Cloud Computing Laboratory Assignment No. 2

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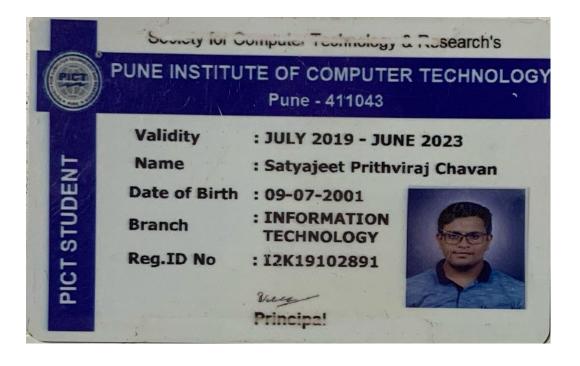
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	Cloud Computing Assignment No. 2 DATE / /
Carte	The same of the sa
*	Aim: Use GAE launcher to launch the web application
- railar	Despera Comments III was been and
4	Theory: many modernt a long regions
a	Marken the sale of
•	Mention the structure of GAE applications with
	the structure and ascription
	1) Each verseon of your app Emine service is defined
2000	(2) For elmoly yame free
	1 for similar apps, the minimum requirement for
111	deployment is to define the appyant free.
	3). If you are deploying several verseons of a service,
	directory to represent configuration for each versions
	1 For each service, you can creat separate directories
d All	in the root of your app when you are developing
w 7.	locally. In the state of the st
	6) Each directory or repository should represent a single
0	service & contain that services app yand file
100	along with the associated source code.
stantel	6) The other optical configuration files should raide
	in the sest root, directory or repositions of the
	default service of your app.
qual	(a) In this asstanment our project directory
oto oto	includes app. yand, index bitml, main. py, results. Hire
	the database
de la	to not is it propose of serve god but soci (vi)
Sent 1	in the completion of war executed the co
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du s	and a standard of the procedure to develop a single of the standard of the sta
	el Plan the workford of your whopplication
	Sover Side was it is
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D at Here	Designation of the party of the
Broc	tayer Layer
	HTM1
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	3 Dala Arren Lane

PAGE NO.: 2 PAGE NO. All web-bosed database applications have three primary components: A web browser, a web application scryer and a database scriver. 1) Heb-based applications rely on database server, which provides the data for the application. @ The database sametimes provide with business logic in the form of stored procedure. 3) The clients handle the presentation logic, which controls the way in which were interact with the application. @ In some cases, the client validates user provided at toputs. I amou dottly doors In terms of layers, they can be categorized as: (1) View Layer: It gives the interface to application & is the bridge of getting the data in and out of the application: (ii) Bushess layer: It is known as Bushess lagic or Application layer. The function is to accept user requests from the browser, process then & determine the router through which the data ment will be -accessed. and (iii) Dala Access Loges: This larger is built to keep the rode you use to pull data from your data ston (ir) Faror Handling, Security, Lagging: It is the vital in any application & wex experience. It can your wers fed informed and properly considered.

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9	What is the procedure to develop a simple web
-5)	2) Plan the workflow of your uxb-application 3) Hirefrance your uxb application. 4) Receive validation 5) Choose the tech-stack to be used in the app. 6) Start building the application based on design. 7) Test the application after regular intervals of thre 8) Host 8 deploy your web application.

