Exp 6 Implementation of Database as a Service with MongoDB Atlas

12/08/24

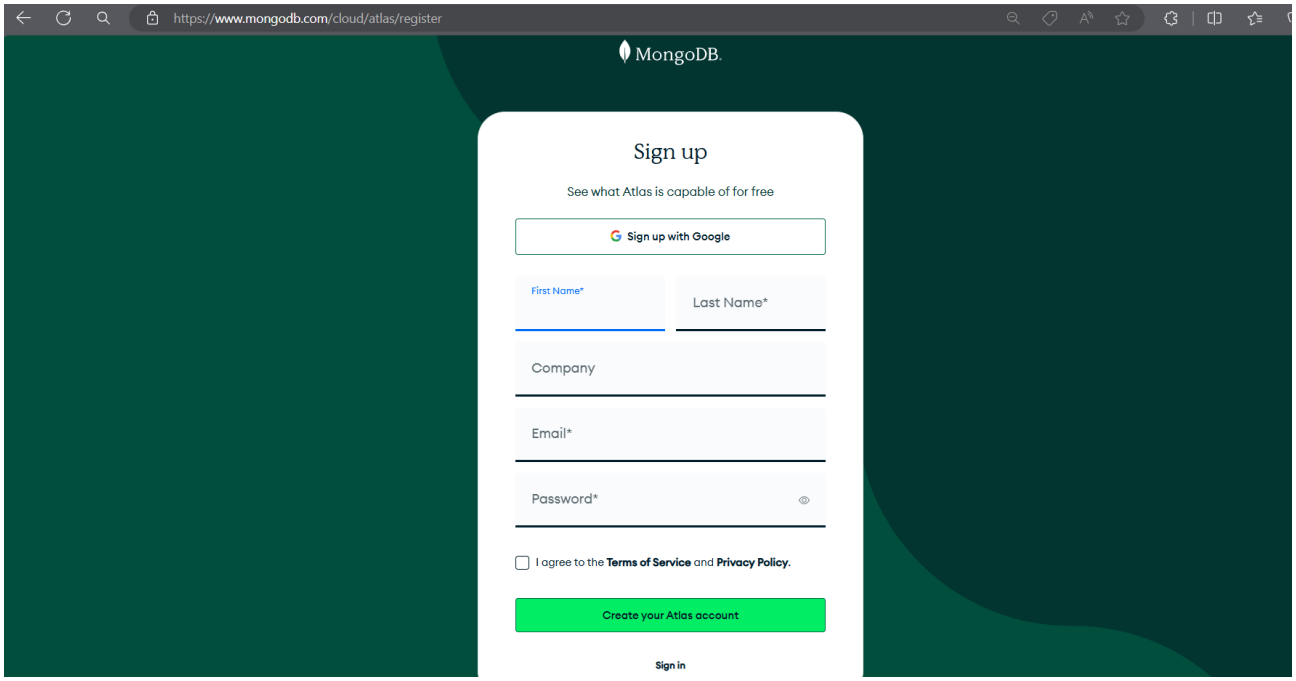
AIM:

To create the cluster in the Mongo DB (open source database) and also create the database in the cluster and performing following operations:

