## DevOps Assignment 2 Group members:Santhosh L, Anwar Hussain K P Roll no. 205224020

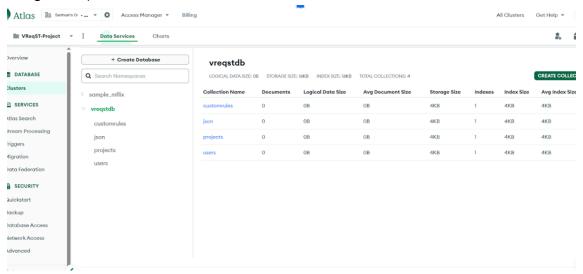
Q1 (B): Deploy VReqST – A requirement specification tool in a container.

## **Objective:**

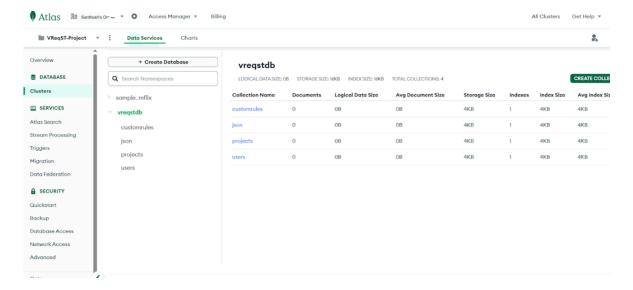
To deploy the VReqST (Virtual Reality Requirement Specification Tool) application using Docker, containerizing both the application and the associated MongoDB database service, ensuring proper database configuration and connectivity.

## **Setting up MongoDB Database:**

- Create a new Project within MongoDB Atlas.
- Inside the project, create a Database Cluster (free-tier is sufficient for this assignment).



- Once the cluster is created, define four collections within a new database using the following names:
  - customrules
  - isons
  - projects
  - users



 Update the application's server code to replace any local MongoDB connection string (e.g. mongodb://localhost:27017/vreqst) with the above cloud-hosted MongoDB Atlas connection string.

Typically, this connection string is found in either:

- backend/server.js
- o backend/app.js
- o or a configuration file such as backend/config.js or backend/config/db.js

## Writing the DockerFile and docker-compose.yml File:

Create a **Dockerfile** file in the project root directory with the following code: