

Experiment 1.4

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Branch: CSE

Semester: 6th

Subj. Name: Cloud Computing

UID: 21BCS5712

Section/Group: NTPP-CC-601 A

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Subject Code: 21CSP-378

1. Aim:

Use of GAE launcher to launch the web applications.

2. Objective:

- a. To install GAE launcher and python.
- b. To use GAE launcher to run web application.

3. Software Required:

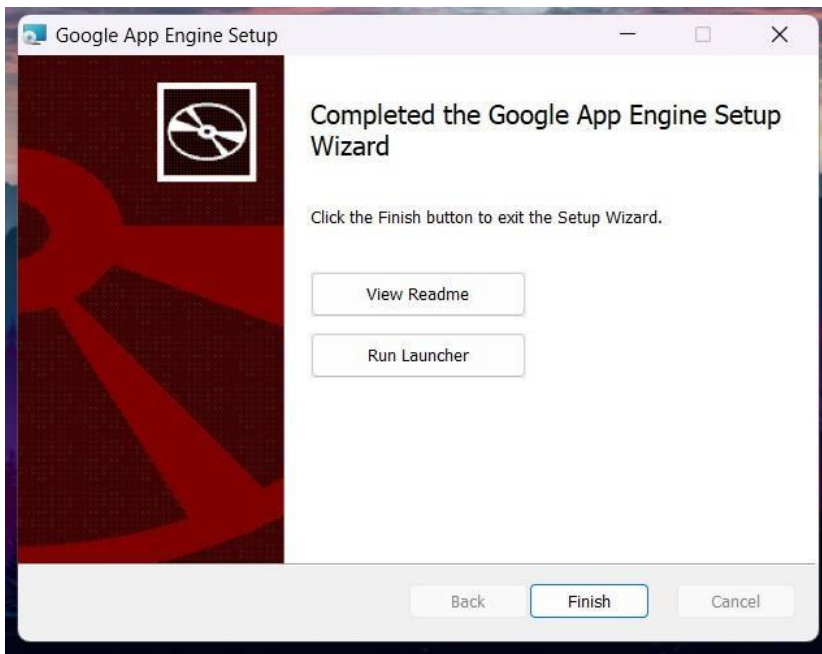
- a. Python 2.5
- b. Google app engine launcher

4. Description:

Python is a high-level, interpreted programming language known for its simplicity, readability, and versatility. Python has gained widespread popularity among developers for its ease of learning and use. Its syntax is designed to be straightforward and intuitive, making it accessible to beginners and experienced programmers alike. Python emphasizes readability and expressiveness, allowing developers to write clean and concise code that is easy to understand and maintain.

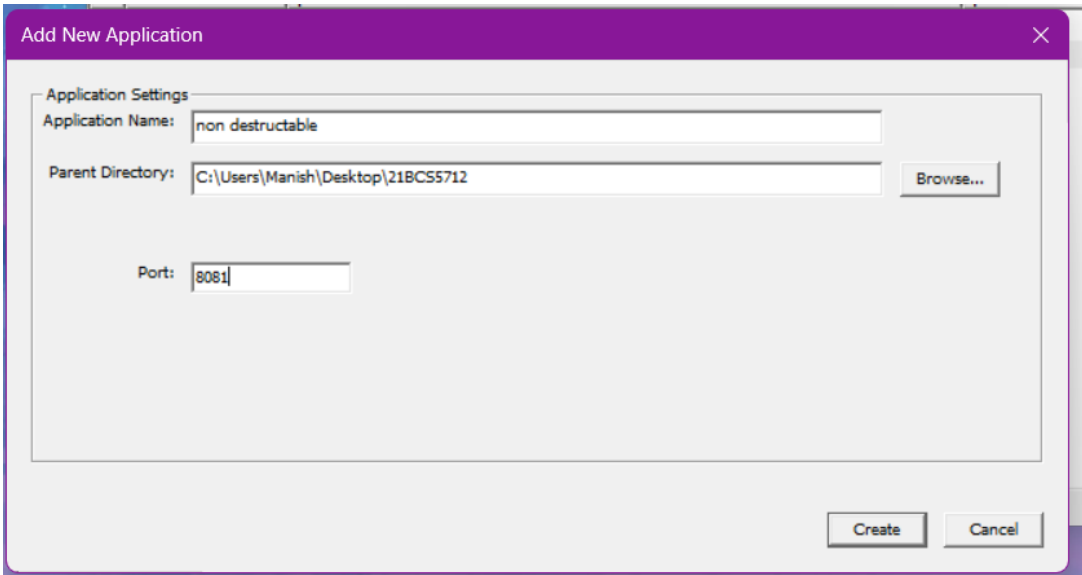
Google App Engine (GAE) Launcher, on the other hand, is a graphical interface tool provided by Google. It streamlines the development, testing, and deployment of web applications on Google App Engine, offering a local development environment, project management features, and seamless integration with Google Cloud Platform services. Together, Python and GAE Launcher provide developers with a powerful toolkit for building and managing cloud-based applications with ease.

