DEVOPS ASSIGNMENT 2

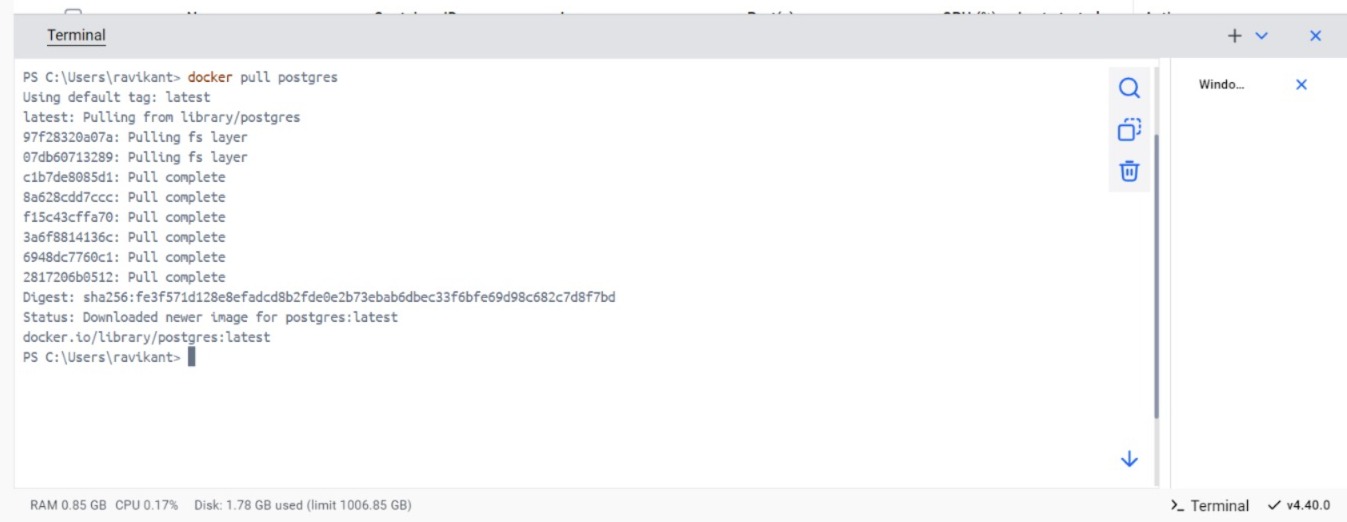
**Name:** Ravi Kant

**ROLL NO:** 205224028

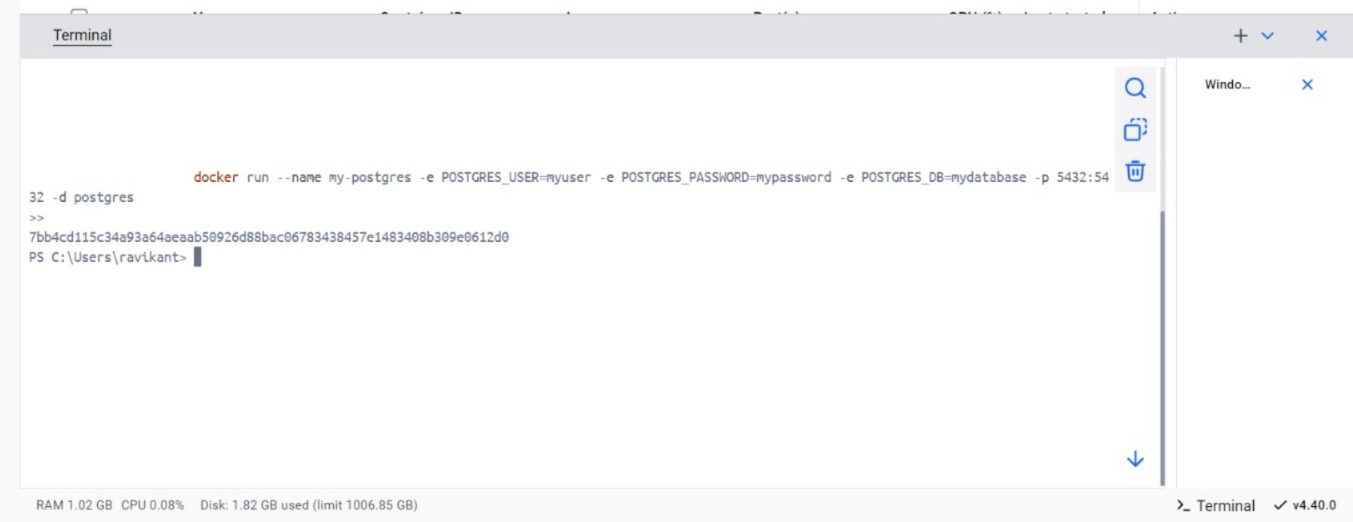
**BRANCH:** M.TECH DATA