Assignment -2

Python-flask Programming

Assignment Date	19 September 2022
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Student Roll Number	960519104015
Maximum Marks	2 Marks

Question-1:

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1. Create a Flask App
2. Add the Home page, About Page
3. Add the Bootstrap

4.Add the Sign in page and App the Signup Page+ database connectivity

app.py:

```
from site import USER_BASE
from flask import Flask, render_template, url_for, request, redirect
import sqlite3 as sql



app=Flask(__name__)
app.secret_key="shreesathyam"


@app.route("/")
def home():
  con =sql.connect("user_base.db")
  con.row_factory=sql.Row
  cur=con.cursor()
  cur.execute("select *from user")

  users= cur.fetchall()
  con.close()
  returnrender_template("index.html",users=users)

@app.route("/about")
def about():
  returnrender_template("about.html")
```

```
@app.route("/signin")
def signin():
  return render_template("signin.html")
@app.route("/signup")
def singup():
  return render_template("signup.html")
@app.route("/user/<id>")
def user_page(id):
  with sql.connect("user_base.db") as con:
    con.row_factory=sql.Row
    cur =con.cursor()
    cur.execute(f"SELECT * FROM user WHERE email="{id}"")
    user = cur.fetchall()
  return render_template("user_info.html",user=user[0])

@app.route("/accessbackend",methods=["POST","GET"])
def accessbackend():
  if request.method == "POST":
    try:
      firstname=request.form["firstname"]
      lastname=request.form["lastname"]
      e_mail= request.form["email"]
      phone=request.form["phone"]
      password=request.form["password"]
      dob=request.form["dob"]

      with sql.connect("user_base.db") as con:
        cur=con.cursor()
        cur.execute("INSERT INTO user (firstname, lastname, email, phone, password, dob) VALUES(?,?,?,?,?
,?)", (str(firstname),str(lastname),str(e_mail),str(phone),str(password),str(dob)))
        con.commit()
        msg="ur resgistered!"

    except:
      con.rollback()
      msg="some error"

    finally:
      print(msg)
      return redirect(url_for("home"))
  else:
    try:
      tue=request.args.get("email")
      tup=request.args.get("password")
      print(tue,tup)
      with sql.connect("user_base.db") as con:
        con.row_factory=sql.Row
        cur=con.cursor()
```

```
        cur.execute(f"SELECT password FROM user WHERE email='{tue}'")
        user= cur.fetchall()
    except:
        print("error")
        con.rollback()
    finally:
        if len(user) >0:
            if tup == user[0][0]:
                return redirect(url_for("user_page",id=tue))
            print(user[0][0])
        return redirect(url_for("signin"))
```

About.html:

```
{% extends "base.html" %}
{% block head %}
<title>abour page</title>
{% endblock%}

{%block body%}
<main class="container mx-auto my-4 bg-light border "style="width:60%;">
<h1 class="p-2 border-bottom border-2">About page</h1>
<p>
  this flask app is developed for basic understandign of python-flask
</p>
<p>
  click <strong><a href="/signup" class=" btn btn-outline-success py-1">signup</a></strong> and
<strong><a href="/signin" class=" btn btn-outline-success py-1">signin</a></strong> in the nav bar

</p>
</h1></main>
{% endblock%}
```

Base.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC" crossorigin="anonymous">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM" crossorigin="anonymous"></script>
```

```
<!--<link rel="stylesheet" href="{{url_for("static", filename="css/style.css")}}"> -->
{% block head %}{% endblock %}

</head>
<body style="background: linear-gradient(70deg, blue 10%, pink);">

  <nav class="navbar navbar-expand-lg navbar-light bg-light">
    <div class="container-fluid">
      <a class="navbar-brand" href="#">Navbar</a>

<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
       <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarSupportedContent">
       <ul class="navbar-nav me-auto mb-2 mb-lg-0">
        <li class="nav-item">
         <a class="nav-link active" aria-current="page" href="/">Home</a>
        </li>
        <li class="nav-item">
         <a class="nav-link" href="/signin">signin</a>
        </li>
        <li class="nav-item">
         <a class="nav-link" href="/signup">signup</a>
        </li>
        <li class="nav-item">
         <a class="nav-link" href="/about">about</a>
        </li>
        <li class="nav-item dropdown">
         <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button" data-bs-toggle="dropdown" aria-expanded="false">
          Dropdown
         </a>
         <ul class="dropdown-menu" aria-labelledby="navbarDropdown">
          <li><a class="dropdown-item" href="#">Action</a></li>
          <li><a class="dropdown-item" href="#">Another action</a></li>
          <li><hr class="dropdown-divider"></li>
          <li><a class="dropdown-item" href="#">Something else here</a></li>
         </ul>
        </li>

