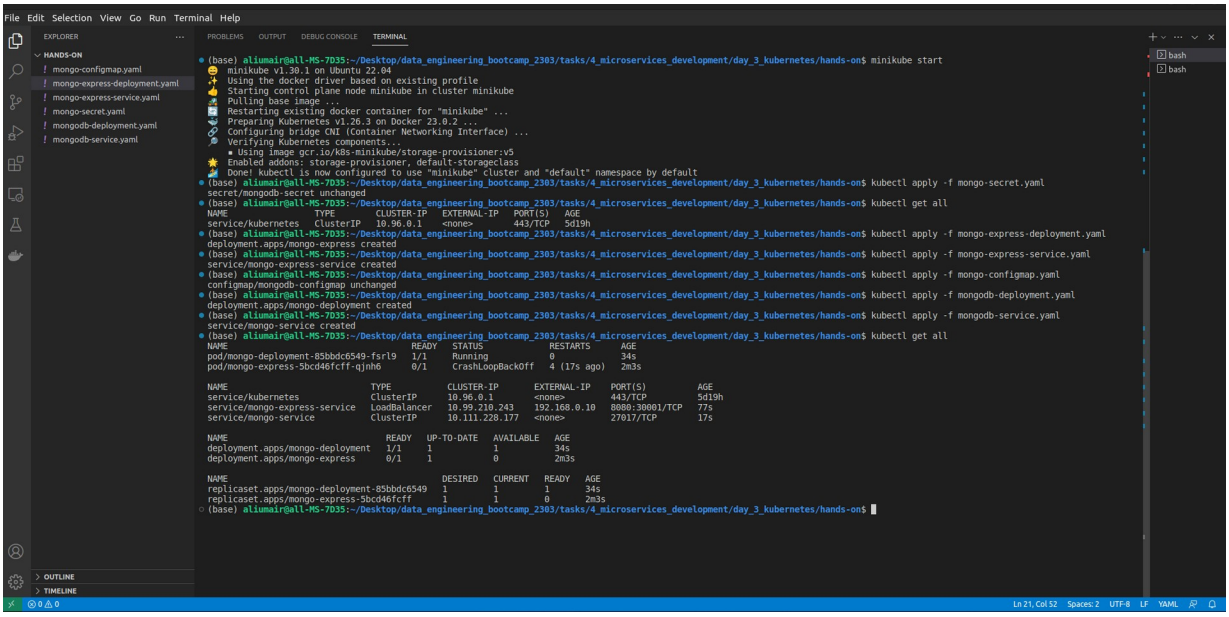
Display logs of a running MongoDB container. Add a document to the DB via Mongo Express frontend. Get into the pod and verify the document's existence via *mongosh*.

