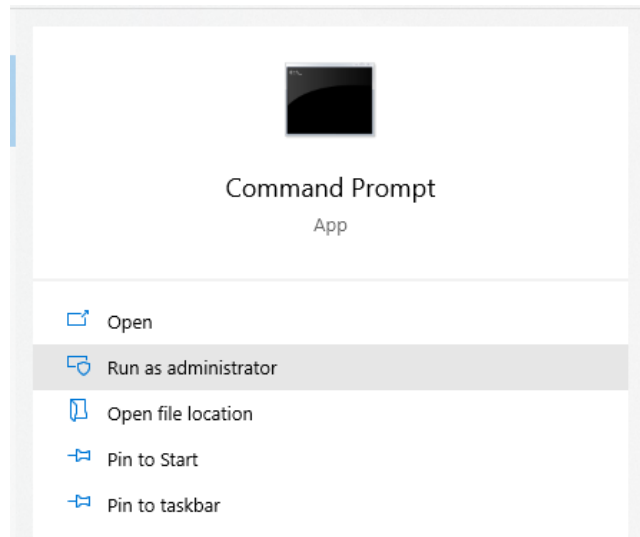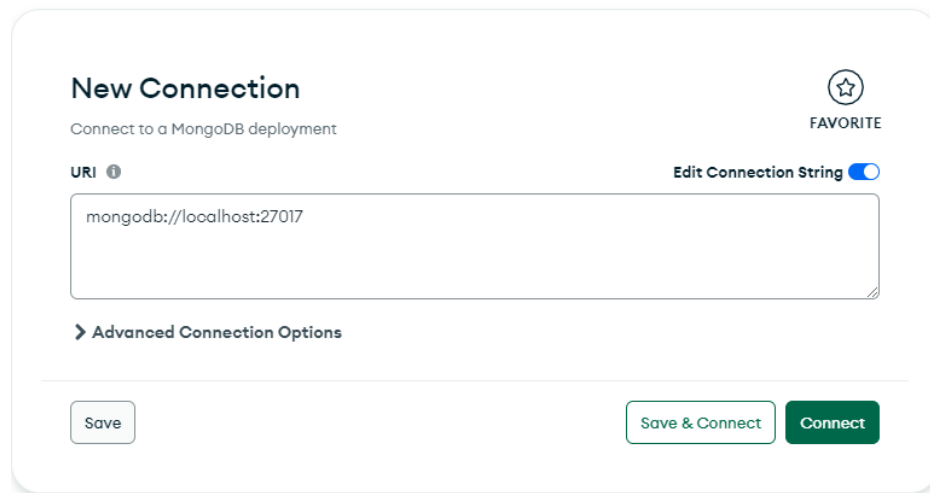2406 Final Project Read Me
Owen Beattie

Initialization

1. Begin by downloading and extracting the zip file containing the project.
2. Run the command prompt or another terminal as administrator.



3. Create the Path to the db folder in the code directory, so we can connect the MongoDB application.
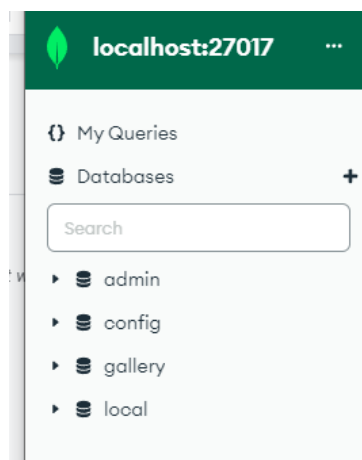   "C:\Program Files\MongoDB\Server\6.0\bin\mongod.exe" --dbpath="(address)"

4.  Open the MongoDB compass, and select the connect option



5.  In VSCode, open the terminal and enter npm install.

6.  Initialize the database by running node <span style="color:red">initialize-database.js</span>

```
PS C:\cs\2406\mongodb\projectFinal> node .\initialize-database.js
db connected
```

7.  The gallery collection should now appear in the compass when the view is refreshed



8.   Enter npm start to run the server.js file and navigate to "http://localhost:8080"

<u>Critiques</u>

Some critiques, as well as some additions I would add to my project, are the following;

- I think that although currently adequate, I could have implemented better promise error handling. I did have handling in my work, but there are rare exceptions I could have worked on in the case they appear.
- Another critique I have regarding my project is how much script is found in the templates. Most if not all of my pug templates probably contain over 100 lines of code. It simply would have been cleaner if I had made js files for each template, and reference them.
- My last critique would have to be how if an error appears and causes a server crash, there is nothing put in place to rebound and continue functionality. A single point of failure in the runtime completely ends it.

<u>Design choices</u>

- I decided to only use login, as opposed to login and registration. Meaning that although there is no registration option, logging in with a username not found in the database will result in a new user being created with those credentials. In addition, if a username is found in the database when login is attempted, if the passwords don't match an error occurs.
- My notification functionality only covers the last five minutes. Meaning that if an artist a user follows posts a workshop or artwork, the notification will be present on the account page only within 5 minutes of creation.
- Instead of requiring a patron posts artwork to upgrade their account to artist, I made it so updating their account allows them to post art or workshops. Meaning you could have an artist-level account without ever having posted art. I think this makes more sense because artists are able to delete their posts, so either way an artist is able to have nothing to their portfolio.
- To upgrade a user's account, they must also enter their correct password in order for the account to update, this adds more security to the process.

Link to Video

https://youtu.be/4C-zuoVsJWs