Step 1: Install python and GAE launcher.



Step 2: Create a new folder on the desktop named 21BCS5712.

Step 3: Open the GAE launcher and go to file->create new application and add the location of the folder on the desktop and other details.



The image shows a Windows-style dialog box titled "Add New Application". It has a purple title bar with a close button (X) in the top right corner. The dialog contains a section titled "Application Settings" with three input fields: "Application Name" (containing "non destructable"), "Parent Directory" (containing "C:\Users\Manish\Desktop\21BCS5712"), and "Port" (containing "8081"). There is a "Browse..." button next to the "Parent Directory" field. At the bottom right of the dialog are "Create" and "Cancel" buttons.

Step 4: Now in the 21BCS5712 folder open the main.py file for code and you can change what to print here:

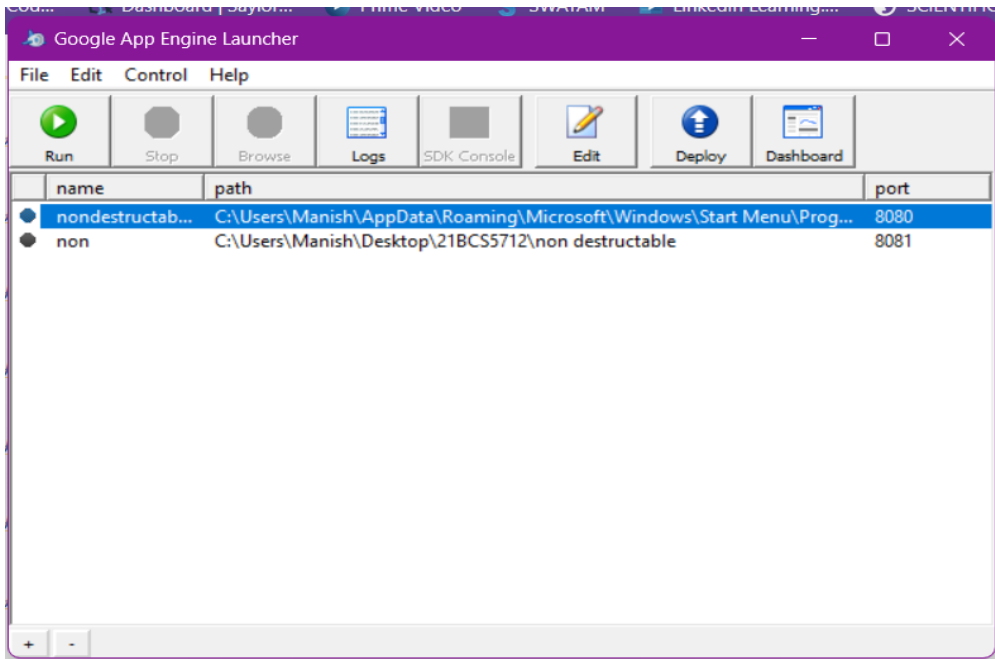
```
# See the License for the specific language governing permissions and
# limitations under the License.
#
from google.appengine.ext import webapp
from google.appengine.ext.webapp import util

class MainHandler(webapp.RequestHandler):
    def get(self):
        self.response.out.write('Manish Singh Barolia')

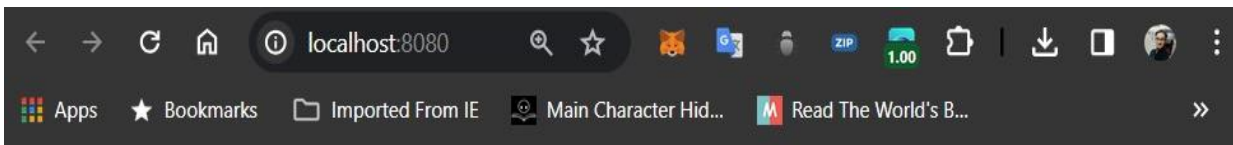
def main():
    application = webapp.WSGIApplication([('/', MainHandler)],
                                         debug=True)
    util.run_wsgi_app(application)

if __name__ == '__main__':
    main()
```

Step 5: Once this is done go to GAE and click on run



Step 6: Now go to google chrome and type localhost:8080 and it will launch it.



Manish Singh Barolia

5. RESULT: Successfully launched web application using GAE launcher.

6. Learning Outcomes:

- Learn how to use GAE launcher
- Understand how to launch web applications using GAE launcher and python.