made this semester. The goal of my product is to provide a web application that allows multiple users to make edits to a MongoDB database using various tools like ckEditor for robust text entry options. The application will also provide metadata collection for version control which inturn requires security to be implemented as well. My project consists of two main components so far, being the front-end and back-end of the application. There is also a dummy MongoDB database that I use to test my application against.

So far for the front-end I have implemented two webpages one being the collection page and the other being the document editing page. For the collection page it displays all of the mongoDB documents within a collection. Currently this page can not display any collection other than the collection that is hardcoded into the application. The page consists of a table where each row is a document within that collection two rows are for displaying data to the user to help them find the document they are looking for while the first column called “Actions” is a button that takes the user to a webpage to individually edit the said document. Currently most of the layout of this webpage is a placeholder until all functionality is built out. As I plan on having users being able to plug in any database they desire having columns hardcoded will not work with the final product. The actions column will also most likely be phased out in lieu of simply clicking on the table row to drill in to the other web page. On load this Collections Page will make a request from the server to return a list of all documents within the collection then will use the data returned to build out the rest of the table.

The second web-page allows the user to make edits to the database within the document they specified on the Collections Page. This page currently is implemented by making a request

from the server to provide the list of all documents then uses the id provided in as a parameter in the url to get the data of the desired document. This method is definitely not efficient as there are ways to make queries to request specific documents instead of receiving the data for all documents and filtering out the desired data on the front-end. Once the data is received javascript is used to build out a table that lists out each key value pair within the document. There is also a radio button to select each key-value pair for deletion. Each value is also within a text box for the user to make edits to currently lists are displayed as entries separated by commas however logic needs to be implemented to better handle lists cause as it stands when the user tries to save an list it is not saved within the database as an array instead it is converted to a string. The save button calls a function on the front end that goes through each row and gets the values for both the key and value within the key-value pair then makes a JSON data structure from it. This function then sends the JSON generated and the id of the document being edited to the server and requests a replacement. This will replace the old document with the structure of the edited document. The Delete button has also been implemented, this works by selected the row desired to be deleted then hitting the delete button. This will remove the row from the table but no changes are made to the database until the user hits save. If you accidentally delete a row you can simply refresh as long as you have not hit save. Work has been done to implement an Add button but I did not include it in my final commit as I couldn't make it work before my submission time.

One small thing I also implemented was a simple MongoDB database to run my application against it is not very robust but does have multiple documents with many different datatypes. Updates will have to be made to the database as I continue to implement more within my application.

Collection Page:

Team Fraggie Rock

Actions	Title	Genre
<div>></div>	Italian Men	2D Platformer
<div>></div>	Call of Arms	First Person Shooter
<div>></div>	Port Hole	First Person Puzzler

Document Editing Page:

Team Fraggie Rock

Actions	Key	Value
title	<div>Italian Men</div>	<div></div>
genre	<div>2D Platformer</div>	<div></div>
developer	<div>Trentendo</div>	<div></div>
platforms	<div>LightSwitch,StayPlaytion,XB</div>	<div></div>
cost	<div>60</div>	<div></div>
release date	<div>10/21/2024</div>	<div></div>
<div>Delete</div>		

Save