## Step 1:

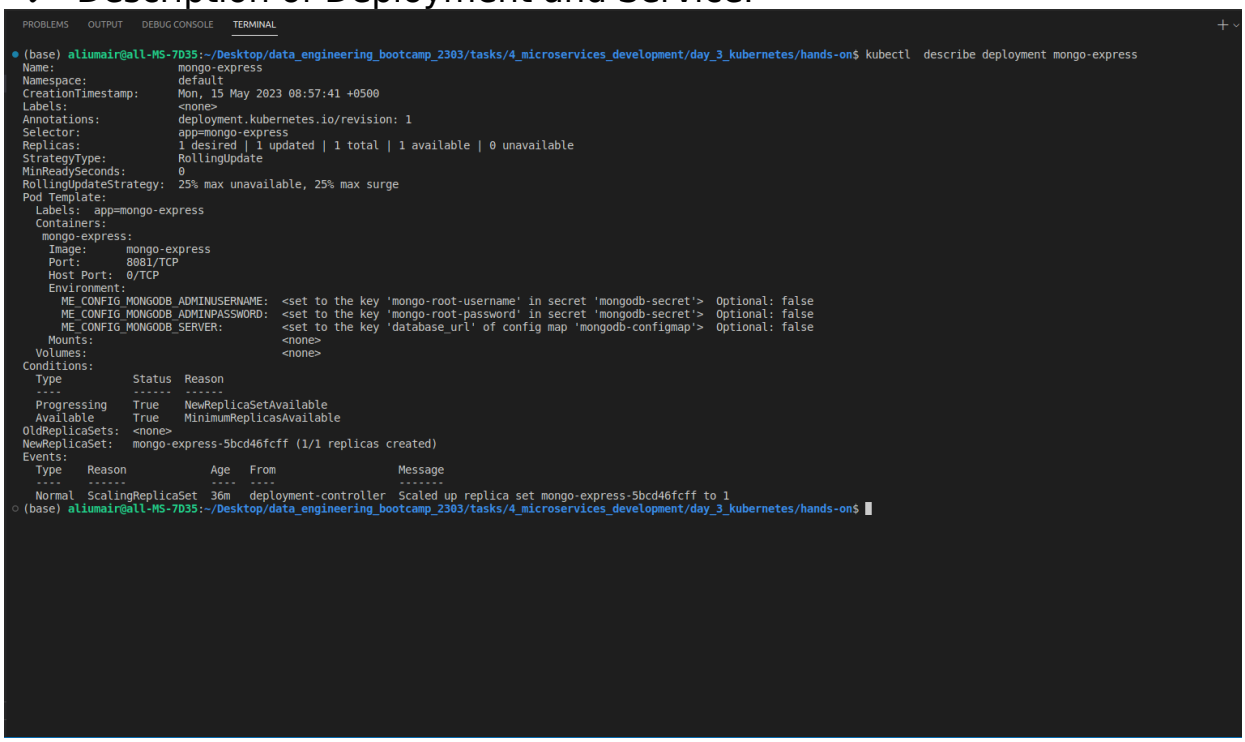
✔ Start Minikube

✔ Deploying all yaml files using Kubectl




## Step 2:

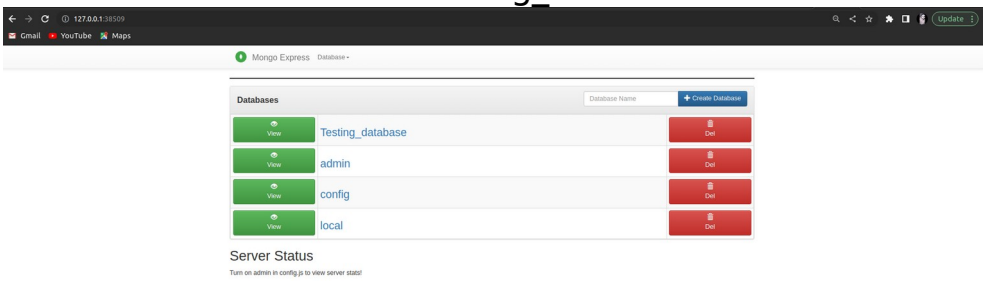
✔ Description of Deployment and Service.



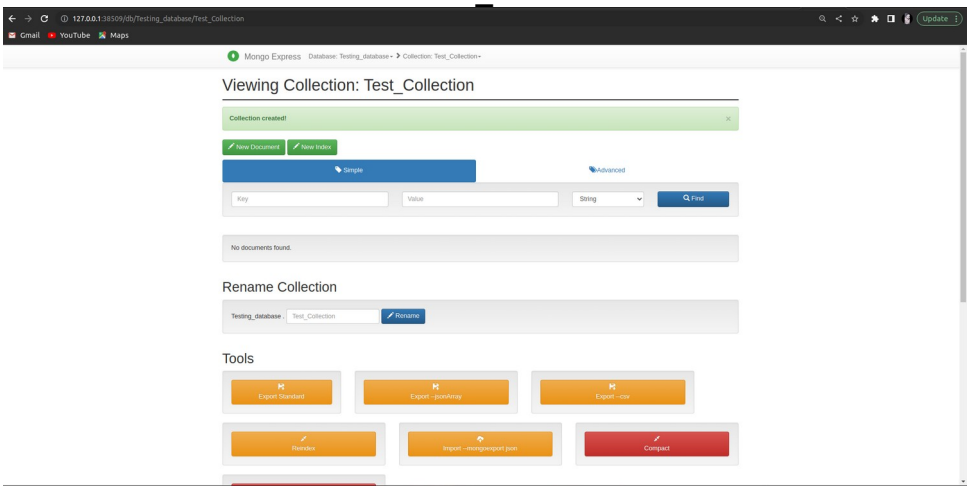
```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

(base) aliumair@all-MS-7D35:~/Desktop/data_engineering_bootcamp_2303/tasks/4_microservices_development/day_3_kubernetes/hands-on$ kubectl  describe deployment mongo-deployment
Name:                   mongo-deployment
Namespace:              default
CreationTimestamp:      Mon, 15 May 2023 08:59:10 +0500
Labels:                 app=mongodb
Annotations:            deployment.kubernetes.io/revision: 1
Selector:               app=mongodb
Replicas:               1 desired | 1 updated | 1 total | 1 available | 0 unavailable
StrategyType:           RollingUpdate
MinReadySeconds:        0
RollingUpdateStrategy:  25% max unavailable, 25% max surge
Pod Template:
  Labels:  app=mongodb
  Containers:
   mongodb:
    Image:      mongo
    Port:       27017/TCP
    Host Port:  0/TCP
    Environment:
      MONGO_INITDB_DATABASE:       admin
      MONGO_INITDB_ROOT_USERNAME:  <set to the key 'mongo-root-username' in secret 'mongodb-secret'>  Optional: false
      MONGO_INITDB_ROOT_PASSWORD:  <set to the key 'mongo-root-password' in secret 'mongodb-secret'>  Optional: false
    Mounts:                        <none>
  Volumes:                         <none>
Conditions:
  Type           Status  Reason
  ----           ------  ------
  Available      True    MinimumReplicasAvailable
  Progressing    True    NewReplicaSetAvailable
OldReplicaSets:  <none>
NewReplicaSet:   mongo-deployment-85bbdc6549 (1/1 replicas created)
Events:
  Type    Reason             Age   From                   Message
  ----    ------             ----  ----                   -------
  Normal  ScalingReplicaSet  35m   deployment-controller  Scaled up replica set mongo-deployment-85bbdc6549 to 1
(base) aliumair@all-MS-7D35:~/Desktop/data_engineering_bootcamp_2303/tasks/4_microservices_development/day_3_kubernetes/hands-on$
```