ANALYTICS

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

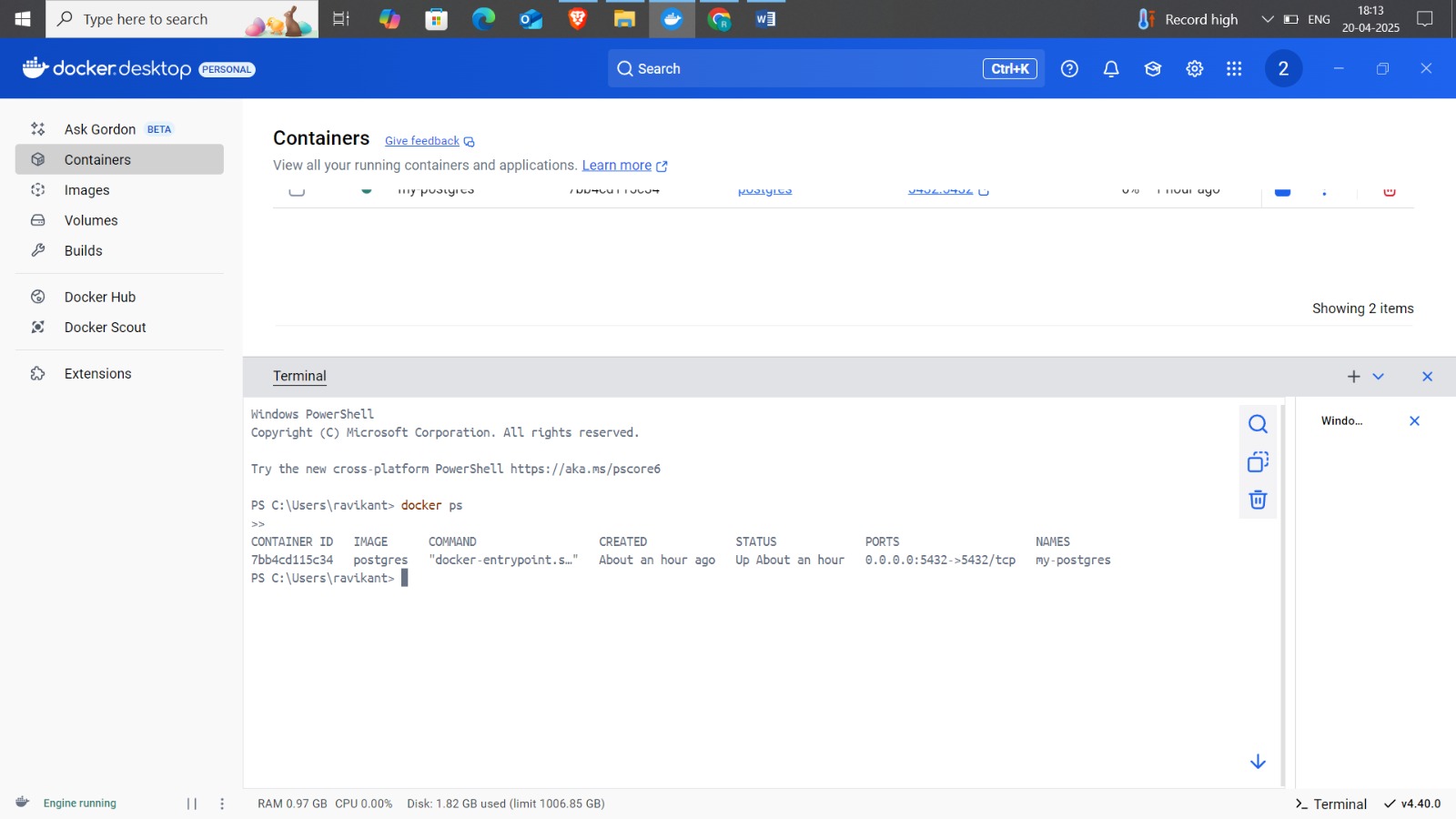
**Step 1:** We need to pull the docker image using the below command.



