CREATING A FLASK:

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

Home.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.

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 are Werkzeug a WSGI utility library

Jinja2 is a template engine

Flask for Python based on Werkzeug, jinja2, and good intention.

<u>werkzeug</u>

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>

<hr>

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<br>
<font size="+2"><u><b>Conclusion:</u></b></font>
<br>
Flask is the most policed and feature-rich micro framework. Flask comes with all its benefit
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>
<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>
<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>
<hr>
<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>
```

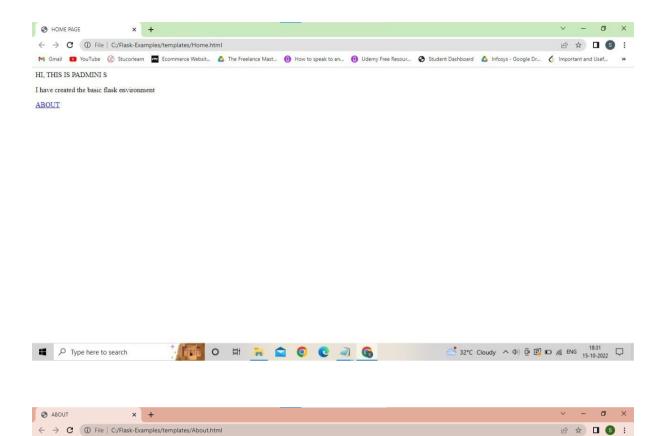
Sign_in.html

```
<html>
<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;
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;
}
</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>
```

Output:

```
The Second Control of Control of
```



Explain what is Flask and discuss its benefits?

What is Flask?

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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

Conclusion:
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.