       </ul>
       <form class="d-flex">
        <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">
        <button class="btn btn-outline-success" type="submit">Search</button>
       </form>
```

```
      </div>
    </div>
  </nav>


  <divclass="containermt-5">
    {% block body %}{% endblock %}
  </div>
</body>
</html>
```

Index.html

```
{% extends "base.html" %}
{% block head %}
<title>home page</title>
{% endblock%}

{%block body%}
<mainclass="container mx-auto my-4 bg-light border border-2"style="width:70%;">
<divclass="p-4">
  <h1>Welcome to the flask app</h1>
  <h2>register user list</h2>
  <div>{% for user in users%}

    <div  style="background:linear-gradient(to top,rgb(51,204,255),20%, cyan);"class="border
rounded fs-4 p-1 px-2 mb-3"style="width:40%;">

      {{user["firstname"]+" "+user["lastname"]}}
    </div>
    {% endfor %}

  </div>
</div>
</main>
{% endblock%}
```

Signin.html

```
{% extends "base.html" %}
{% block head %}
<title>Sigin page</title>
{% endblock%}

{%block body%}
<mainclass="container">
  <divclass="mx-auto mt-5 border bg-light"style="width:500px;">
  <h2class="mx-4 mt-2">SINGIN</h2>
  <formaction="{{url_for("accessbackend")}}"method="get">
    <divclass="my-2 mx-4">
```

```
      <label for="email">Email</label>

<input type="email" class="form-control" placeholder="adc@gmail.com" name="email" required/>
    </div>
    <div class="my-2 mx-4">
      <label for="password">password</label>
      <input type="password" class="form-control"  name="password" required/>
    </div>
    <input type="submit" value="submit" class="btn btn-primary my-4 mt-2 "/>


  </form></div>
</main>
{% endblock %}
```

Signup:

```
{% extends "base.html" %}
{% block head %}
<title>Signup page</title>
{% endblock %}

{% block body %}<main class="container">
  <div class="mx-auto mt-5 border bg-light" style="width: 500px;">
  <h2 class="mx-4 mt-2">SIGNUP</h2>
  <form action="{{url_for("accessbackend")}}" method="post">
    <div class="my-2 mx-4">
      <label for="firstname">firstname</label>
      <input type="text" class="form-control" placeholder="Ram" name="firstname" required/>
    </div>
    <div class="my-2 mx-4">
      <label for="lastname">lastname</label>
      <input type="text" class="form-control" placeholder="kumar" name="lastname" required/>
    </div>
    <div class="my-2 mx-4">
      <label for="email">email</label>

<input type="text" class="form-control" placeholder="abc@gmail.com" name="email" required/>
    </div>
    <div class="my-2 mx-4">
      <label for="phone">phone</label>
      <input type="text" class="form-control" placeholder="0987654321" name="phone" required/>
    </div>
    <div class="my-2 mx-4">
      <label for="password">password</label>

<input type="password" class="form-control" placeholder="password" name="password" required/>
    </div>
    <div class="my-2 mx-4">
      <label for="dob">date of brith</label>
```

```
      <input type="date" class="form-control" name="dob" required/>
    </div>
    <input type="submit" value="submit" class="btn btn-primary my-4 my-2 mt-2"/>

  </form>

  </div>
</main>
{% endblock %}
```

Information database:

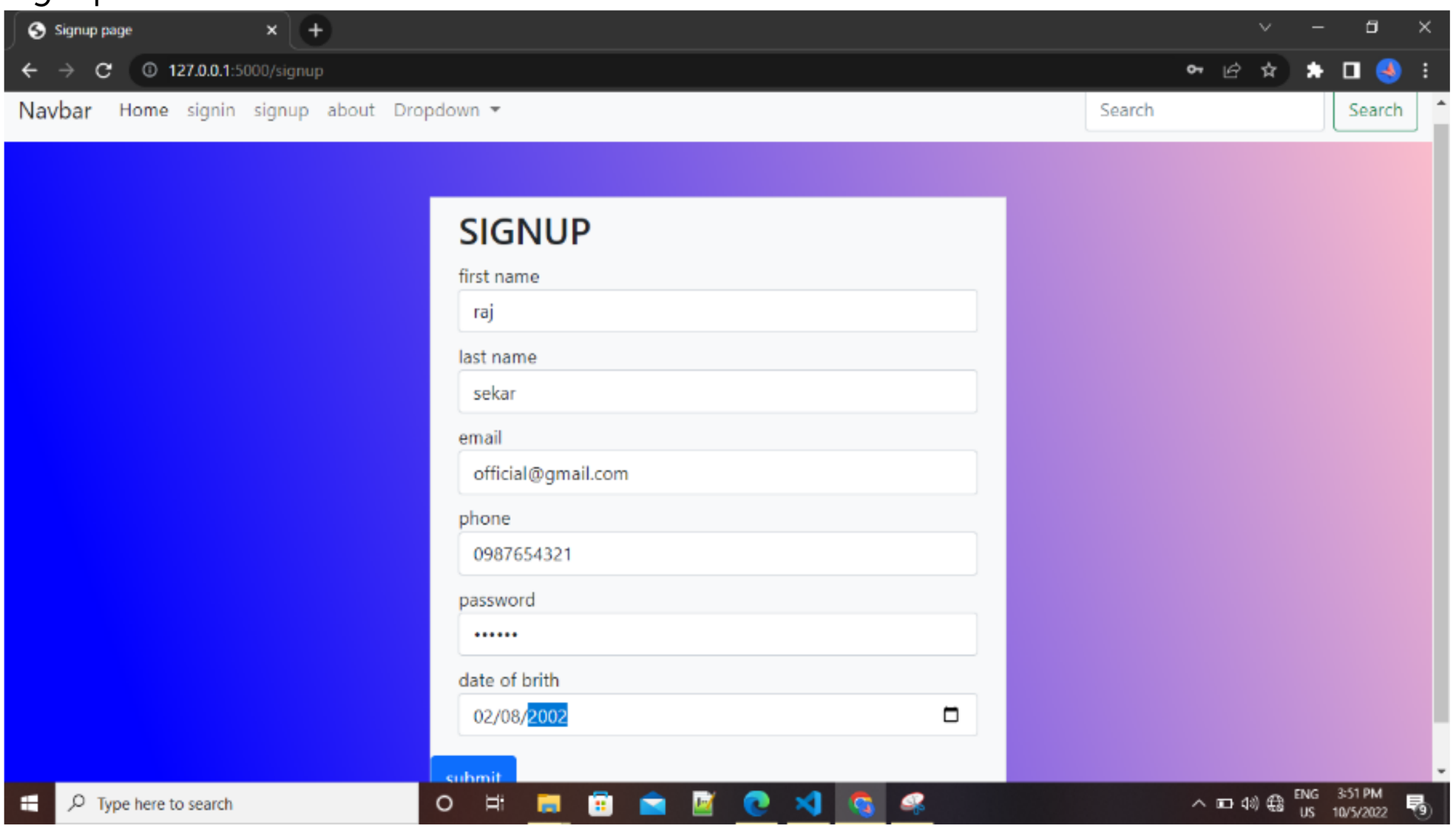
```
{% extends "base.html" %}
{% block head %}
<title>home page</title>
{% endblock %}

{% block body %}
<main class="container mx-auto my-4 bg-light border" style="width:70%;">
<div class="p-4">
  <h2>{{ user[0] + " " + user[1]}}</h2>
  <div class="border rounded fs-5 p-1 px-5 mb-3" style="width: 60%;">
    <span style="display: block;">first name:{{user[0]}}</span>
    <span style="display: block;">last name:{{user[1]}}</span>
    <span style="display: block;">email:{{user[2]}}</span>
    <span style="display: block;">phone:{{user[3]}}</span>
    <span style="display: block;">date of brith:{{user[5 ]}}</span>