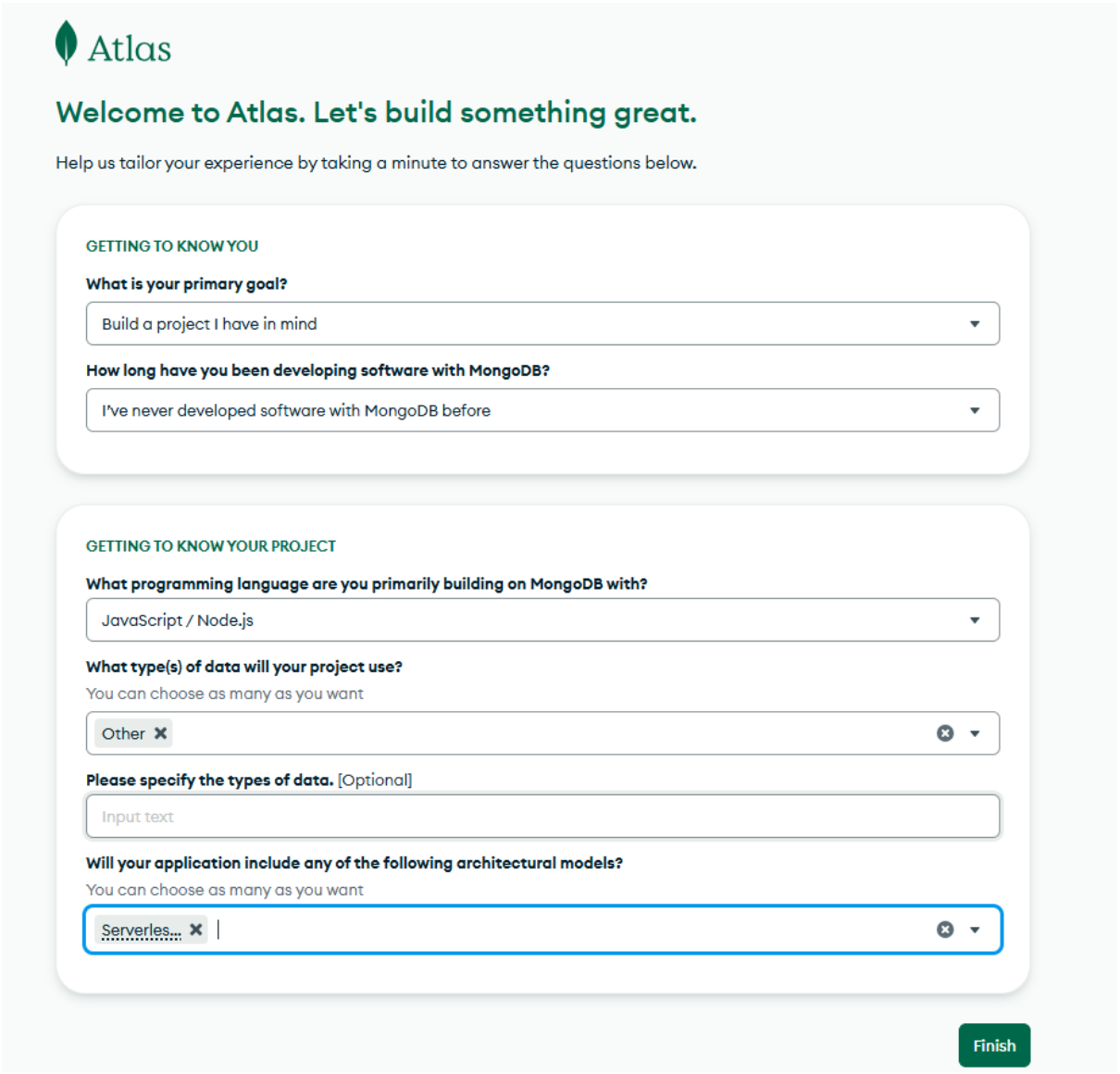
1) Insert One Record
2) Insert Many Records
3) List all the Records
4) List the Particular Record
5) Update the Record
6) Delete the Record

PROCEDURE:

