EX NO.:

DATE:

Install Google App Engine. Create *hello world* app and other simple web applications using python/java.

Aim:

> **To Install** Google App Engine. Create *hello world* app and other simple web applications using python/java.

Procedure:

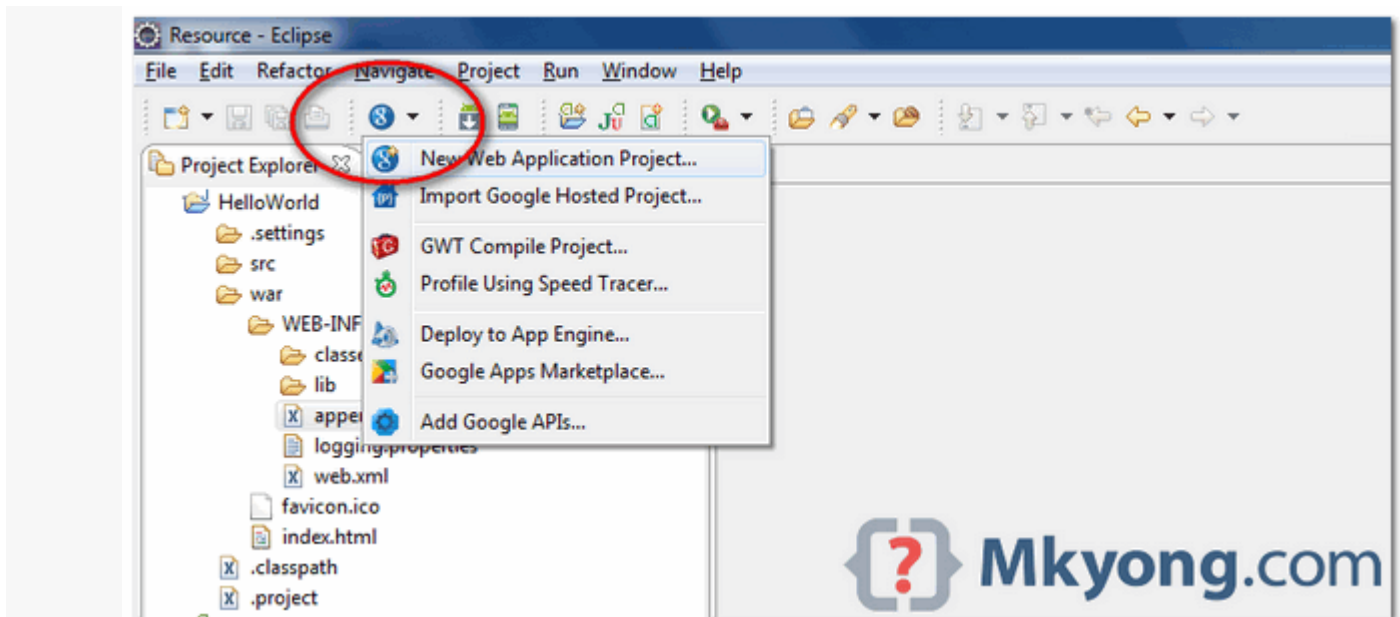*1. Install Google Plugin for Eclipse*

Read this guide – how to install Google Plugin for Eclipse. If you install