Instructions On How to Run my CS340 Animal Shelter Custom Docker Container

Open Terminal

Get Container:

- docker pull moonlitaltar/cs340

Run Container:

Change "container_name" to whatever you'd like the container to be called, I named mine cs340

- docker run -d -p 27017:27017 --name container_name moonlitaltar/cs340

Run Commands

- docker exec -it container_name bash

Add user

Create a user using my SNHU handle for assignments.

- useradd -m -s /bin/bash edwardgarcia5_snhu

- passwd password

- su – edwardgarcia5_snhu

The datasets for CS340 are on the image and located at /usr/local/datasets

Add MongoDB environment file to bash

- echo 'source /usr/local/datasets/mongodb-env.txt' >> ~/.bashrc

- source ~/.bashrc

Copy mongoshrc.js file to home folder

- cd /usr/local/datasets

- cp mongoshrc.js ~/.mongoshrc.js

Connect to mongo shell

- mongosh

Change root user password in MongoDB, I set my root password to "password"

- db.changeUserPassword("root", "password")

exit

- exit # This exit returns to root user

Edit MongoDB environment file

- cd /usr/local/datasets

- nano mongodb-env.txt

Change the password for MONGO_PASS to "password"

"password", use Ctrl+S to save, then Ctrl+X to exit.

Change User and Test Connection

- su - yourname_snhu

- mongosh

If it connects without errors and starts you in the admin database, that means everything is setup correctly.

Install Jupyter - (You must have Python Installed with pip before continuing)

Either exit the container or open a new terminal. Run the following:

- pip install pymongo notebook jupyter-dash dash-leaflet==0.1.9 dash==2.8.1 pandas==1.4.2 matplotlib

Run Jupyter Notebook

- jupyter notebook