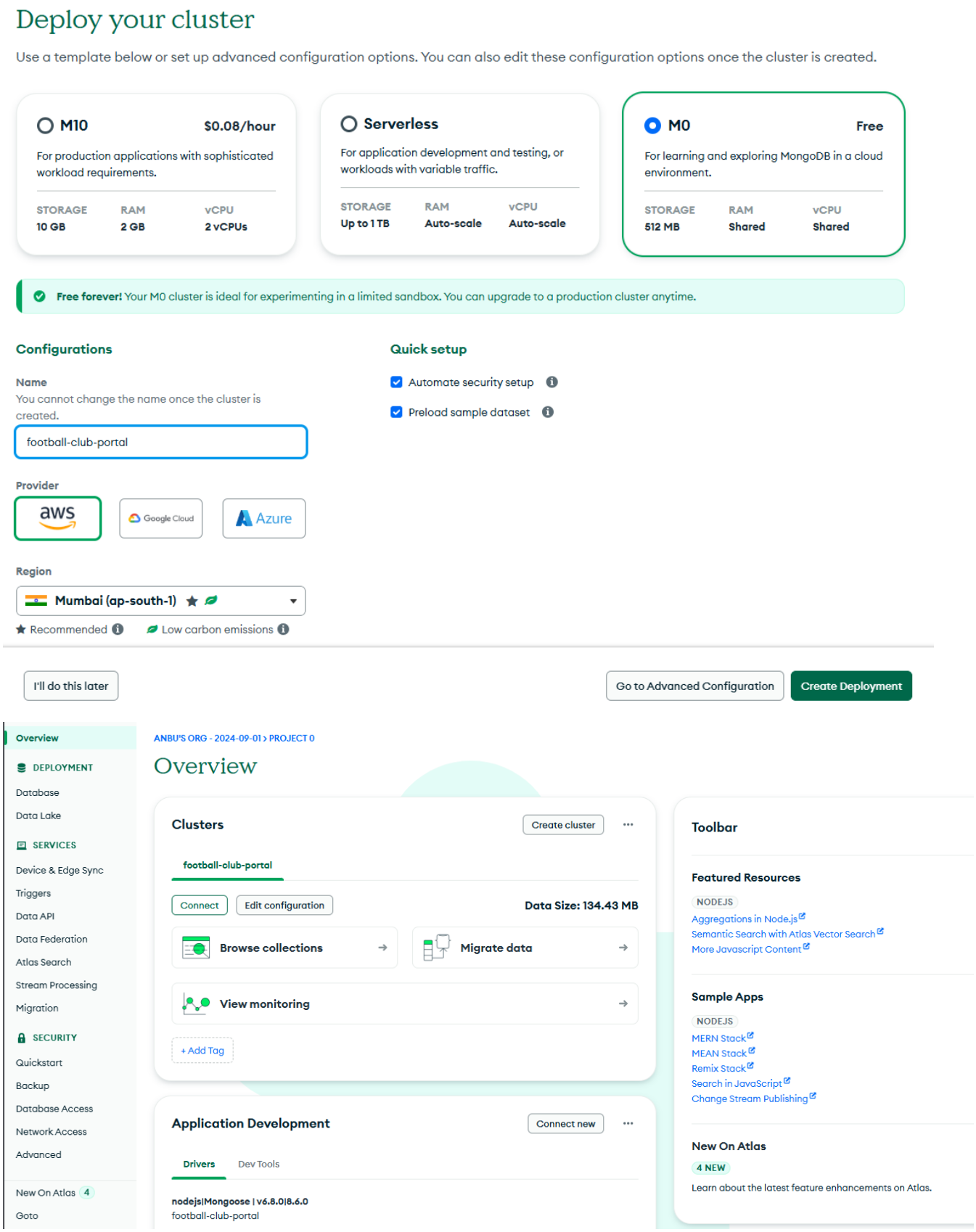
- **STEP 1:** Create a Account in the Mongo DB Atlas using your gmail account.



