# Moviebookingapplication

### Java FSE1

## **Springboot-React-GCP**

Backend - GitHub

Frontend - GitHub

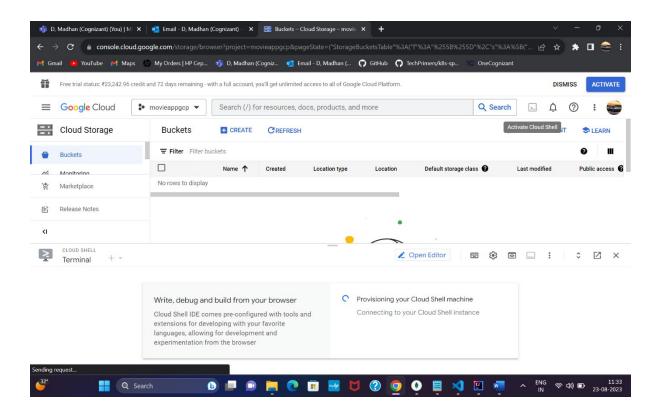
#### **GCP Deployment Steps**

Create MongoDB atlas by selecting GCP as a service and create one connection
 After creating connection, you will get uri like this

spring.data.mongodb.uri=mongodb+srv://test:test@cluster0.pbg51uc.mongodb.net/?retryWrites=true&w=majority
spring.data.mongodb.database=<u>movieapp</u>

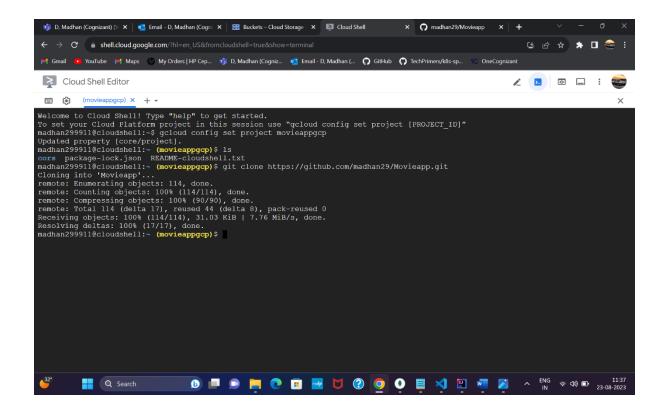
Update this in application properties.

- 2. Push the updated code to your git repo.
- 3. Now go to GCP console and activate the cloud shell

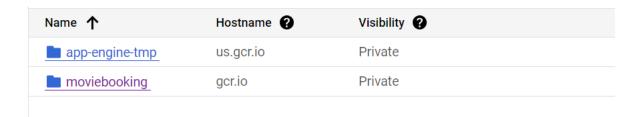


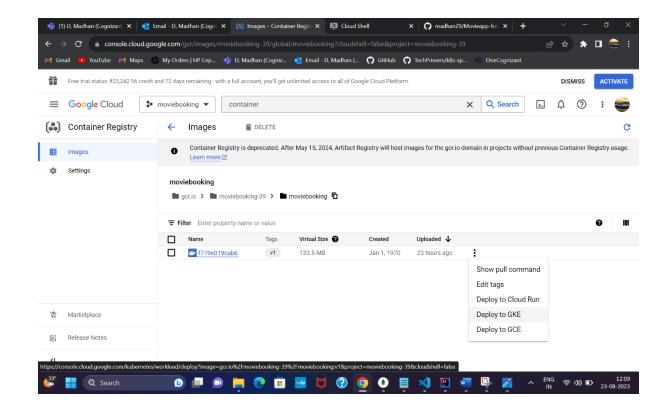
4. In cloud shell select your project by using following command if it's not selected default gcloud config set project [PROJECT ID]

5. Clone your git repo here – git clone your repo URL.

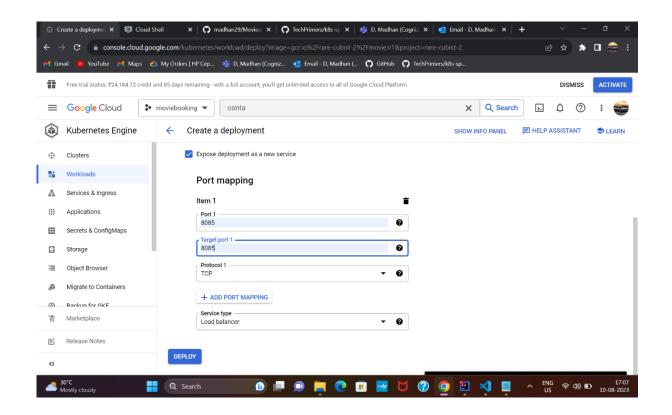


- 6. Now select your file using cd your filename.
- 7. Run mvn clean install, to build your backend.
- 8. After build completed you need to create docker image for your backend application. Use this command mvn com.google.cloud.tools:jib-maven-plugin:build -Dimage=gcr.io/your gcp project-id /your containername:v1
- 9. After running this command your docker image will be created and stored in container registry in GCP.





From Here to choose to deploy to GKE.



Here Choose your port which your backend running and expose it and click deploy.

# Exposing services ②

| Name ↑               | Туре          | Endpoints                       |
|----------------------|---------------|---------------------------------|
| moviebooking-service | Load balancer | <u>107.178.216.181:8085</u> [2] |

From using this IP you need to update the frontend code like this.

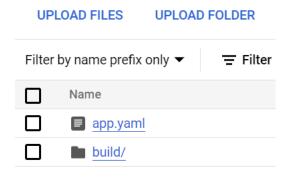
After updating all your endpoint you need to create build file for your frontend using npm run build command this will give a build file which needs to deploy on GCP.

After that you need to create app.yaml file for deploying it your application to app engine.

app.yaml

```
runtime: nodejs16
handlers:
    # Serve all static files with url ending with a file extension
    - url: /(.*\..+)$
    static_files: build/\1
    upload: build/(.*\..+)$
    # Catch all handler to index.html
    - url: /.*
    static_files: build/index.html
    upload: build/index.html
    http_headers:
        Access-Control-Allow-Origin: "*"
```

Then go to Cloud Storage and create new bucket



and update your build folder and app.yaml file to your bucket

after go to cloud shell create new folder using mkdir foldername command.

Then you need to copy your bucket to newly created folder using the below command

gsutil rsync -r gs://yourbucket ./yourfolder

after that select your folder by run cd yourfoldername.

After selecting your folder run **gcloud app deploy** your application to App engine.

After deploying your application to app engine, you will get URL for accessing your application.

https://moviebooking-39.uc.r.appspot.com/ like this. (By using this link, you will get SSL certificate issue)

Make sure to run using http instead of using https.

And you will CORS error after changing it to http for fix this you need to disable cors in google chrome using the below command.

cd C:\Program Files (x86)\Google\Chrome\Application

chrome.exe --user-data-dir="C:/Chrome dev session" --disable-web-security

C:\Program Files (x86)\Google\Chrome\Application – select your chrome installed path.

C:/Chrome dev session – change a folder in your drive.

That's all now your application will work without any issue.

Will attach YouTube tutorials I followed to deploy this

Backend deployment – Click here

Frontend deployment – Click here

Disable cors – Click here

GitHub link for GKE commands – Click here

**Thanks**