Semester: V
Academic Year: 2023-24
Year :TE IT
Subject: Advanced Devops Lab (ADL)
Name of Instructor:Prof. Manjusha K.

EXPERIMENT NO. 13

Aim: To demonstrate working of GAE launcher to launch the web applications.

Theory:

Prerequisites:

Installed Google Cloud SDK: Ensure that you have the Google Cloud SDK installed on your machine. If not, follow the installation guide provided by Google Cloud.
Lab Steps:
1. Create a Google Cloud Project:
a. Open the Google Cloud Console.
b. Create a new project or select an existing one.

2. Enable App Engine API:
a. Navigate to the "APIs & Services" > "Dashboard" section.
b. Click on the "+ ENABLE APIS AND SERVICES" button.
c. Search for "App Engine Admin API" and enable it.

3. Install GAE Launcher:
a. Download and install the Google App Engine Launcher for your operating system.

4. Configure GAE Launcher:
a. Open GAE Launcher and sign in with your Google Cloud account.
b. Click on "Create a new application" and enter a unique application ID.

5. Develop a Simple Web Application:
a. Create a new directory for your web application.
b. Inside the directory, create an 'app.yaml' file with the following content:
yaml runtime: python39 handlers: - url: /.* script: main.app c. Create a 'main.py' file with a simple Python web application.

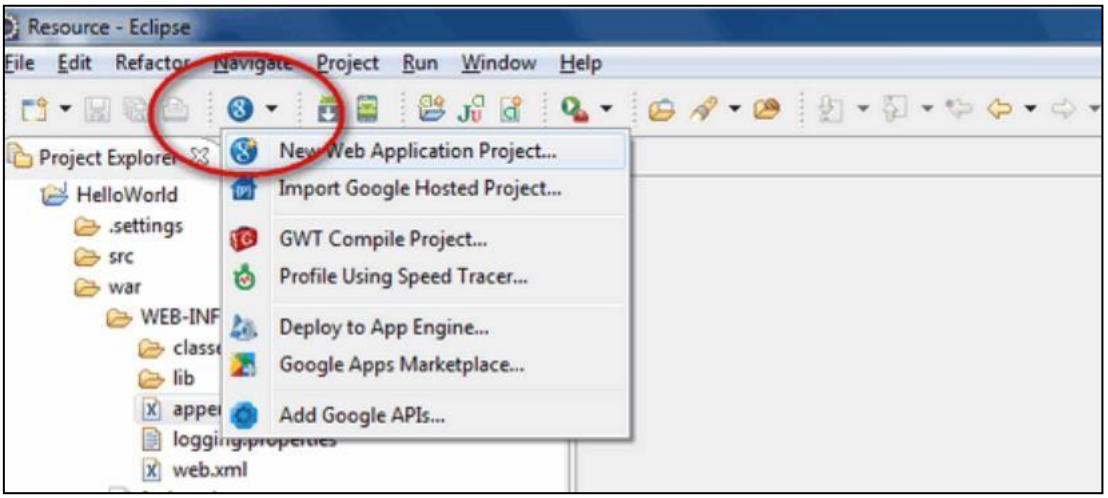
6. Run the Application Locally:
a. In GAE Launcher, click on the "Run" button next to your application.
b. Open a web browser and navigate to http://localhost:8080 to view your locally running application.

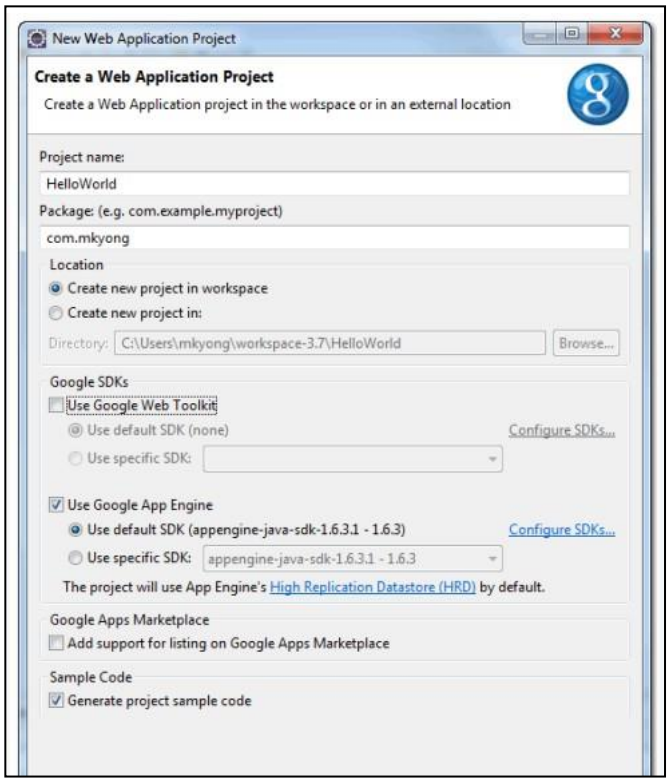
7. Deploy the Application to GAE:
a. Click on the "Deploy" button in GAE Launcher.
b. Follow the prompts to deploy your application to the Google Cloud Platform.

