**ASSIGNMENT NO.02**

**1.** Use GAE launcher to launch the web applications

**What is google app engine?**

Google App Engine is a platform by Google Cloud that simplifies web application development and hosting. It manages the infrastructure, automatically scales applications, supports various programming languages like Python and Java, integrates with Google Cloud services, and offers development tools for streamlined deployment. With built-in security features and compliance certifications, it ensures application security and regulatory compliance. Additionally, it provides both standard and flexible environments, catering to different application requirements and allowing developers to focus on coding while Google handles the backend complexities.

STEPS TO FOLLOW :

1. Go to Google.

2. Search for "Google Cloud ."

3.Go to console.

4. Choose "Create New Project" from the dropdown menu.

5. Give your project a name.

6. Activate Billing account or add Billing.

7. Manage Billing account er dropdown select Biling -> create account.

-> Default ->Continue ->Do credit card.

8. Do not forget to disable Billing account for selected Project.

9. Search APP engine ->select app engine ->select project or create

10.Activate Cloud shell ->in open terminal create folder by typing command mkdir assignment2-> cd assignment2

11.Open editor -> from the drop down menu -> file -> open folder -> select previously created folder assignment2 -> click ok.

12.create new files -> 1.main.py , 2. app.yaml , 3. requirement.txt

In main.py

from flask import Flask

app=Flask(\_name\_)

@app.route(‘/’)

def hello\_world():

return ‘my first google app engine app’

In the preceding code block, you first import the Flask object from the flask package. You then use it to create your Flask application instance with the name app. You pass the special variable \_\_name\_\_ that holds the name of the current Python module. It’s used to tell the instance where it’s located—you need this because Flask sets up some paths behind the scenes.

Once you create the app instance, you use it to handle incoming web requests and send responses to the user. @app.route is a [decorator](https://en.wikipedia.org/wiki/Python_syntax_and_semantics#Decorators) that turns a regular Python function into a Flask view function, which converts the function’s return value into an HTTP response to be displayed by an HTTP client, such as a web browser. You pass the value '/' to @app.route() to signify that this function will respond to web requests for the URL /, which is the main URL.

The hello() view function returns the string 'Hello, World!' as a response.

In app.yaml

runtime:python39

In requirement.txt

Flask>=2.0

Werkzeug>=2.2

13.open terminal -> gcloud app deploy -v v01 -> Y -> deploy app on cloud -> using URL given in shell

14. type gcloud app browse -> click on URL

OUTPUTS :

 <Images of actual implementation>

CONCLUSION :

Completing this assignment will give you hands-on experience with Google Cloud Platform, including Google App Engine. You'll learn to navigate cloud services, manage code repositories, and deploy applications, gaining valuable skills for software development and cloud computing roles.