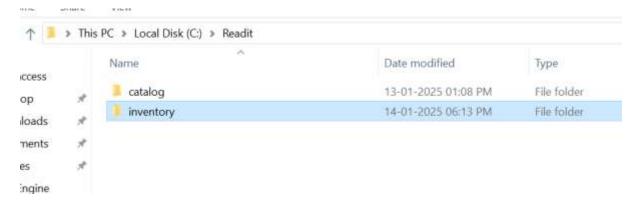
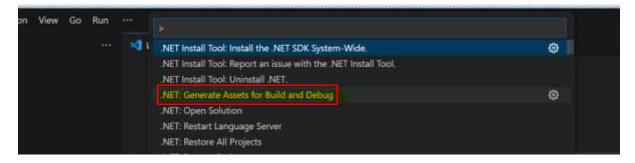
Introduction:-

In this lab we will create a Flexible app service at GCP App Engine using code. Here we will first test the code on our local pc and then deploy it to GCP App Engine. We will test the application and also check the underlying infrastructure being used for this app.

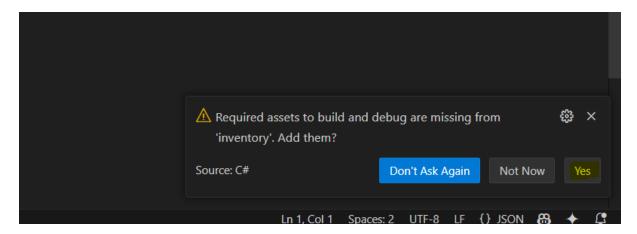
- 1) Extract the "inventorybaseline" zip folder and copy the inventory folder to the ReadIt folder. You can get the inventory baseline zip folder from GitHub, so, first download it.
- 2) Then you need to copy the inventory folder you get from the zip file and paste it in the same folder where you have the catalog folder stored on your local machine.



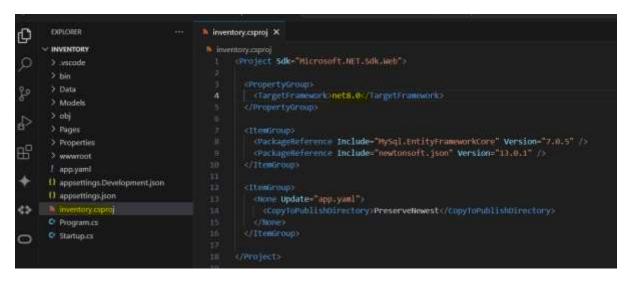
3) Open this folder in VS Code, and also in VS Code go to View > Command Palette and run .Net Generate Assets...... like earlier



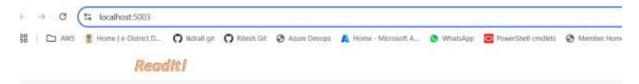
4) If see pop-up regarding debug missing, click yes



5) Also, make sure the target framework is net8.0 in inventory.csproj file



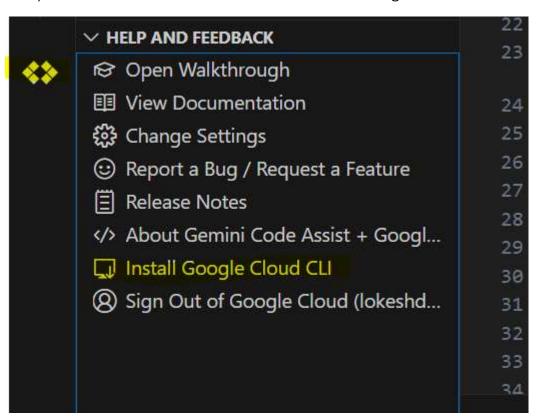
6) Press F5 to run the code, once it completes it should open the inventory webpage



Manage Inventory

Nothing to see here folks :-)

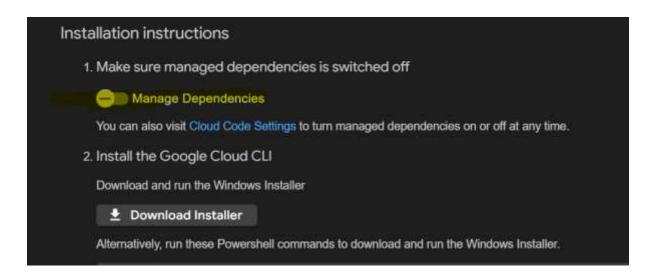
- 7) In VS Code, you can optionally go to index.cshtml file under pages to see the code
- 8) Go to cloud code in VS Code and click install Google Cloud CLI



9) If you see error below



10) First, turn **off** manage dependencies, then click download installer



11) This will ask to download the installer from the browser, download and run it as an administrator.

