# LAB 2

**2. Use GAE launcher to launch the web applications**

CODE:

main.py

import webapp2

import os

import urllib

import json

from google.appengine.ext.webapp import template

class MainPage(webapp2.RequestHandler):

def get(self):

path = os.path.join(os.path.dirname(\_\_file\_\_),'index.html')

context = {}

self.response.out.write(template.render(path, context))

def post(self):

pincode = self.request.get("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,

"district":district

}

path = os.path.join(os.path.dirname(\_\_file\_\_),'result.html')

self.response.out.write(template.render(path,template\_values))

app = webapp2.WSGIApplication([('/',MainPage)],debug=True)

app.yml

runtime: python27

api\_version: 1

threadsafe: true

handlers:

- url: /

script: main.app

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>

<head>

<title class="alignct">Post Office Finder</title>

<link

href="https://fonts.googleapis.com/css2?family=Lato:wght@400;700&display=swap"

rel="stylesheet"

/>

</head>

<body>

<div class="card">

<h2 class="weatherText">Post Office Finder Using WebApp</h2>

<!-- <h1 id="error\_head" style="display: none" value="{{error}}">{{error}}</h1> -->

<form class="weatherText" id="weatherForm" action="/" method="post">

Location Zip Code:

<input

class="weatherText"

id="weatherInput"

type="text"

name="zipCode"

/><br />

<input

class="weatherText"

id="weatherSubmit"

type="submit"

value="Submit"

/>

<button

id="weatherSubmit"

class="weatherText"

onclick="document.getElementById(

'weatherInput').value = ''"

>

Clear

</button>

</form>

</div>

</body>

</html>

result.html

<!DOCTYPE html>

<html lang="en">

<style>

body {

display: flex;

justify-content: center;

align-items: 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>

<head>

<meta charset="UTF-8" />

<title>Post Office Information</title>

<link

href="https://fonts.googleapis.com/css2?family=Lato:wght@400;700&display=swap"

rel="stylesheet"

/>

</head>

<body>

<div id="weatherResults">

<table>

<tr>

<th>

<h3>State of Post Office :</h3>

</th>

<th>

<h3>{{ post\_office }}</h3>

</th>

</tr>

<tr>

<th>

<h3>Name of Post Office :</h3>

</th>

<th>

<h3>{{ name }}</h3>

</th>

</tr>

<tr>

<th>

<h3>Block of Post Office:</h3>

</th>

<th>

<h3>{{ block }}</h3>

</th>

</tr>

<tr>

<th>

<h3>District of Post Office:</h3>

</th>

<th>

<h3>{{ district }}</h3>

</th>

</tr>

</table>

<a href="http://localhost:8080/"><h4>Back to the Home page</h4></a>

</div>

</body>

</html>

OUTPUT:











