National University of Sciences and Technology (NUST)
School of Electrical Engineering and Computer Science

Department of Computing

SE-315: Cloud Computing

Lab 08: App Dev - Storing Application Data in Cloud Datastore: Python

Date: 13.11.24

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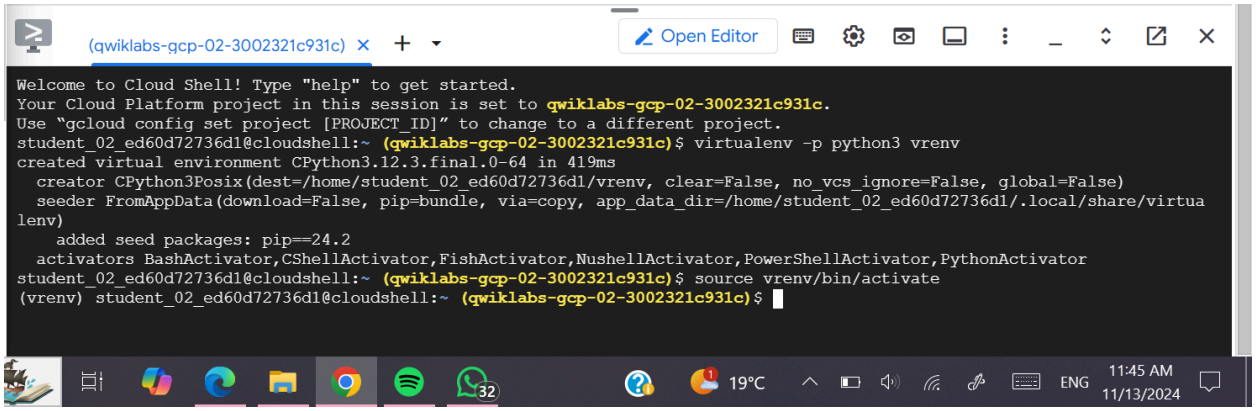
Introduction:

In this lab, you create a Cloud Storage bucket and place an image in it. You also configure an application running in Compute Engine to use a database managed by Cloud SQL. For this lab, you configure a web server with PHP, a web development environment that is the basis for popular blogging software. Outside this lab, you will use analogous techniques to configure these packages.

You also configure the web server to reference the image in the Cloud Storage bucket.

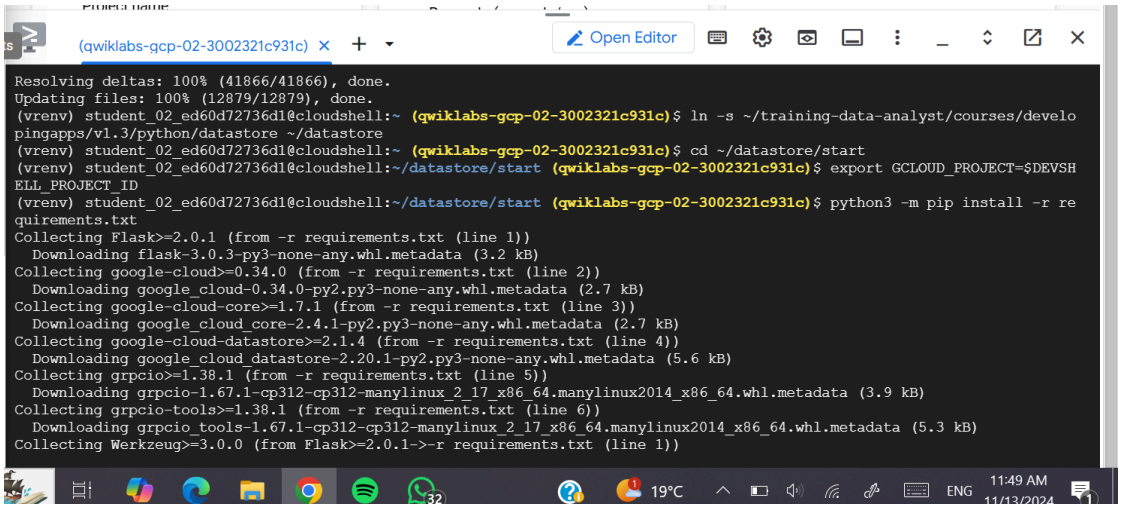
Follow the **'App Dev: Storing Application Data in Cloud Datastore – Python'** Setup and requirements.

