CREATING A FLASK:

Assignment Date	11 October 2022
Team ID	PNT2022TMID25308
Maximum Marks	2 Marks

AIM :

To create a flask and add the home page about page and add the signup and singin button in the web page using flask.

Requirements:

☐ Install python

☐ Install pip & Flask

Source code :

Python code:

app.py from flask import Flask, redirect, url_for

,render_template app = Flask(_name_)

@app.route("/")

def index():

return render_template("index.html")

@app.route("/home") def

home():

return render_template("home.html")

@app.route("/about")

def about():

return render_template("about.html")

@app.route("/signin")

def signin():

return render_template("signin.html")

@app.route("/singup")

def signup():

return render_template("singup.html")

HTML:

Index.html

```html
<html>
<head>
<title>INDEX</title>
<style> Body { font-
family:          serif;
background-color: pink;
}
</style>
</head>
<body>
<p><font size="+3"> Welcome to the WEB PAGE</font></p>
<a href="/home">HOME</a>
<br>
<br>
<a href="/about">ABOUT</a>
<br><br><button type="button" name="singup"> <a href="/singup"> SING
UP</a></button>
<br><br><button type="button" name="singin"> <a href="/signin">SIGN IN</a></button>
</body>
<html>
```

Home.html

```html
<html>
<head>
<title>HOME PAGE</title>
<body>
<P> HI, THIS IS PADMINI S</P>
<P>I have created the basic flask environment</P>
```

```
<a href="about.html">ABOUT</a>

</body>

</head>

</html>
```

About.html

```
<HTML>

<HEAD>

<TITLE>ABOUT</TITLE>

</HEAD>

<BODY>

  <font size="+4"><B>Explain what is Flask and discuss its benefits?</B></font>

<br>

<font size="+3"><b>What is Flask?</b></font>

<br>
```

Flask is a web framework, it's a Python module that lets you develop web applications easily. It's has a small and easy-to-extend core:

it's a microframework that doesn't include an ORM (Object Relational Manager) or such features.

It does have many cool features like url routing, template engine. It is a WSGI web app framework.

`<br>`

There are some pros and cons. Pros mean there are little

dependencies to upgrade and to watch security bugs and cons means by adding the plugin you will

increase the dependencies. Flask has two dependencies, they areWerkzeug a WSGI utility library

Jinja2 is a template engine

Flask for Python based on Werkzeug, jinja2, and good intention.`<br>`

`<font size="+2"><u><b>werkzeug</b></u></font>`

`<br>`

Werkzeug is a utility library used for Python programming language. And also it is a toolkit of WSGI

(web server gateway interface). It has licensed under the BSD License. Werkzeug can registered

software for the request, response and utility function. It can also build a

software framework that can support Python 2.6, 2.7, and 3.3.

<u>Jinja2</u>

It is a template engine for the Python programming language and is licensed under BSD license.

Using the template you can build the basic layout of your page and can mention which will be

changed. In this way, you can change your header of the page by upgrading it in one place only.

<u>The benefit of the flask</u>

There are impressive features to use the flask in your web application framework. LikeIntegrated support for unit testing

Built-in development server and fast debugger

Restful request dispatching

Unicode base

Support for cookies

Templating jinja2

WSGI 1.0 compliant

Plus flask gives you some premier control to develop your project.

HTTP request handling function

Flask has a modular design and lightweight so that it can easy to transit into web

framework with some extension

You can plug your favourite ORM

Basic fundamental API is nicely shaped and coherent

Highly flexible

It is easy to deploy the flask in production

<u>Conclusion:</u>

Flask is the most policed and feature-rich micro framework. Flask comes with all its benefit of the

fast template, strong WSGI features, and extensive documentation. Flask gives lots of

good features, vast no of extension facility for a new project.