## Step 3:

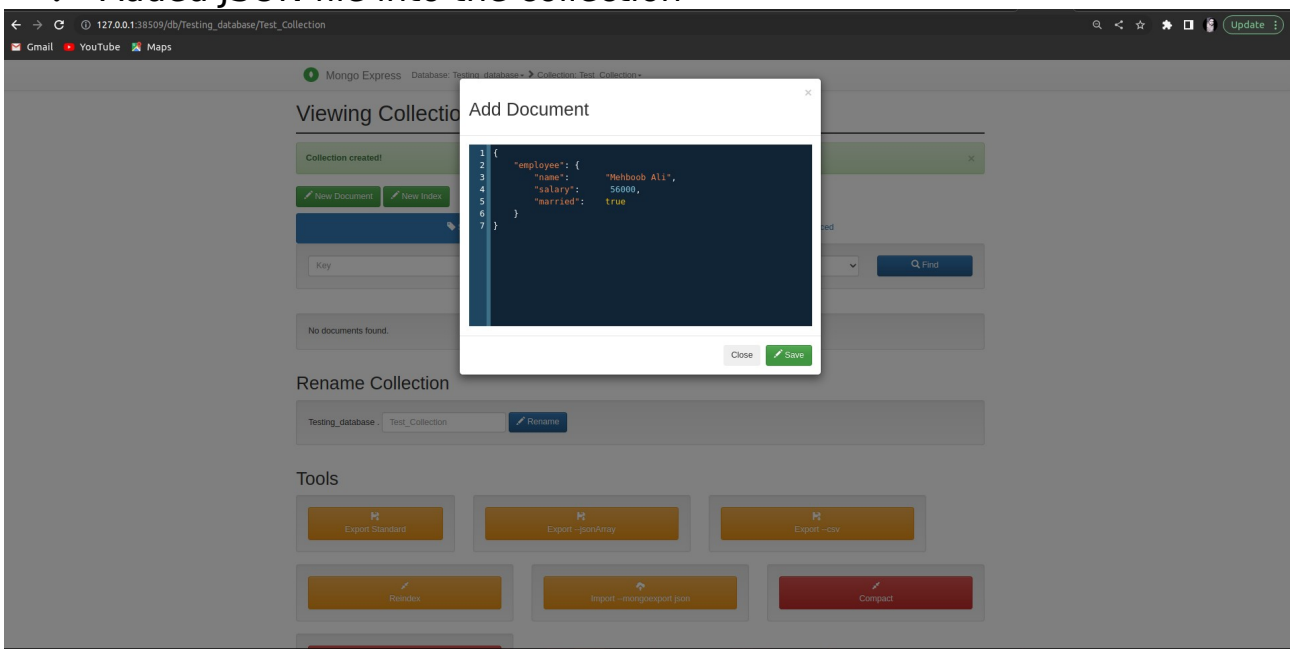
- ✔ Created DataBase named “Testing_database” on WebUI




- ✔ Created Collection named “Test_Collection”



- ✔ Added JSON file into the collection




## Step 4:

- ✔ Logged In the pod using Mongosh
- ✔ Accessed the DataBase and Collection
- ✔ Viewed the Output of the JSON Example.