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Subject :Operating Systems Lab
Lab TASK 3

Your task is to run mongo and mongo express containers using docker-compose. Once

you are able to access mongo express in browser, create database with your name and create collection with the name of your roll number within it.

Once collection is created add 20 employees data and each employee should have at least 5 fields in it like name, Id, address, contact, and department.

The compose file is provided in the attachment.

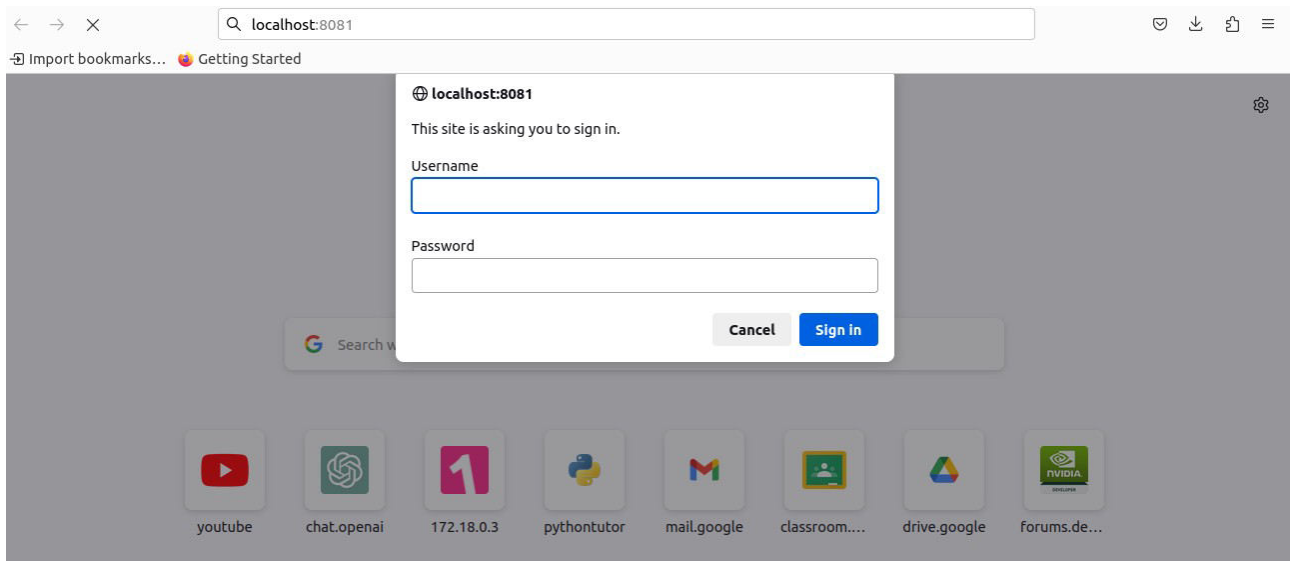
Take screenshots of running containers and the data you created in collection, and submit in PDF only.

Solution:

Open terminal and run following command:

```
ubuntu@ubuntu-Latitude-E5470:~/LAB TASK 3 OS$ sudo docker-compose up -d
[sudo] password for ubuntu:
Creating network "labtask3os_default" with the default driver
Pulling mongodb (mongo:...)
latest: Pulling from library/mongo
707e32e9fc56: Pull complete
c7ac84d07e95: Pull complete
ce678af55db4: Pull complete
e6212b74a0e2: Pull complete
08077ff6df71: Pull complete
5c1db0580f35: Pull complete
9d294053e6f8: Pull complete
c2aad3066658: Pull complete
e596cadf5785: Pull complete
Digest: sha256:d4e2a8cc40e141c9a2fc80b2ca7e747d2241f4203bed5bcd6842a8b31a3b6f6c
Status: Downloaded newer image for mongo:latest
Pulling mongo-express (mongo-express:...)
latest: Pulling from library/mongo-express
9398808236ff: Pull complete
ac3c8fa35fa4: Pull complete
b900a6941cb0: Pull complete
2fbc5ccb44c6: Pull complete
015089fb29df: Pull complete
2210794def7c: Pull complete
Digest: sha256:5506ffa048159510bf862648a0716f6ee93cd4b72dbc8e27680dcaa5f0f284c1
Status: Downloaded newer image for mongo-express:latest
Creating labtask3os_mongo-express_1 ... done
Creating labtask3os_mongodb_1 ... done
ubuntu@ubuntu-Latitude-E5470:~/LAB TASK 3 OS$
```

Now copy URL from docker-compose file and paste it on browser:

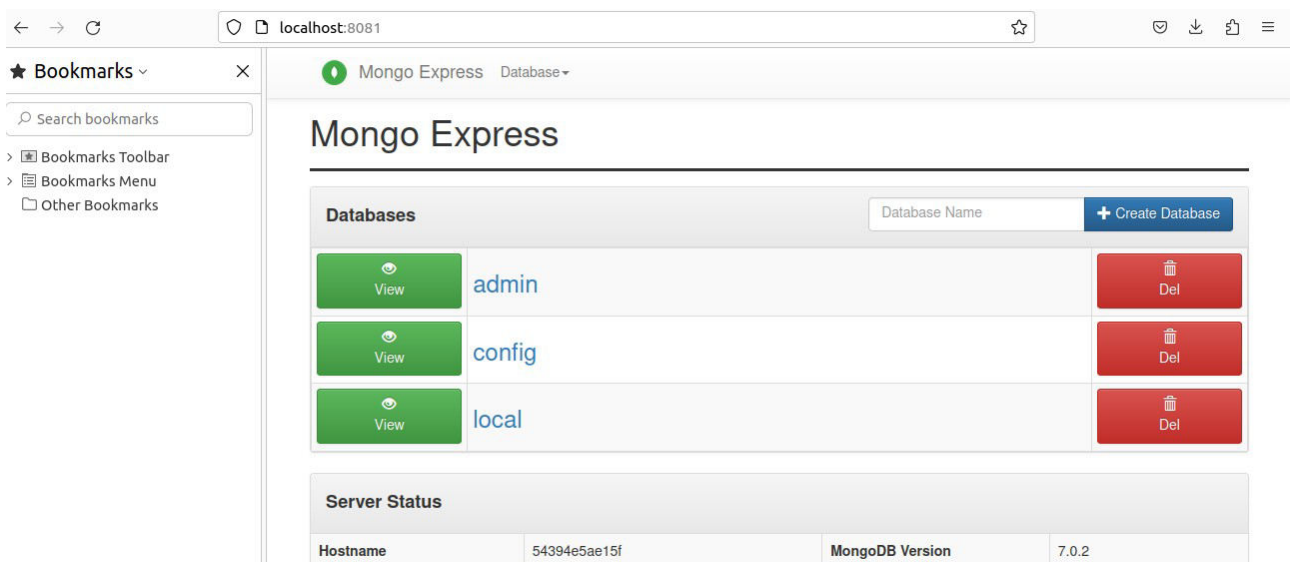


Type password and username:

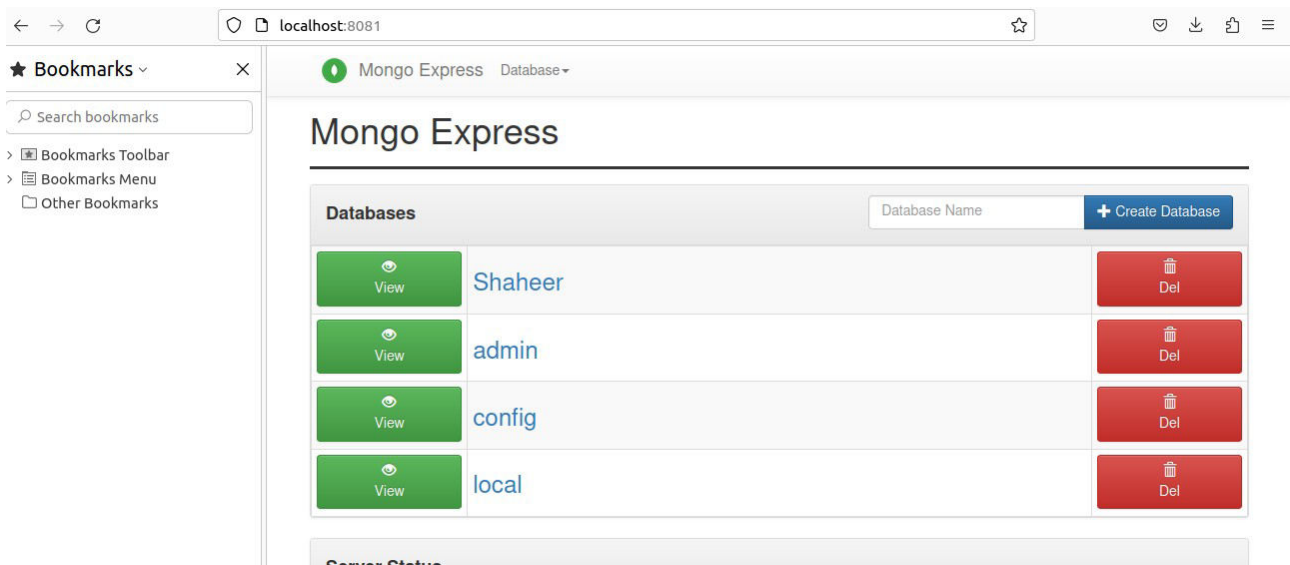
Username:admin

Password:pass

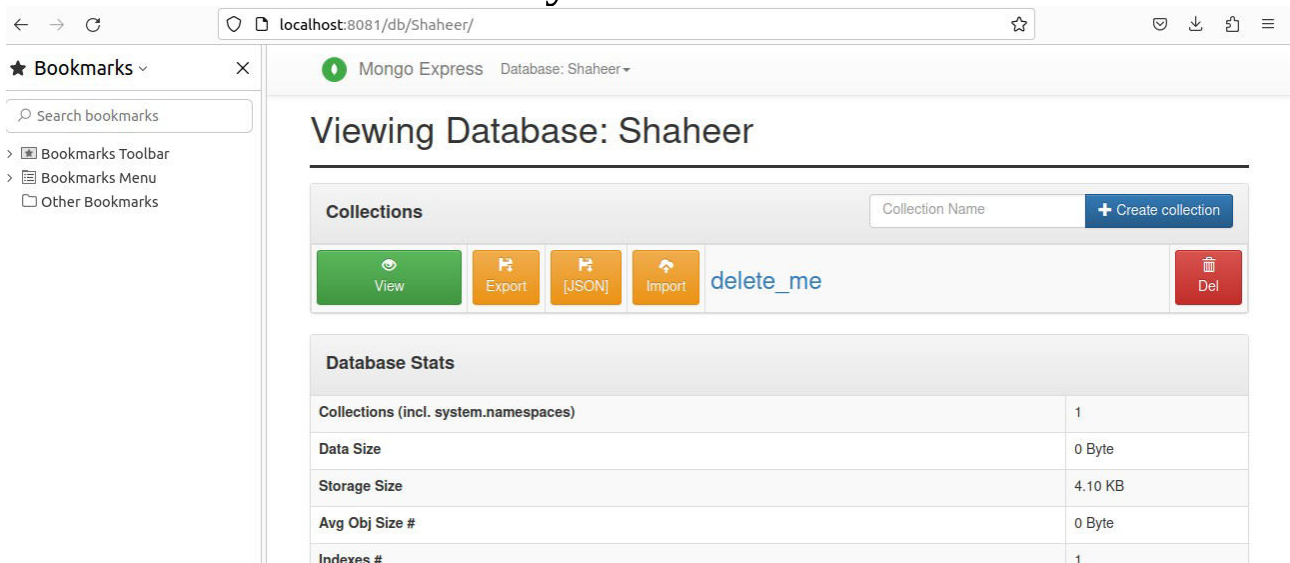
it login and screen appears:



Now create database of your name:



Now create collection of your roll no:



Now enter document and enter 20 enteries like this:

Editing Document: 65280fb78fc0f5993431d6a3

```
1 {
2   _id: ObjectId('65280fb78fc0f5993431d6a3'),
3   name: 'Muhammad Shaheer',
4   Id: 480,
5   address: 'Dera Ismail Khan',
6   contact: 'm.shaheer0480@gmail.com',
7   department: 'Project Management'
8 }
```

Now after entering 20 documents:

localhost:8081/db/Shahmeer/p200480

Mongo Express Database: Shahmeer Collection: p200480

Delete all 20 documents retrieved

← First Prev Next → Last →

_id	name	Id	address	contact	department
65280fb78fc0f5993431d6a3	Muhammad Shaheer	480	Dera Ismail Khan	m.shaheer0480@gmail.com	Project Management
65280ffb8fc0f5993431d6a4	Munzir kaleem	481	karachi	munzir@gmail.com	Developers
6528102d8fc0f5993431d6a5	Shahzaib	482	Chakwal	Shahzaib@gmail.com	Developers
652810718fc0f5993431d6a6	Rafay	483	Bahawalpur	Rafay@gmail.com	Developers
652810a98fc0f5993431d6a7	Muhammad Abdullah	485	Dera Ismail Khan	A@gmail.com	Management
652810d88fc0f5993431d6a8	Usama	486	chakwal	U@gmail.com	Management
652810fe8fc0f5993431d6a9	Osaid	487	dera	O@gmail.com	Electrical
6528112a8fc0f5993431d6aa	Abubakar	488	dera	A@gmail.com	Mechanical

And now check for terminal and check for container running by using commands:

```
ubuntu@ubuntu-Latitude-E5470:~/LAB TASK 3 OS$ sudo docker ps
[sudo] password for ubuntu:
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
54394e5ae15f   mongo         "docker-entrypoint.s..." 2 hours ago   Up 2 hours   0.0.0.0:27017->27017/tcp, :::27017->27017/tcp   labtask3os_
92e1fb2b6b34   mongo-express "/sbin/tini -- /dock..." 2 hours ago   Up 2 hours   0.0.0.0:8081->8081/tcp, :::8081->8081/tcp       labtask3os_
mongo-express_1
```