**Step 2:** Run the docker image using the Postgres credentials

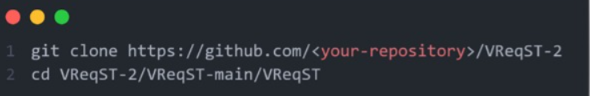


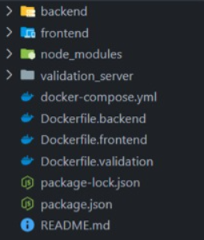
**Step 3:** Check whether the docker image is running or not



Q2

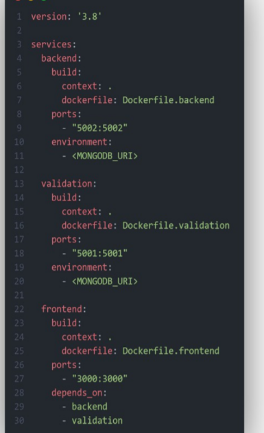
B) Deploy VReqST – A requirement specification tool in a container.

****Step 1: Clone the Repository

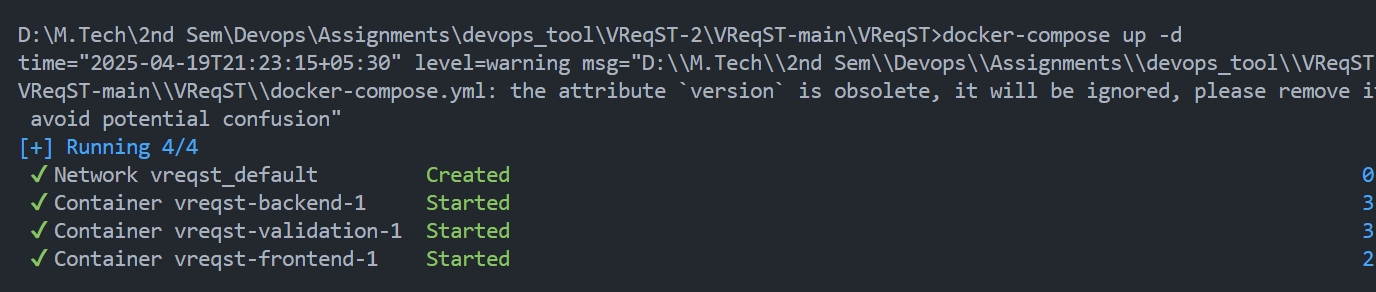
**Step 2:** Verify the folder structure

**Step 3:** Setup Docker

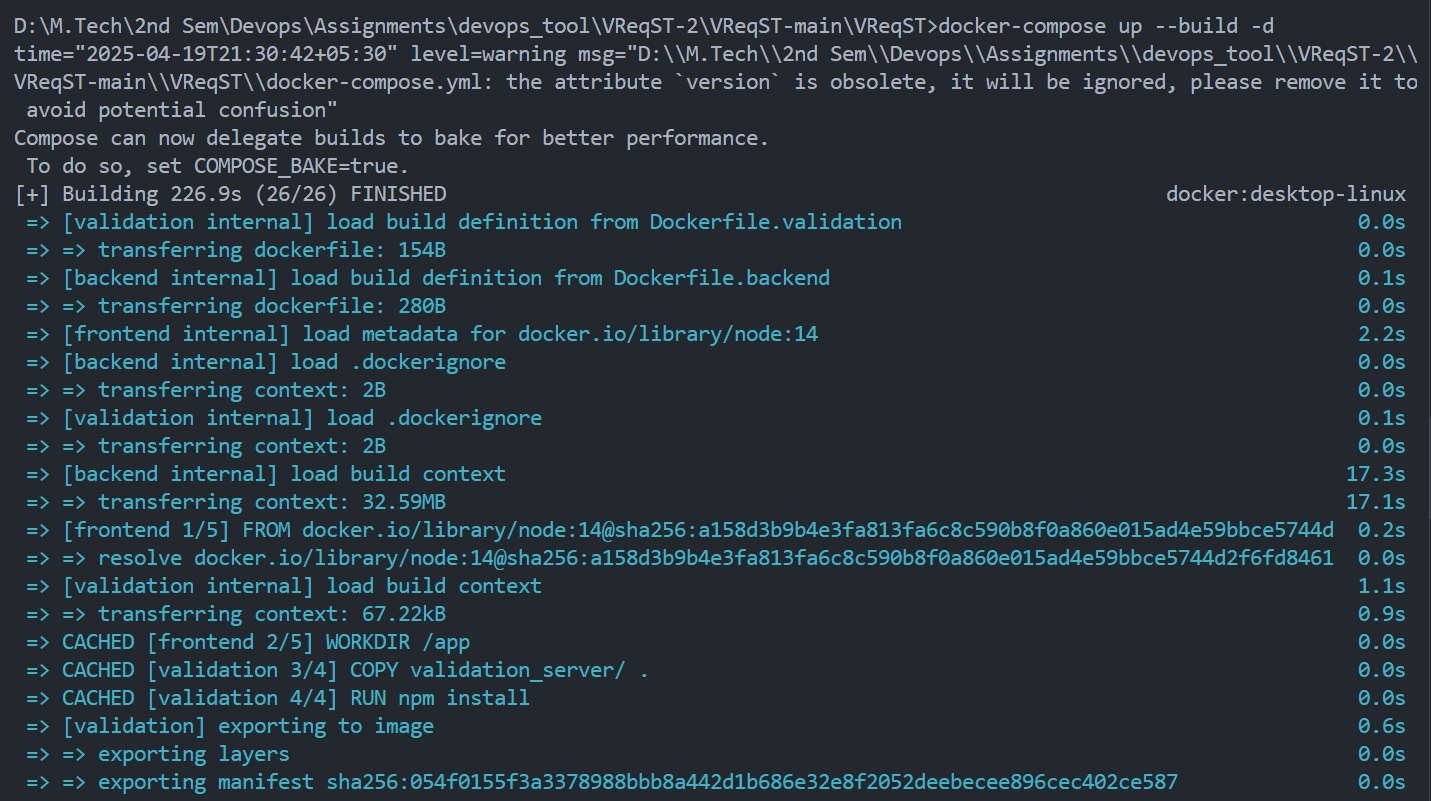
1. **Install Docker & Docker Compose -** Ensure both Docker and Docker Compose are installed and working.
2. **Create docker file `docker-compose.yml` -** Used to run the docker containers
3. **Create subfolders for different services** - Configure `Dockerfile.frontend`, `Dockerfile.backend`, `Dockerfile.validation`

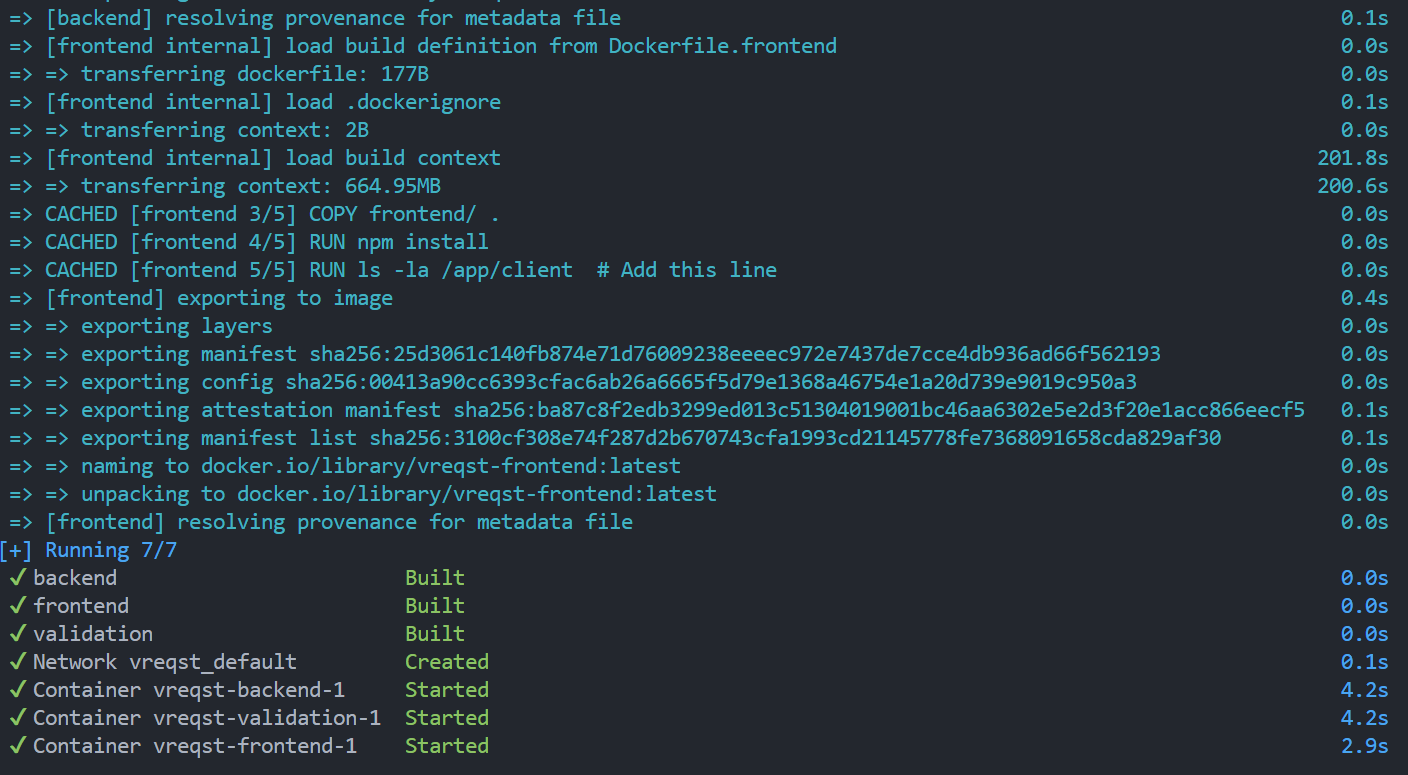


1. **Build and Start Container**

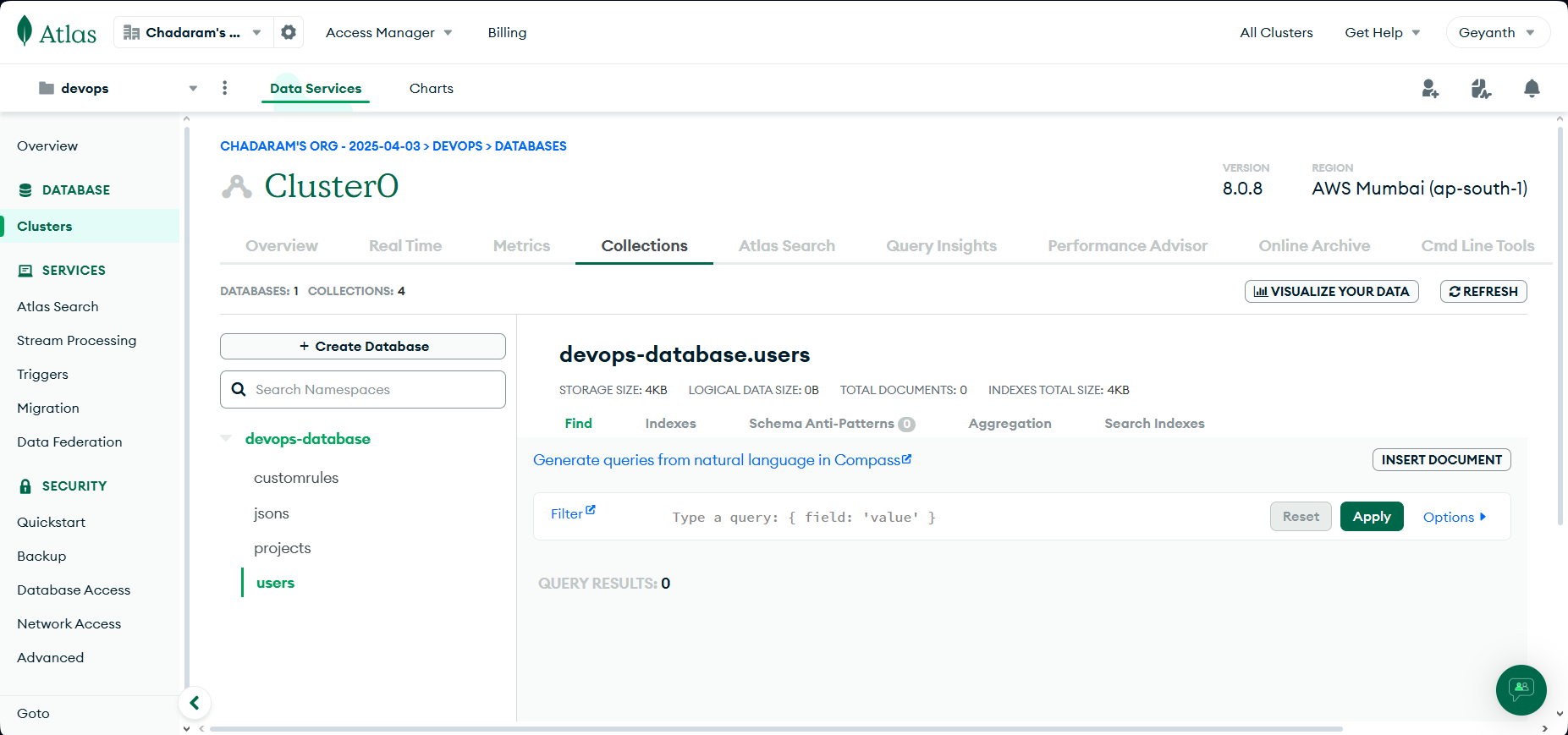
Outputs: 

* Running the Application





**Step 4:** Create Collections in MongoDB Atlas and use MONGO\_URI to link to the application (the link is given in docker-composer file)



**Step 5:** Access the Application

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

* Running the Application