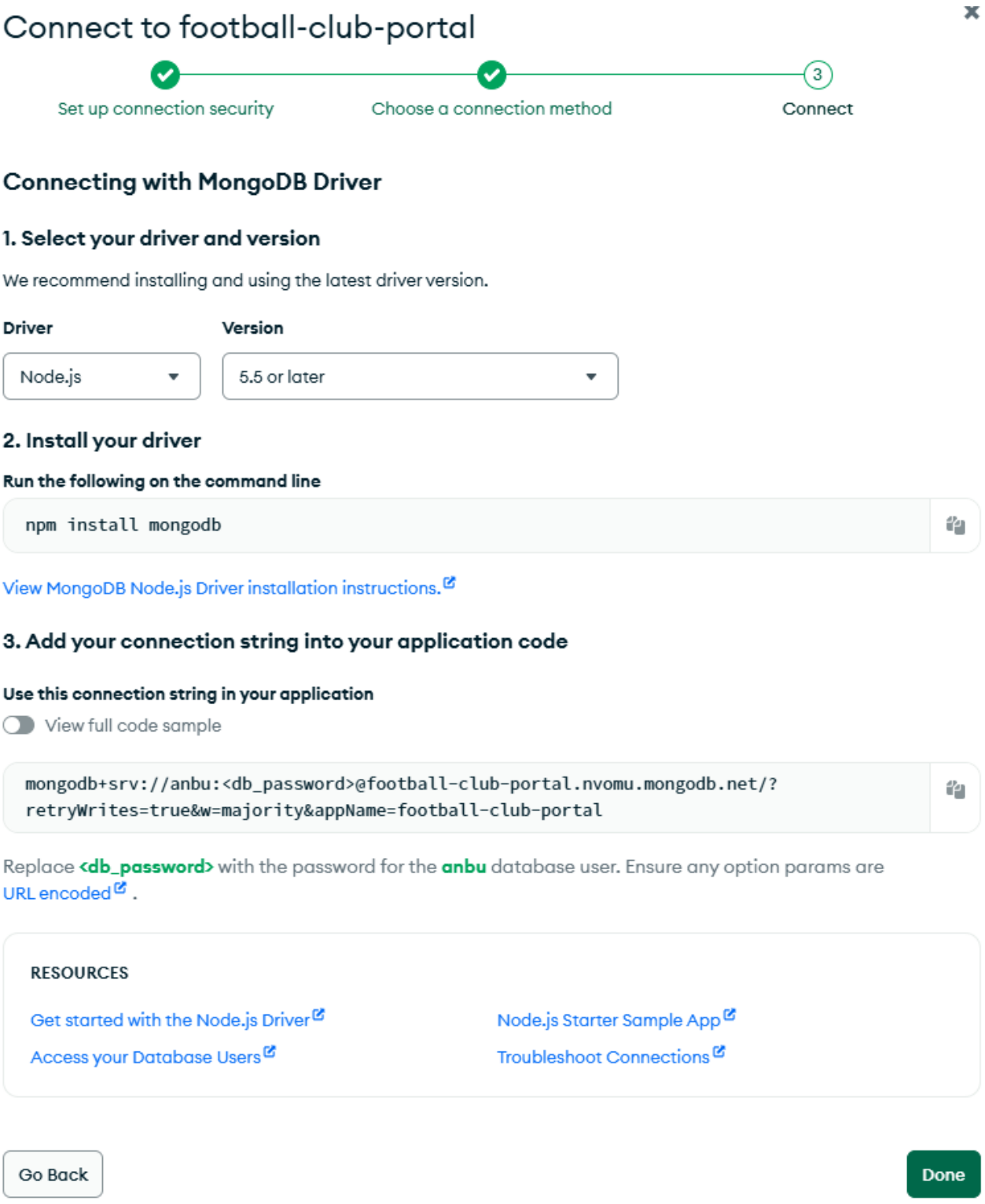
➢ **STEP 2:** Give details about your project.