the Google App Engine Java SDK together with "**Google Plugin for Eclipse**", then go to step 2, Otherwise, get the Google App Engine Java SDK and extract it.
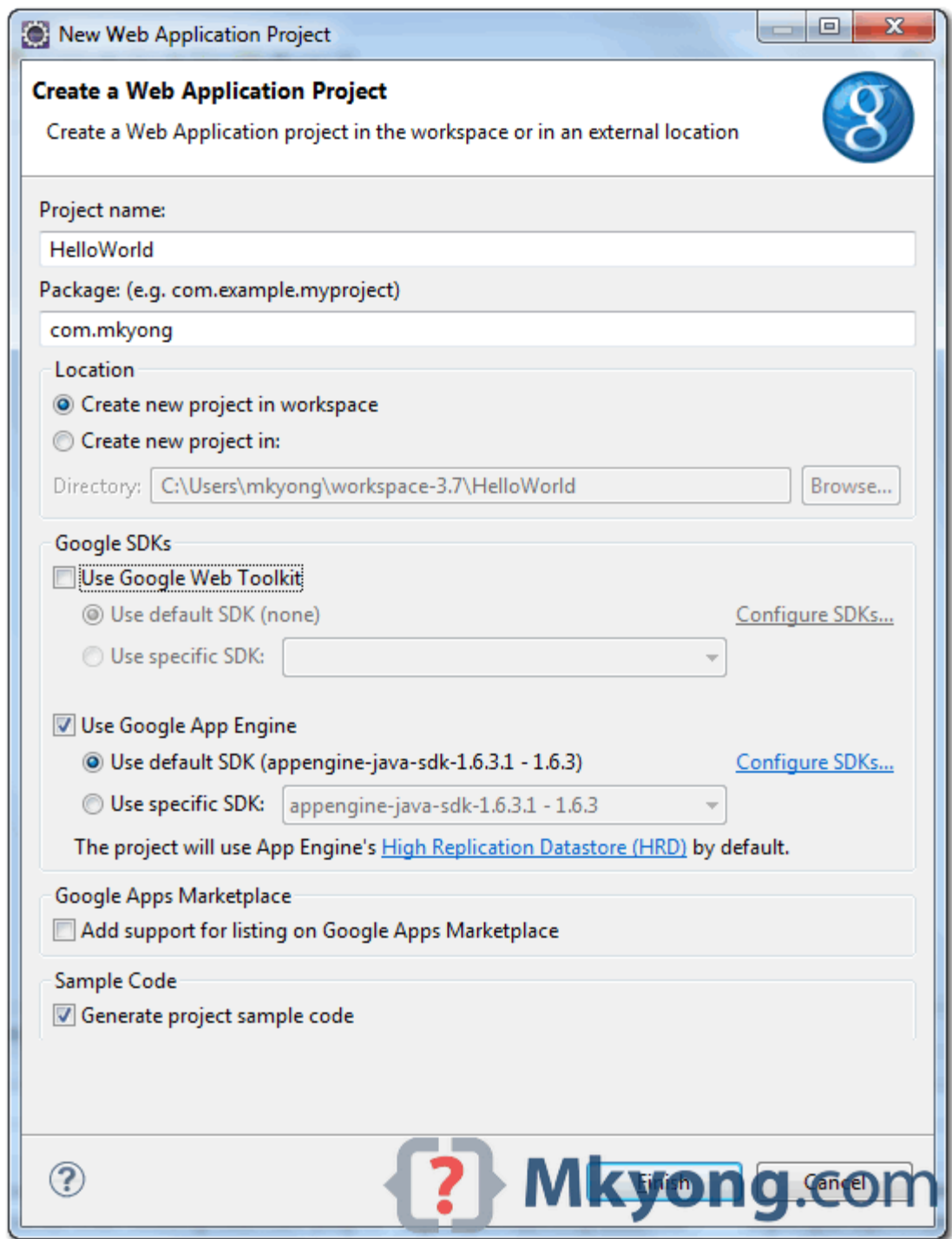
2. Create New Web Application Project

In Eclipse toolbar, click on the Google icon, and select "**New Web Application Project…**"
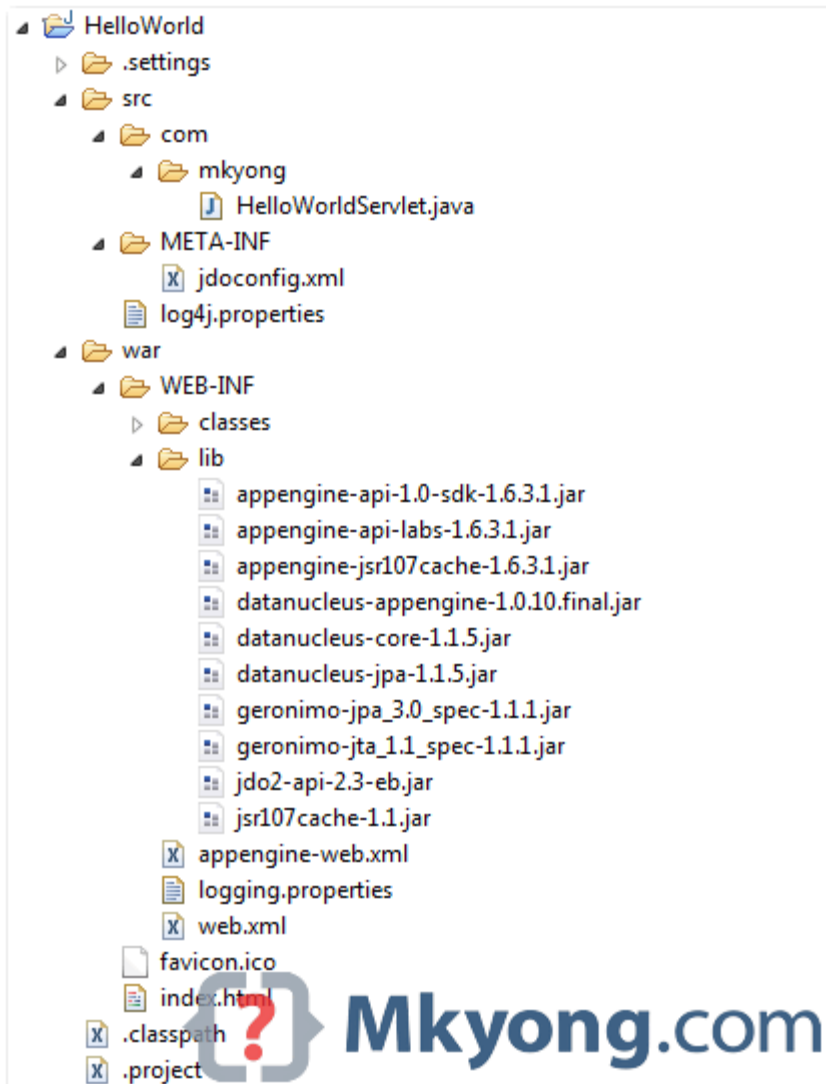
Figure – New Web Application Project