Install the installer, also make it for all users.

- 12) Follow all installing instructions by keeping default, after finish when ask to configure, say **y**, select your project and say **n** when ask to set default regions
- 13) Restart vscode
- 14) (**Error**) In case see an error saying like "gcloud: File C:\Program Files (x86)\Google\Cloud SDK\google-cloud-sdk\bin\gcloud.ps1 cannot be loaded. The file C:\Program Files (x86)\Google\Cloud SDK\google-cloud-sdk\bin\gcloud.ps1 is not digitally signed......", then open PowerShell via admin and run the below command Set-ExecutionPolicy -ExecutionPolicy Unrestricted
- 15) Run gcloud config get-value project to confirm your project is selected

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMINION PS C:\Readit\inventory> gcloud config get-value project lokeshp1

16) Now you need to create an app.yaml file inside your inventory folder and use the code given below.

runtime: aspnetcore

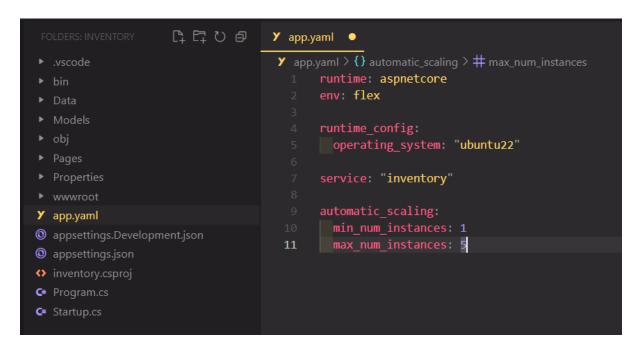
env: flex

runtime_config:

operating_system: "ubuntu22"

service: "inventory"

automatic_scaling:
 min_num_instances: 1
 max_num_instances: 5



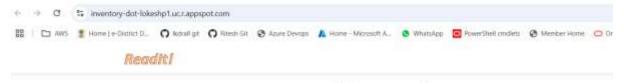
17) Run the **gcloud app deploy -v v1** (here this name v1 can be anything, as we want to keep it for the version name) command at VSCode

```
PS D:\Google CLoud\GCP-Professional\Module-3 App Engine\ReadIt\inventory> gcloud app deploy -v v1
Services to deploy:
descriptor:
                            [D:\Google CLoud\GCP-Professional\Module-3 App Engine\ReadIt\inventory\app.yaml]
                            [D:\Google CLoud\GCP-Professional\Module-3 App Engine\ReadIt\inventory]
source:
                             [still-kit-459403-e2]
target project:
target service:
                             [inventory]
target version:
                             [v1]
target url:
                             [https://inventory-dot-still-kit-459403-e2.uc.r.appspot.com]
target service account:
                           [still-kit-459403-e2@appspot.gserviceaccount.com]
Do you want to continue (Y/n)? y
```

18) Now go to GCP and under services, there will be a new entry named inventory (or the same name as mentioned at "service" in app.yaml file



19) Now, click the "inventory" service name, and it should open the inventory page



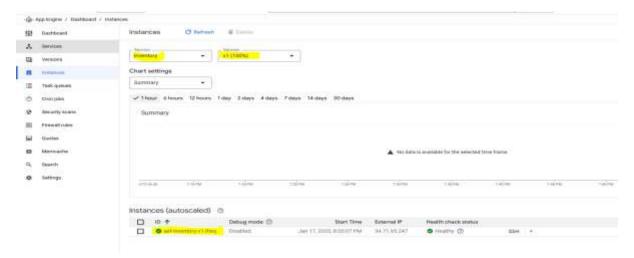
Manage Inventory

Nothing to see here folks :-)

20) Go to versions, select inventory, and you will see the version name (v1) as we put in in app.yaml file while running the app deploy command, also see the environment as Flexible



- 21) Click at the instance
- 22) This will show all details related to the infrastructure running underneath



23) Also verify version data, it would be similar to what we gave in app.yaml file