1. Create a virtual environment

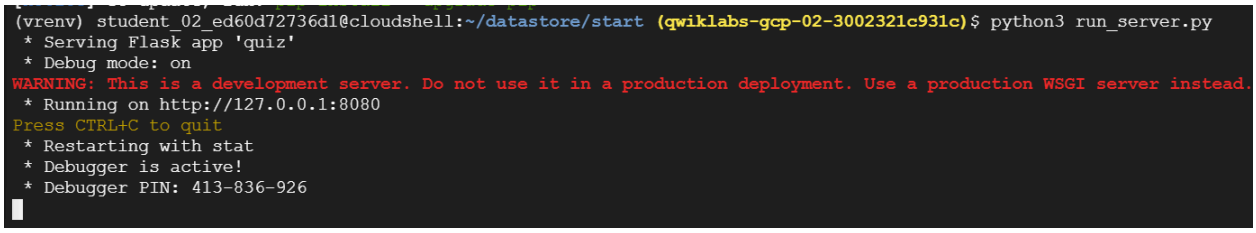


2. Prepare the Quiz application

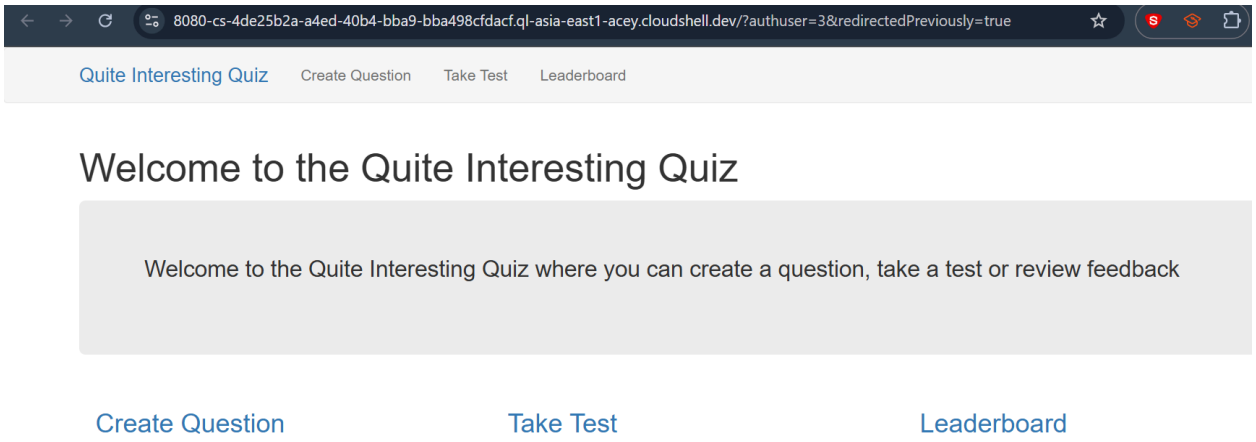
cloning the repository and running the python application;



Python server is running!!

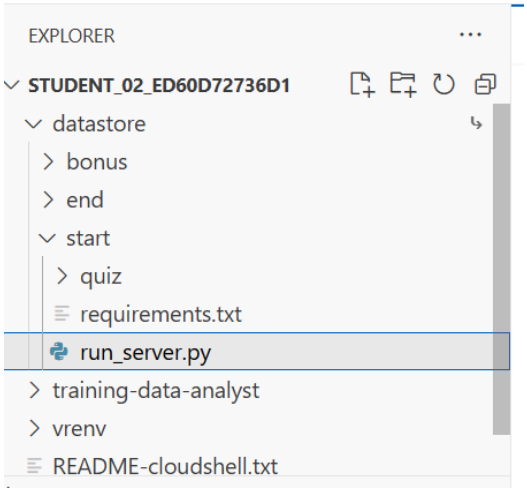


Viewing the web preview of quiz application through port 8080.