*Figure – Deselect the "**Google Web ToolKit**", and link your GAE Java SDK via the "**configure SDK**" link.*

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

3. Hello World

Review the generated project directory.

Nothing special, a standard Java web project structure.

```
HelloWorld/
  src/
    ...Java source code...
    META-INF/
      ...other configuration...
  war/
    ...JSPs, images, data files...
    WEB-INF/
      ...app configuration...
      lib/
        ...JARs for libraries...
      classes/
        ...compiled classes...
```

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The extra is this file "appengine-web.xml", Google App Engine need this to run and deploy the application.

File : appengine-web.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<appengine-web-app xmlns="http://appengine.google.com/ns/1.0">
  <application></application>
  <version>1</version>

  <!-- Configure java.util.logging -->
  <system-properties>
    <property name="java.util.logging.config.file" value="WEB-INF/logging.properties"/>
  </system-properties>

</appengine-web-app>
```
Copy

4. Run it local

Right click on the project and run as "**Web Application**".
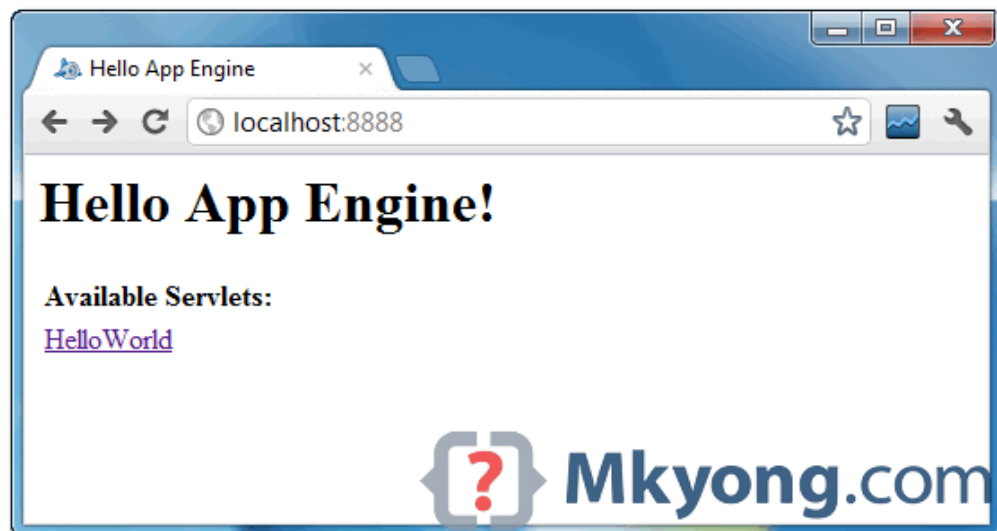
Eclipse console :