</BODY>

</HTML>

Sign_up.html

```html
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<title> signup </title>
<style>
Body {  font-family:  serif;
 font-size:              14px;
 background-color: purple;
}
button { background-
 color: blue; width: 20%;
 color: orange; padding:
 15px; margin: 10px
 0px; border: none;
cursor: pointer;
}
form { border: 3px solid
 pink;  font-family:  arial
 black;
}
input[type=text], input[type=email],input[type=password] {
width:  20%;  margin:
8px 0; padding: 12px
20px;
```
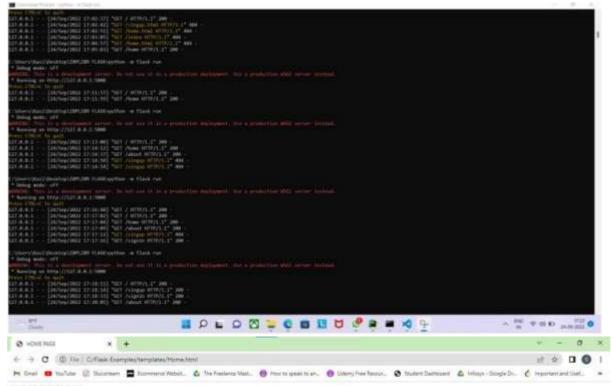
```
        display:      inline-block;
        border:  2px  sky  blue;
        box-sizing: border-box;
    }
    button:hover { opacity:
     0.7;
    }
    .cancelbtn   {   width:
    auto;  padding:  10px
    18px;   margin:  10px
    5px;
    }


    .container { padding: 25px;
     background-color: orange;
    }
</style>
</head>
<body>
<center> <h1> Signup for FLASK </h1> </center>
<form>
<div class="container">
<label>First name : </label><br>
<input type="text" placeholder="Enter firstname" name="fname" required>
<br>
<label>Last name : </label><br>
<input type="text" placeholder="Enter lastname" name="lname" required>
<br>
<label>E-mail : </label><br>
```

```html
<input type="email" placeholder="Enter email" name="email" required>
<br>
<label>Password : </label><br>
<input type="password" placeholder="Enter Password" name="password" required> <br>
<label>Confirm Password : </label><br>
 <input type="password" placeholder="Enter confirm Password" name="confirm password"
required>
<br>
<button type="submit">SIGN UP</button>
<input type="checkbox" checked="checked"> Remember me
<br>
<button type="button" class="cancelbtn"> Cancel</button>
</div>
</form>
</body>
</html>
```

Sign_in.html

```html
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<title> Login Page </title>
<style>
Body { font-family:
 optima; background-
 color: purple; font-size:
 16px;
}
button { background-
 color:blue; width:
 100%; color: white;
```

```css
  padding: 15px; margin:

  10px 0px; border:

  none; cursor: pointer;

}

form { border: 3px solid

  pink; font-family: Arial

  black;

}

input[type=text], input[type=password] {

width: 20%; margin:

8px 0; padding: 12px

20px; display: inline-

block; border: 2px

sky blue; box-sizing:

border-box;

}

button:hover {

  opacity:   0.7;

  width: 20%;

}

.cancelbtn { width:

auto; padding: 10px

18px; margin: 10px

5px;

}


.container { padding: 25px;

  background-color: orange;

}
```

```html
</style>

</head>

<body>

<center> <h1> SIGN IN TO FLASK </h1> </center>

<form>

<div class="container">

<label>Username : </label>

<input type="text" placeholder="Enter Username" name="username" required>

<br>

<br>

<label>Password : </label>

<input type="password" placeholder="Enter Password" name="password" required>

<br>

<br>

<button type="submit">Login</button>

<br>

<br>

<input type="checkbox" checked="checked"> Remember me

<button type="button" class="cancelbtn"> Cancel</button>

Forgot <a href="#"> password? </a>

</div>

</form>

</body>

</html>
```

Output:

HI, THIS IS PADMINI S

I have created the basic flask environment

ABOUT