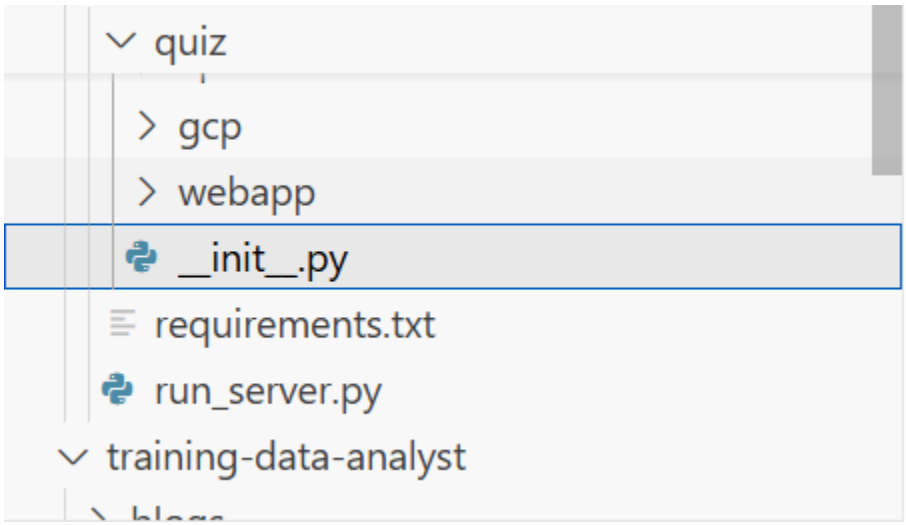


3. Examine the Quiz application code

examining the run_server.py file:

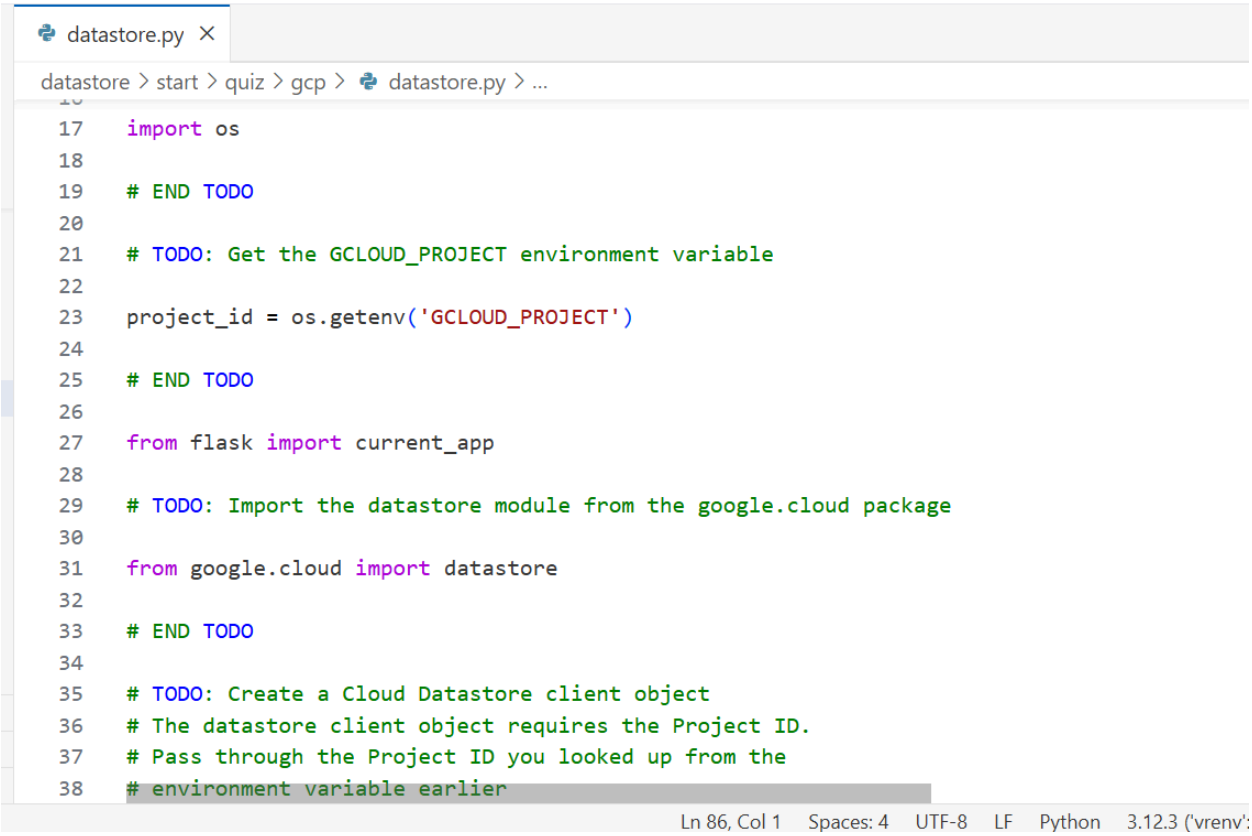


examining quiz/init_.py file:

