DEVOPS ASSIGNMENT 2

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BRANCH: M.TECH DATA ANALYTICS

Q1. A) Create a Container with PostgresDB or mySQL database installed

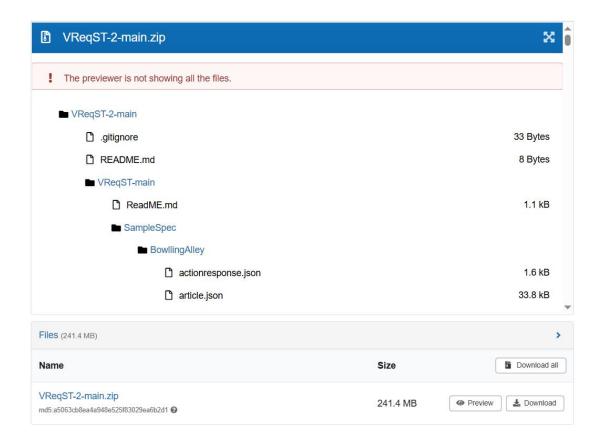You can spin up a MySQL container using this one-liner:

```
PS C:\Users\Hp> docker run --name mydb -e MYSQL_ROOT_PASSWORD=pass -e MYSQL_DATABASE=testdb -p 3306:3306 -d
 mysql:latest
>>
```

Verify it's running

```
PS C:\Users\Hp> docker ps
CONTAINER ID    IMAGE          COMMAND              CREATED        STATUS        PORTS
                NAMES
p, 33060/tcp    mydb
```

Q1 B) Deploy VReqST – A requirement specification tool in a container.

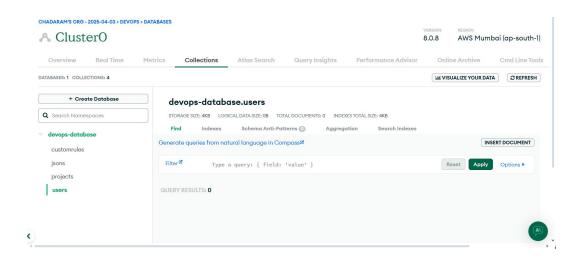Download and unzip the file

Setup Docker
Install Docker & Docker Compose - Ensure both Docker and Docker Compose are installed and working.
Create dock

Create Collections in MongoDB Atlas and use MONGO_URI

Create dockefile in different subdirectories


```
# frontend/Dockerfile
FROM node:14
WORKDIR /app
COPY . .
RUN npm install
RUN npm run client-install
EXPOSE 3000
CMD ["npm", "run", "dev"]
```

Dockerfile - Notepad

File Edit Format View Help

```
# validation_server/Dockerfile
FROM node:14
WORKDIR /app
COPY . .
RUN npm install
EXPOSE 5001
CMD ["nodemon", "index.js"]
```

Dockerfile - Notepad

File Edit Format View Help

```
FROM node:14
WORKDIR /app
COPY . .
RUN npm install
CMD ["node", "index.js"]
```

docker-compose build

docker-compose up -d

Open your browser and go to: **http://localhost:3000**