- **Step 3:** Next it asks you to deploy your cluster. Templates, cluster name, provider and region are selected here.



➢ **Step 4:** Then, the connection set up process is done.



- **STEP 5:** Create a folder for your application and start building it.

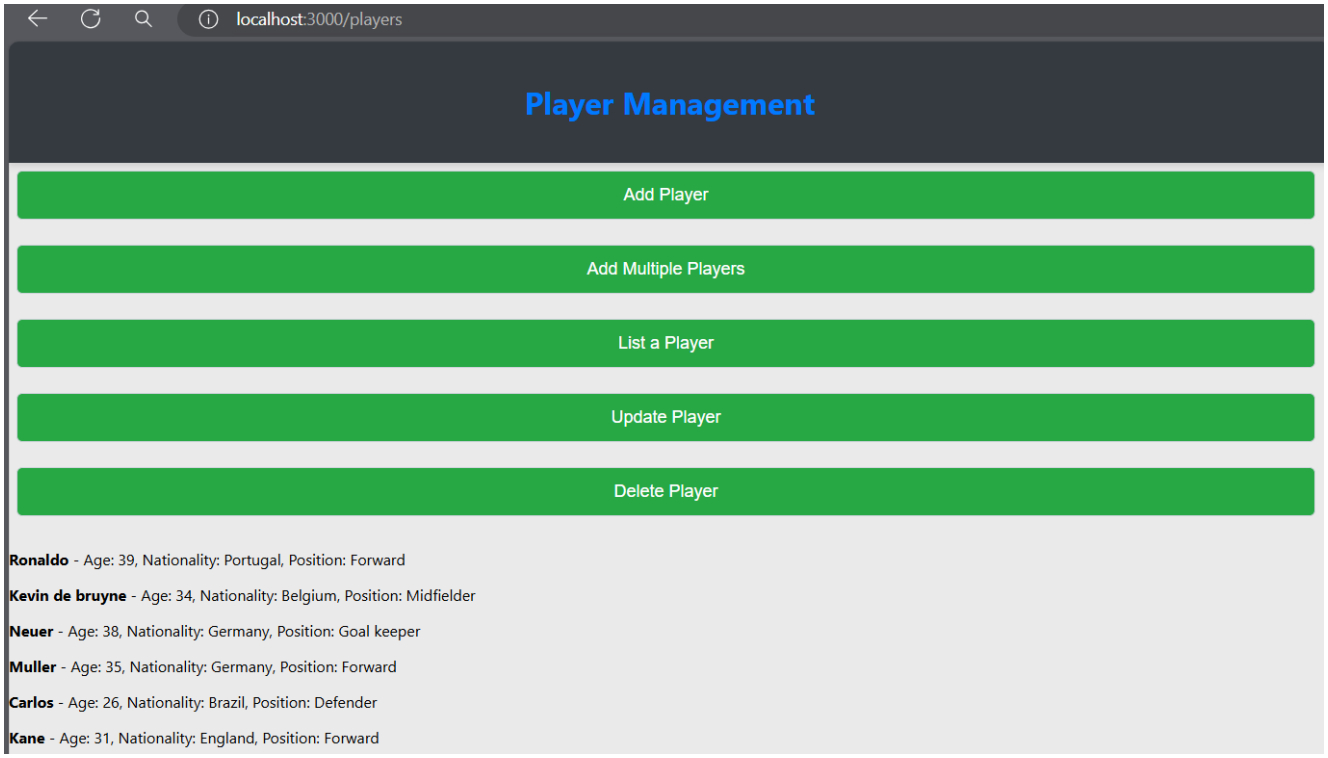
```
PS C:\Cloud\E7\football club portal> npm install

up to date, audited 13 packages in 3s

found 0 vulnerabilities
PS C:\Cloud\E7\football club portal> npm init -y
Wrote to C:\Cloud\E7\football club portal\package.json:

{
  "name": "football-club-portal",
  "version": "1.0.0",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "description": ""
}
```

```
PS C:\Cloud\E6\football-club-portal> npm install mongoose

up to date, audited 164 packages in 4s

26 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
PS C:\Cloud\E6\football-club-portal> npm install express

up to date, audited 164 packages in 2s

26 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
PS C:\Cloud\E6\football-club-portal> npm install express-openid-connect

up to date, audited 164 packages in 3s

26 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
PS C:\Cloud\E6\football-club-portal> npm install express mongoose body-parser ejs