```
//...
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
```
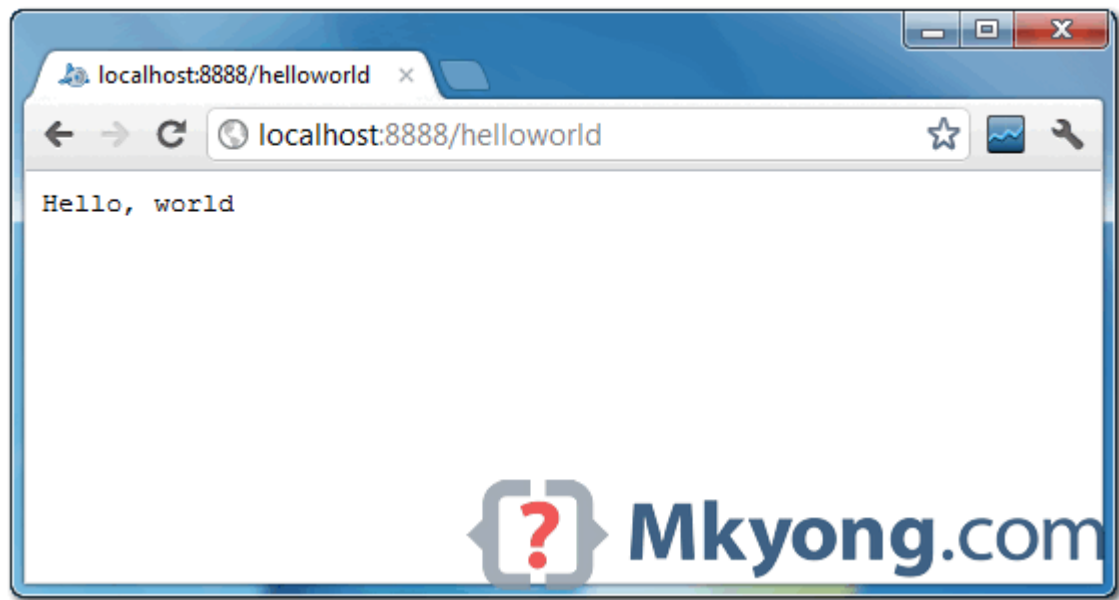Copy

Access URL http://localhost:8888/, see output

and also the hello world servlet – http://localhost:8888/helloworld

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 appengine-web.xml.

File : appengine-web.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<appengine-web-app xmlns="http://appengine.google.com/ns/1.0">
  <application>mkyong123</application>
  <version>1</version>

  <!-- Configure java.util.logging -->
  <system-properties>
    <property name="java.util.logging.config.file" value="WEB-INF/logging.properties"/>
  </system-properties>

</appengine-web-app>
```
Copy

To deploy, see following steps:
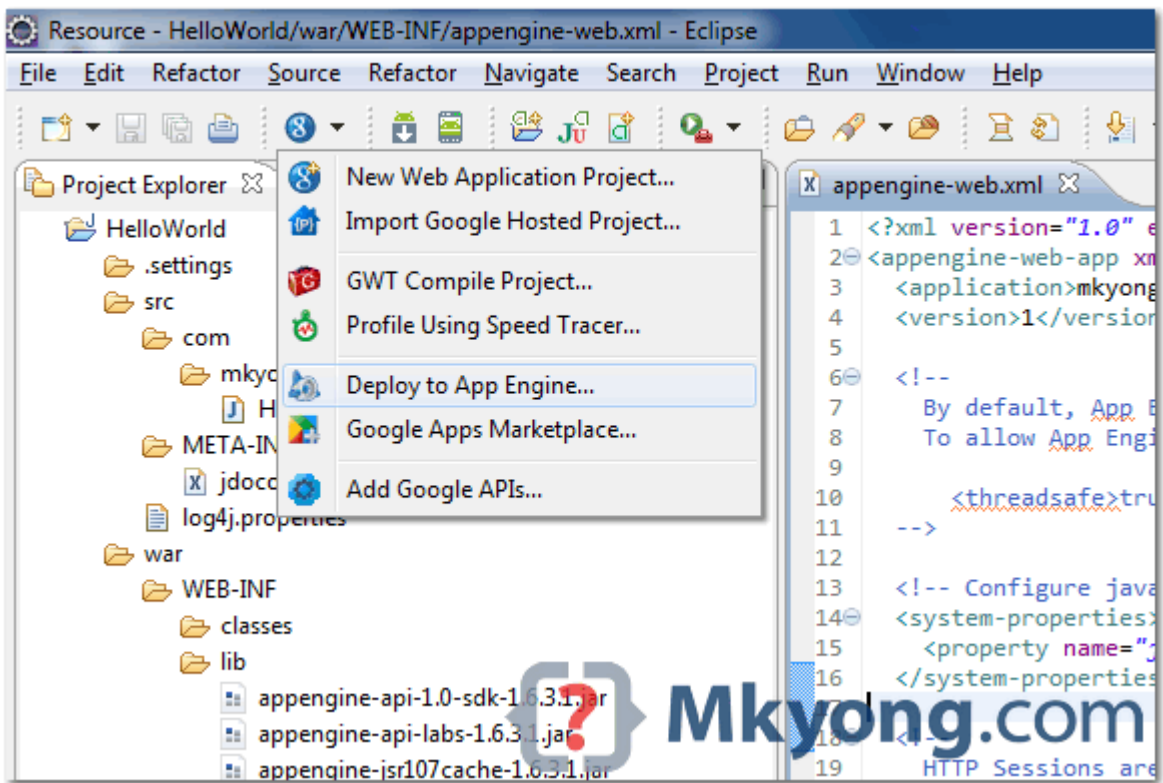
Figure 1.1 – Click on GAE deploy button on the toolbar.