OUTPUT:

a) Index.html:

```
<html>
    <style>
        .weatherText {
            font-family: "Lato", "sans-serif";
            font-size: 24px;
            text-align: center;
        #weatherForm {
            padding: 20px;
        #weatherSubmit {
            color: white;
            background-color: #083375;
            padding: 5px 20px;
            border-radius: 5px;
            margin-top: 20px;
        #weatherSubmit:hover {
            cursor: pointer;
        body {
            display: flex;
            justify-content: center;
            align-items: center;
        .card {
            border: 2px solid black;
            width: 50%;
            justify-content: center;
            align-items: center;
    </style>
        <title class="alignct">Post Office Finder</title>
        link
            href="https://fonts.googleapis.com/css2?family=Lato:wght@400;700&d
isplay=swap"
            rel="stylesheet"
```

```
</head>
    <body>
        <div class="card">
             <h2 class="weatherText">Post Office Finder Using WebApp</h2>
             <form class="weatherText" id="weatherForm" action="/"</pre>
method="post">
                 Location Zip Code:
                 <input</pre>
                     class="weatherText"
                     id="weatherInput"
                     type="text"
                     name="zipCode"
                 <input</pre>
                     class="weatherText"
                     id="weatherSubmit"
                     type="submit"
                     value="Submit"
             </form>
        </div>
    </body>
</html>
```

b) Results.html:

```
<!DOCTYPE html>
<html lang="en">
    <style>
        body {
            display: flex;
            justify-content: center;
            align-item: center;
        #weatherResults {
            background-color: #83e9c2;
            font-family: "Lato", sans-serif;
            font-size: 24px;
            padding: 30px;
            display: inline-block;
            text-align: center;
            margin: 20px;
            margin-top: 10%;
            border: 2px solid black;
```

```
border-radius: 5px;
   </style>
      <meta charset="UTF-8" />
      <title>Post Office Information</title>
          href="https://fonts.googleapis.com/css2?family=Lato:wght@400;700&d
isplay=swap"
          rel="stylesheet"
   </head>
   <body>
      <div id="weatherResults">
          <h3>State of Post Office :</h3>
                <h3>{{ post_office }}</h3>
                 <h3>Name of Post Office :</h3>
                <h3>{{ name }}</h3>
                <h3>Block of Post Office:</h3>
                <h3>{{ block }}</h3>
                <h3>District of Post Office:</h3>
                <h3>{{ district }}</h3>
```

```
</div>
</body>
</html>
```

c) app.yaml:

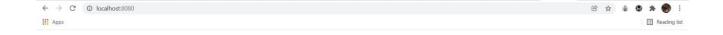
d) main.py:

```
import webapp2
from google.appengine.ext.webapp import template
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_values))
    def post(self):
         pincode Follow link (ctrl + click) zipCode')
         url = "https://api.postalpincode.in/pincode/"+ pincode
         data = urllib.urlopen(url).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']
         template_values = {
    "post_office": post_office,
             "name": name,
             "block": block,
         path = os.path.join(os.path.dirname(__file__), 'results.html')
         self.response.out.write(template.render(path, template_values))
app = webapp2.WSGIApplication([('/', MainPage)], debug=True)
```

C:\Windows\System32\cmd.exe - dev_appserver.py C:\Users\Satysjeet\Desktop\Assn2

```
Microsoft Windows [Version 10.0.19042.1466]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Satysjeet\AppData\Local\Google\Cloud SDK\google-cloud-sdk\bin>dev_appserver.py C:\Users\Satysjeet\Desktop\Assn2
INFO 2022-01-31 22:59:47,026 devappserver2.py:316] Skipping SDK update check.
INFO 2022-01-31 22:59:47,944 <string>:383] Starting API server at: http://localhost:57325
INFO 2022-01-31 22:59:48,098 dispatcher.py:281] Starting module "default" running at: http://localhost:8080
INFO 2022-01-31 22:59:48,101 admin_server.py:150] Starting admin server at: http://localhost:8000
INFO 2022-01-31 22:59:51,171 instance.py:294] Instance PID: 4884
```



Post Office Finder Using WebApp

Location Zip Code:

Submit

Reading list

State of Post Office: Maharashtra

Name of Post Office: Ankali

Apps

Block of Post Office: Miraj

District of Post Office: Sangli

Conclusion:

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*	Canclusson.	
120	Successfully used GAF launcher in order to a useb application.	launch
	Wer application.	