

Architect That!!



Objective:

Create application environments with Docker Compose.

Mission:

Create a Docker compose file for the React application:

- Diagram the architecture!!

- Create a Docker Compose file for MongoDB:

```
container_name: "front-end"

environment:

ME_CONFIG_MONGODB_ADMINUSERNAME: "root1"

ME_CONFIG_MONGODB_ADMINPASSWORD: "password1"

ME_CONFIG_MONGODB_SERVER: database

ports:

- "8081:8081"

restart: "unless-stopped"

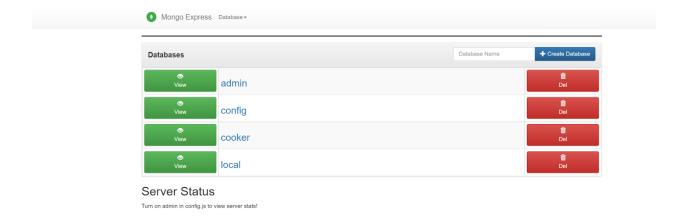
depends_on:

- "mongodb"
```

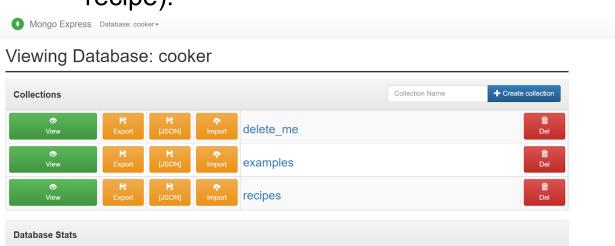
- Observe the file and now create the project!!

Next:

- Tear down what you created above and now add a persistent volume for the database. (Find out where MongoDB keeps it's default database data files.)
- Once that's done, create the application again. Follow steps below to add data to the database:
 - Create a New database name (you can call it test):



- Create a new collection (you can call it recipe):



 View the recipe collection and click on "new document". Paste the data set below:

```
title: 'Chicken Soft Tacos',
calories_per_serving: 205,
cook_time: 19,
desc: 'Mexican soft tacos',
directions: [
    'Put seasoning on chicken breasts',
    'Grill until done',
    'Chop chicken into pieces',
    'Put in tortillas'
ingredients: [
        name: 'chicken breast',
        quantity: {
           amount: 1,
           unit: 'lbs'
        name: 'taco seasoning',
        quantity: {
           amount: 2,
           unit: ˈozˈ
        name: 'small flour tortillas',
        quantity: {
           amount: 12,
           unit: 'oz'
likes: [
likes_count: 3,
prep_time: 10,
rating: [
```

```
],
  rating_avg: 3.71,
  servings: 5,
  tags: [
     'mexican',
     'quick',
     'easy',
     'chicken'
  ],
  type: 'Dinner'
}
```

- Now tear down the application and build it again. Do you see your old data? If yes, then move on to the next step.
- Diagram this architecture.