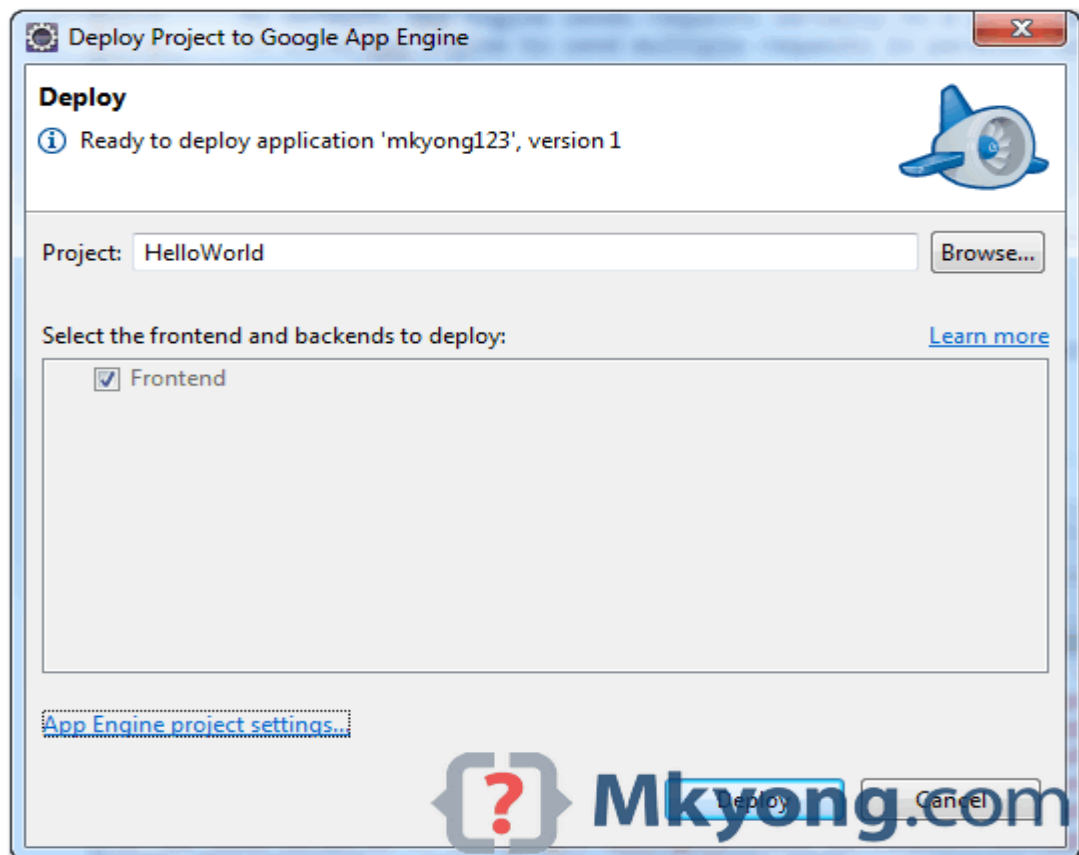*Figure 1.2 – Sign in with your Google account and click on the Deploy button.*

Figure 1.3 – If everything is fine, the hello world web application will be deployed to this URL –
 http://mkyong123.appspot.com/

Result:

      Thus the simple application was created successfully.