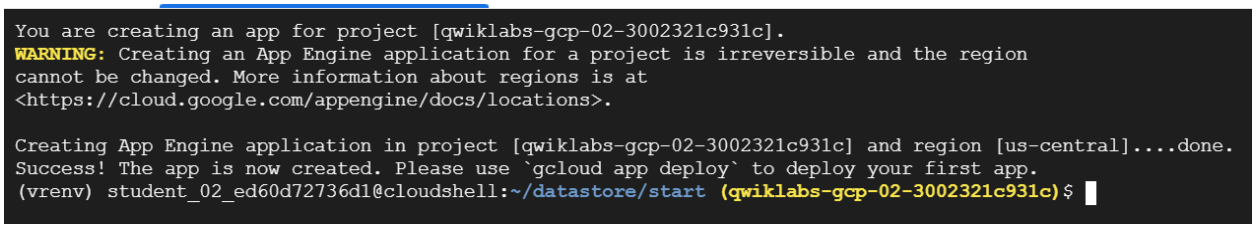


4. Adding entities to Cloud Datastore

Importing and using the Python Datastore module;

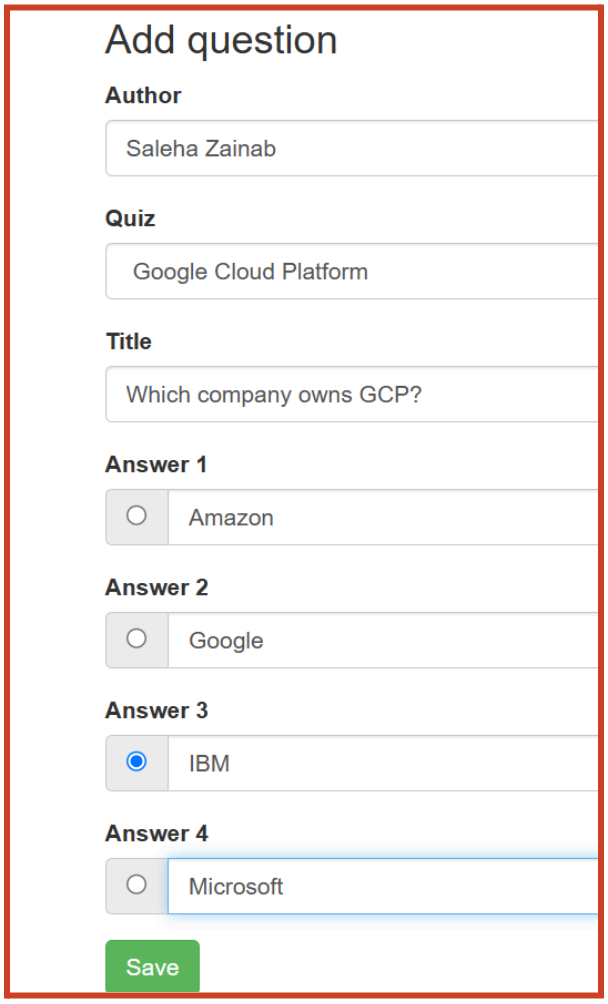


Now, I will Create an App Engine application to provision Cloud Datastore, screenshot shows that the App engine has successfully been created.

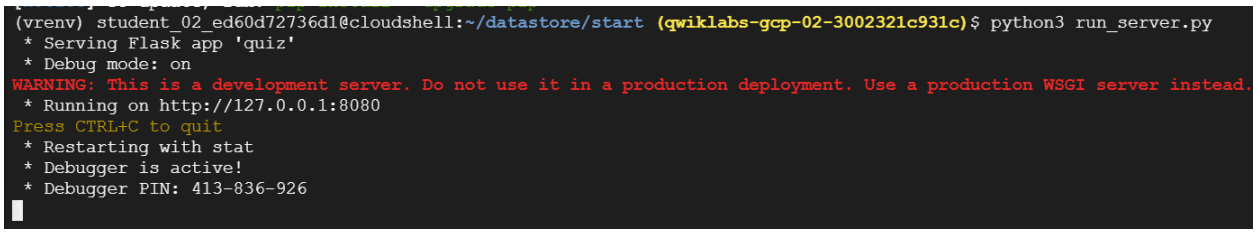


after running the application and creating a Cloud Datastore entity, I will create a quiz question;

creating a quiz question:

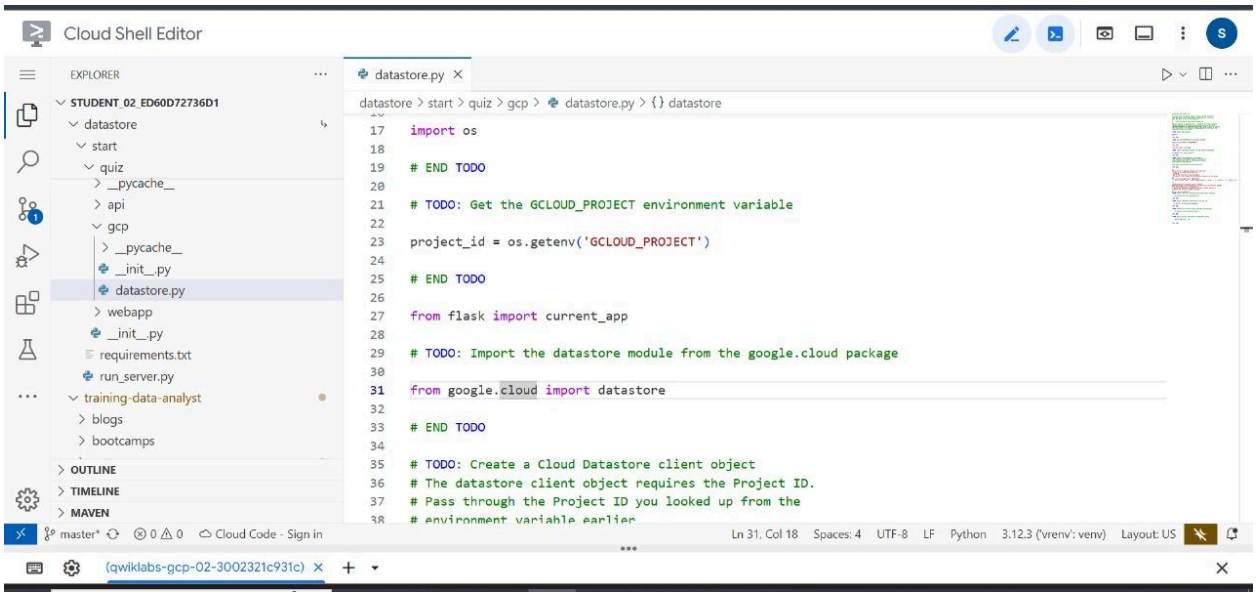


running the Python server again;

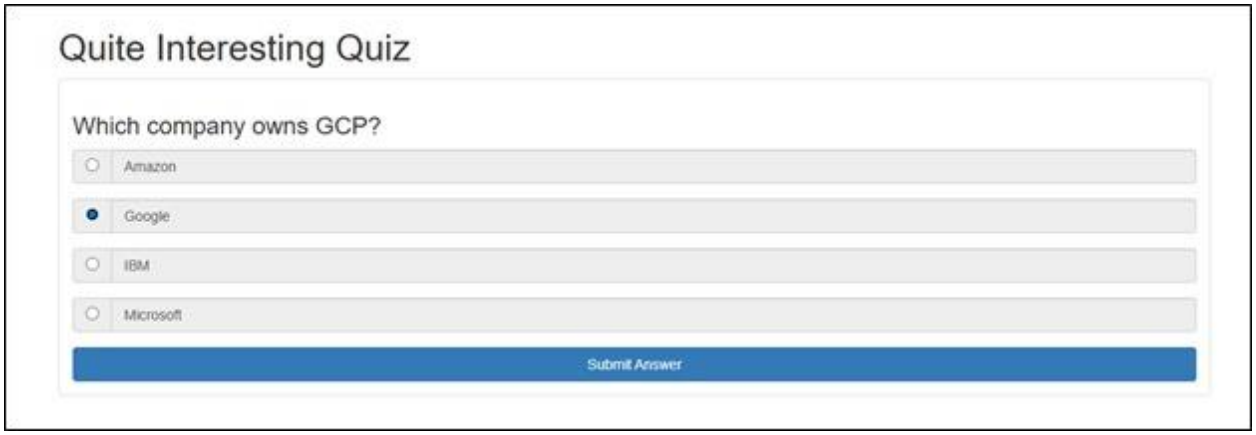


Task 5. Retrieve Cloud Datastore entities

Modifying the code to retrieve Cloud Datastore entities;



Taking the quiz:



Quiz result:

—End of Lab—