8. Access the Deployed Application:
a. Once deployed, open a web browser and navigate to https://[YOUR_PROJECT_ID].appspot.com.

How to install Plugins -

1. Install Google Plugin for Eclipse
2. Create New Web Application Project
   In Eclipse toolbar, click on the Google icon, and select "New Web Application Project…"

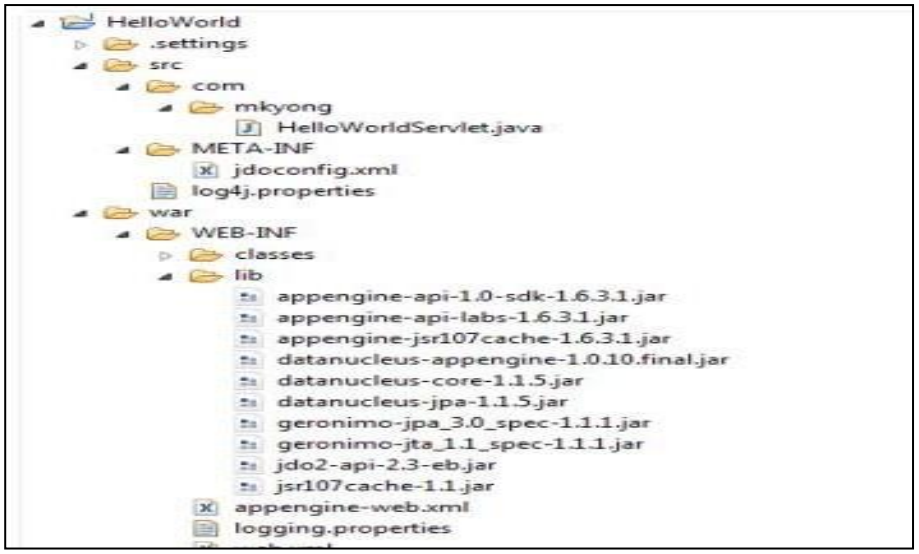




Click finished, Google Plugin for Eclipse will generate a sample project automatically.

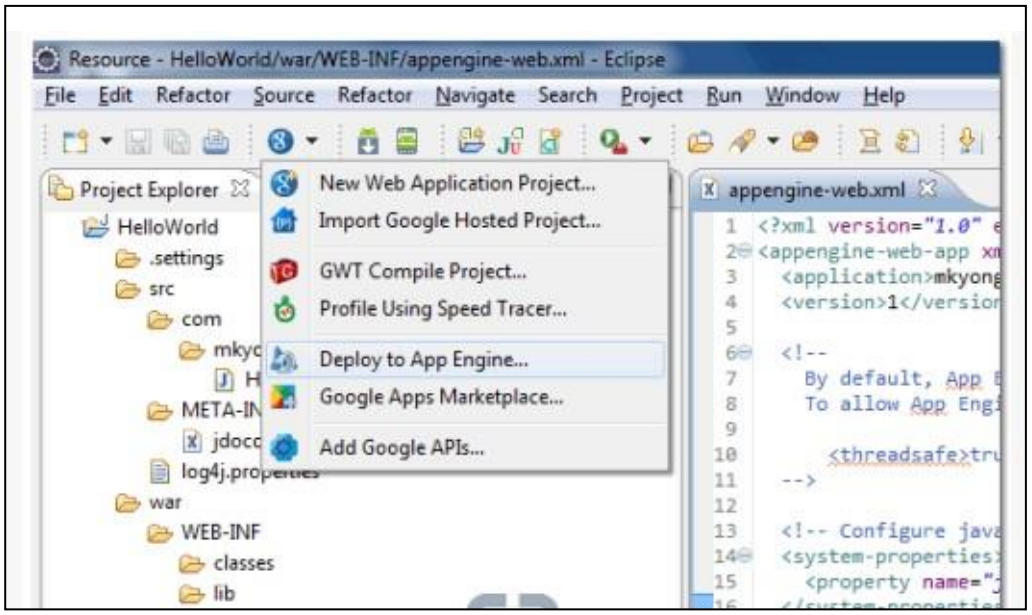
3. Hello World

Review the generated project directory



4. Run it local Right click on the project and run as "Web Application". Eclipse console : //... INFO: The server is running at http://localhost:8888/ 30 Mac 2012 11:13:01 PM com.google.appengine.tools.development.DevAppServerImpl start INFO: The admin console is running at http://localhost:8888/_ah/admin
Copy Access URL http://localhost:8888/, see output

5. Deploy to Google App Engine
Register an account on https://appengine.google.com/, and create an application ID for your web application.
In this demonstration, I created an application ID, named "mkyong123", and put it in appengineweb.xml.
File : appengine-web.xml



Sign in with your Google account and click on the Deploy button. If everything is fine, the hello world web application will be deployed to this URL – http://mkyong123.appspot.com/

Conclusion: Thus we have have learned how to use the Google App Engine Launcher to deploy a web application. This practical provides a foundation for deploying more complex applications on the Google App Engine platform.