## **Assignment 2**

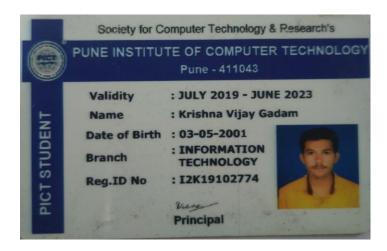
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<u> </u>	SSignment - 2 Roll No.: 33124
an natur die	may a manage of the second sec
Aims- Use GA	E launcher to launch the web applications.
	A The second of
Theory:	the fact of the same of the sa
0.1) Meating the	Steucture of GAE Applications with their Pile Structure
and description	
=> Dizectory 81	puctuze
	sion of your App Engine Service is defined in an
app. yaml	Gile.
-> the for	simple apps, the minimum sequirement for development
15 TO DEHI	ne the app. Yami file.  ni acts as a deployment dosseiptor and definer
The scaling	type and runtime, harder and other Eesource
Deltings to	r a specific version of sezuica.
> If severo	I versions of a service are to be deployed
multiple	Yami files can be executed in the same directory
to septison	+ the configuration for each of the versions.
	1 12-11-121
	lin_code_app1
	app. yami
Cource A)	
16 Indy	Directory Diagram
→ Ma lincode	app consists of a single lincode cipp source and hence
only one o	pryumi is used as an deployment deseriptor
In case i	som multiple services other files can be
included t	

	The state of the s
	(as) What are the main components of useb application?
	were lover. It glues an Interface to the application It is
	a bridge for getting the data in any out of the application
	Il does not contain business logic.
	Control of the second of the s
	Buliness layer: It accepts users togyests from the browsez
	process then and determine the reaster through which the
	data will be accessed
	and the second
156	Data Acuss lagez: A Keps the code that Is used to pull data from
	data shore like dutabase, flat filosoz web services seperate
1147	from bussiness logic and presentation code thus avoiding
100	Scrotifing.
	The state of the s
	Error hundling, socurity, logging:
	when a web application is built end your shuilding, and lesting
	are only locused on for lituations when things go right.
	website application architecture:
	MISSILE OFFICENCY OF CALCULAR STATEMENT OF THE PROPERTY OF THE
	Ceverles Aschilictuse:
	DOBN'T need to manage Introstructures. All the service many
	Wen't head to manage threated the like Awa
	is done by third party service provide like Aws.
mul.	Single page Applications:
	It Interfered with the user by ofnomically Equility the
	current page rather than loading entire new pages from a
	302019.

Microsevices:
- Responsible for executly a Stryle Renctionality
Allungs discharge with it to not only enhance
productivity but also speed up the entire deployment process.
(03) What is the procedure to develop a simple web application?
= O petine the problem
@ flow the court flow of your coels application.
3 Wizeltome your Cuchappication & Ecceive validation.
@ Choose the tech stack to be used in your app & start
building your application bused on design.
10 test application after regular interval of time.
@ Host & deploy your web application.
Conclusion :
In this assignment, I learnt about launching web
applications using GAE launchez
0

## Code:

```
D O
                                                                                                                                        index.html X
          import json
         import urllib
import webapp2
                                                                                                                                                             <title class="alignet">Post Office Finder</tit
          from google.appengine.ext.webapp import template
                                                                                                                                                                    href="https://fonts.googleapis.com/css2?fa
         class MainPage(webapp2.RequestHandler):
    def get(self):
                      template_values = {}
                      path = os.path.join(os.path.dirname(_file__), 'index.html
self.response.out.write(template.render(path, template_val)
                                                                                                                                                                    <h2 class="weatherText">Post Office Finder
                 def post(self):
                      pincode = self.request.get('zipCode')
url = "https://api.postalpincode.in/pincode/"+ pincode
                                                                                                                                                                    <form class="weatherText" id="weatherForm"</pre>
                                                                                                                                                                          Location Zip Code:
                       data = urllib.urlopen(url).read()
                      data = unllib.urlopen(unl).read()
data = json.loads(data)
post_office = data[0]['PostOffice'][0]['State']
name = data[0]['PostOffice'][0]['Name']
block = data[0]['PostOffice'][0]['block']
district = data[0]['PostOffice'][0]['District']
branchType= data[0]['PostOffice'][0]['BranchType']
division= data[0]['PostOffice'][0]['Division']
country= data[0]['PostOffice'][0]['Country']
temmolate values = {
                                                                                                                                                                               class="weatherText"
                                                                                                                                                                                name="zipCode"
                                                                                                                                                                                id="weatherSubmit"
                                                                                                                                                                                type="submit"
                      template_values = {
   "post_office": post_office,
                              "name": name,
"block": block,
                              "district": district,
                                                                                                                                                                      n 1, Col 1 Spaces: 4 UTF-8 CRLF
                                                                                                                                                                                                             へ ENG ( Ф) ■ 04:23 PM ( 01-02-2022
```

```
Google Cloud SDK Shell - py google-cloud-sdk\bin\dev_appserver.py "C\Users\KRISHNA\Desktop\CCL\Assignment 2" - \

Welcome to the Google Cloud SDK1 Run "gcloud -h" to get the list of available commands.
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C:\Program Files (x86)\Google\Cloud SDK>py google-cloud-sdk\bin\dev_appserver.py "C:\Users\KRISHNA\Desktop\CCL\Assignmen t 2"

INFO 2022-02-01 16:25:51,019 devappserver2.py:316] Skipping SDK update check.
INFO 2022-02-01 16:25:53,701 dispatcher.py:281] Starting API server at: http://localhost:57265
INFO 2022-02-01 16:25:53,701 dispatcher.py:281] Starting module "default" running at: http://localhost:8080
INFO 2022-02-01 16:25:53,714 admin_server.py:150] Starting admin server at: http://localhost:8000
INFO 2022-02-01 16:25:57,305 instance.py:294] Instance PID: 16840
```

## **Output:**