up to date, audited 164 packages in 2s

26 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
PS C:\Cloud\E6\football-club-portal> npm install mongodb

up to date, audited 164 packages in 3s

26 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

- **Step 6: After building your application , run the server.**

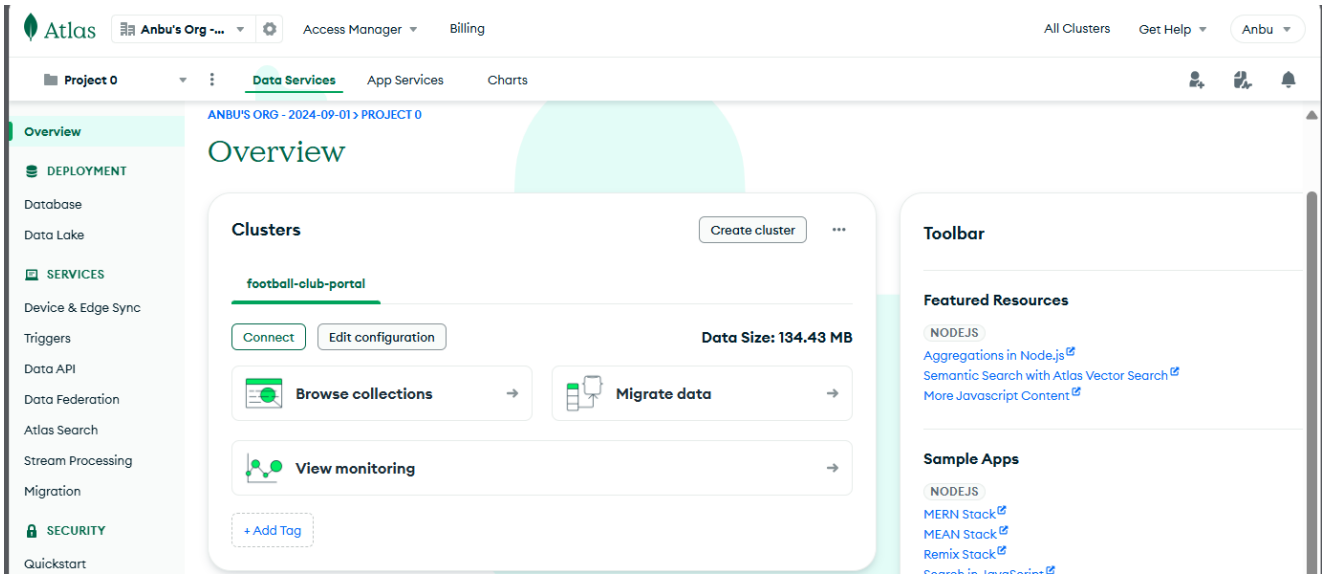
```
PS C:\Cloud\E6\football-club-portal> node app.js
Server is running on http://localhost:3000
Connected to MongoDB Atlas
```

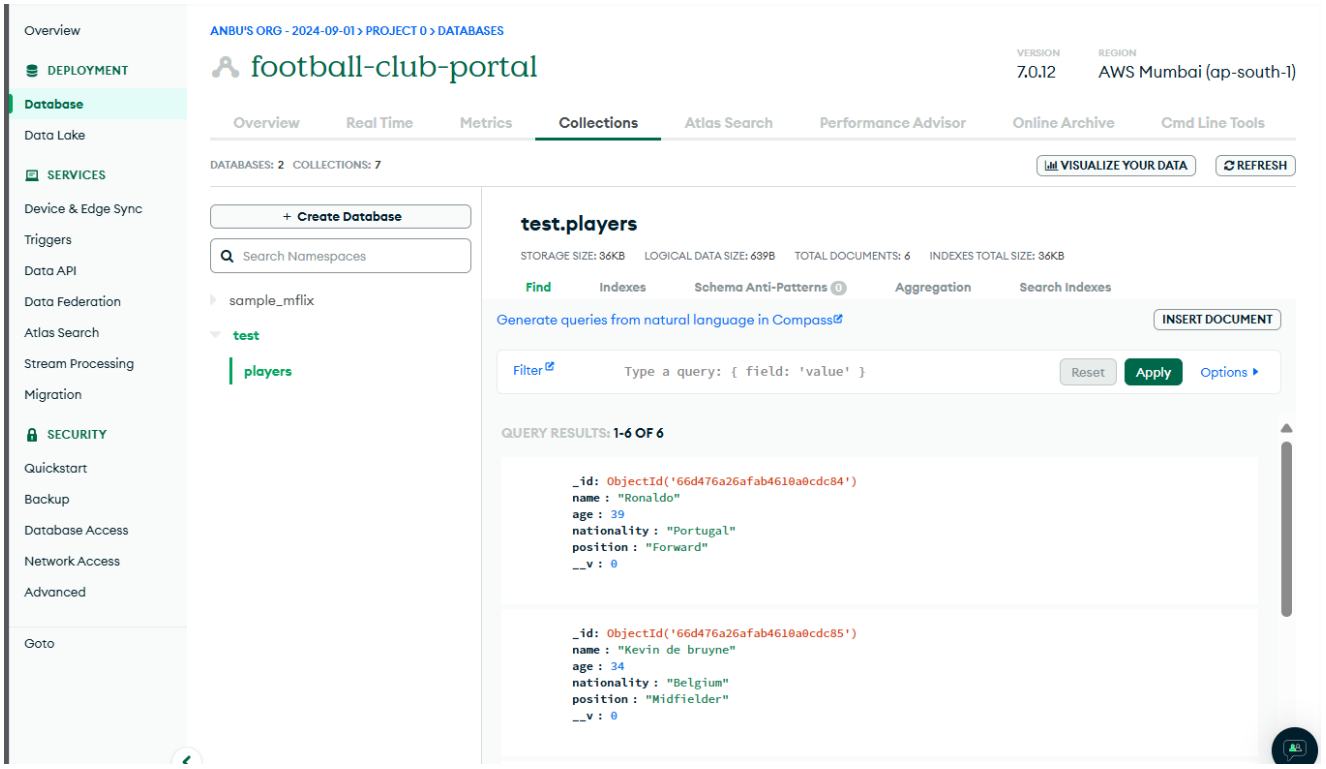
Visit : http://localhost:3000/



It displays all the players stored in the database and also you can add a player and multiple players, list a specific player using id, update player's details using id and delete a player using id.

- **Step 7 :** The records can be seen in your mongodb atlas: Browse collections> Collections>test>players. Also any operations done at the application will be reflected here.





RESULT:

Thus, the creation of the cluster in the Mongo DB (open source database), creation of database in the cluster and performing following operations: Insert One Record , Insert Many Records, List all the Records ,List the Particular Record ,Update the Record and Delete the Record have been executed successfully.