  </div>


</div></main>
{% endblock %}
```

Database setup:

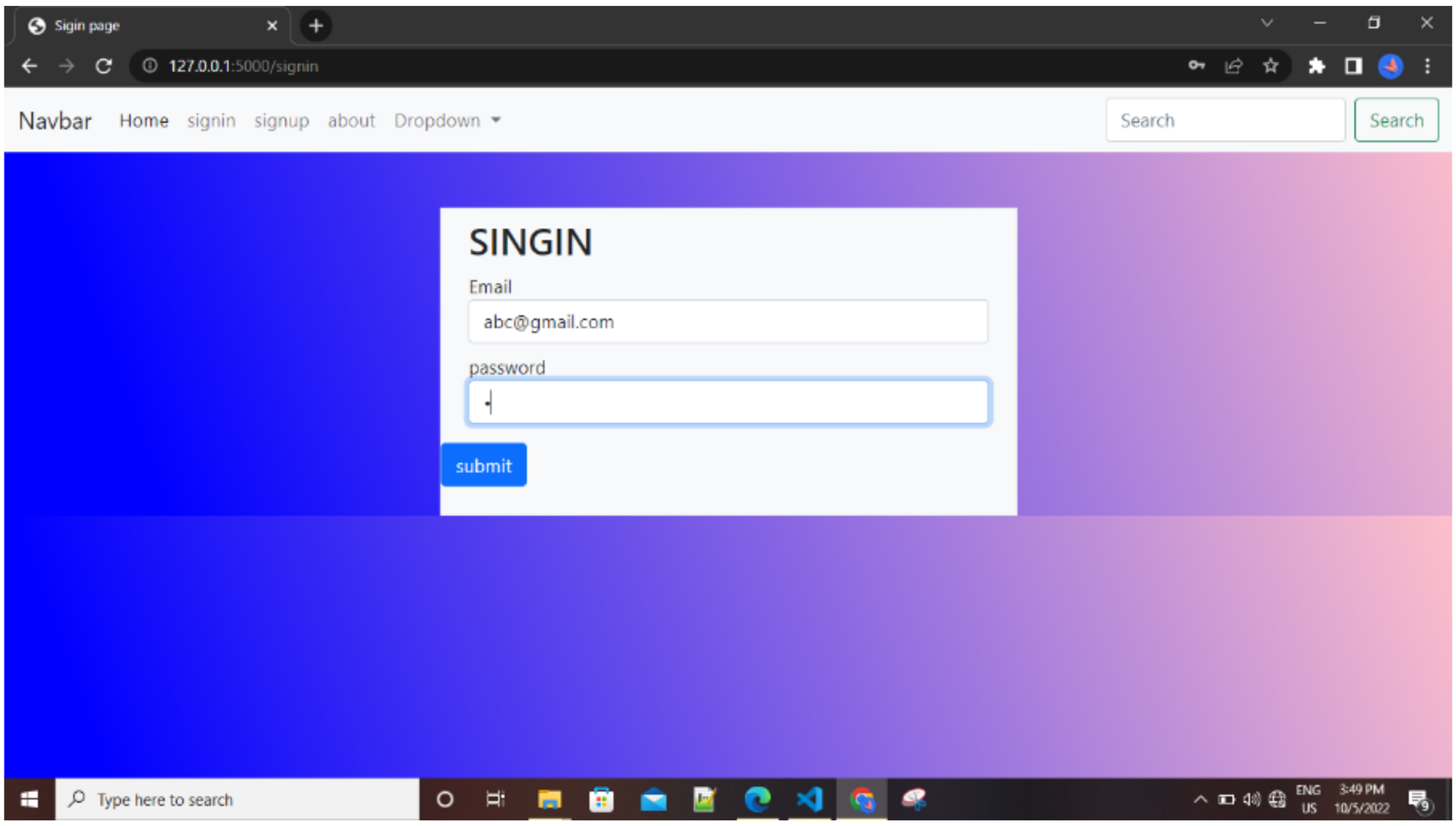
```
import sqlite3

conn =sqlite3.connect("user_base.db")
print("successfully database opened")

conn.execute(" CREATE TABLE user(firstname TEXT, lastname TEXT, email TEXT, phone TEXT, password
TEXT, dob TEXT);")

print("table created")
conn.close()
```

output:

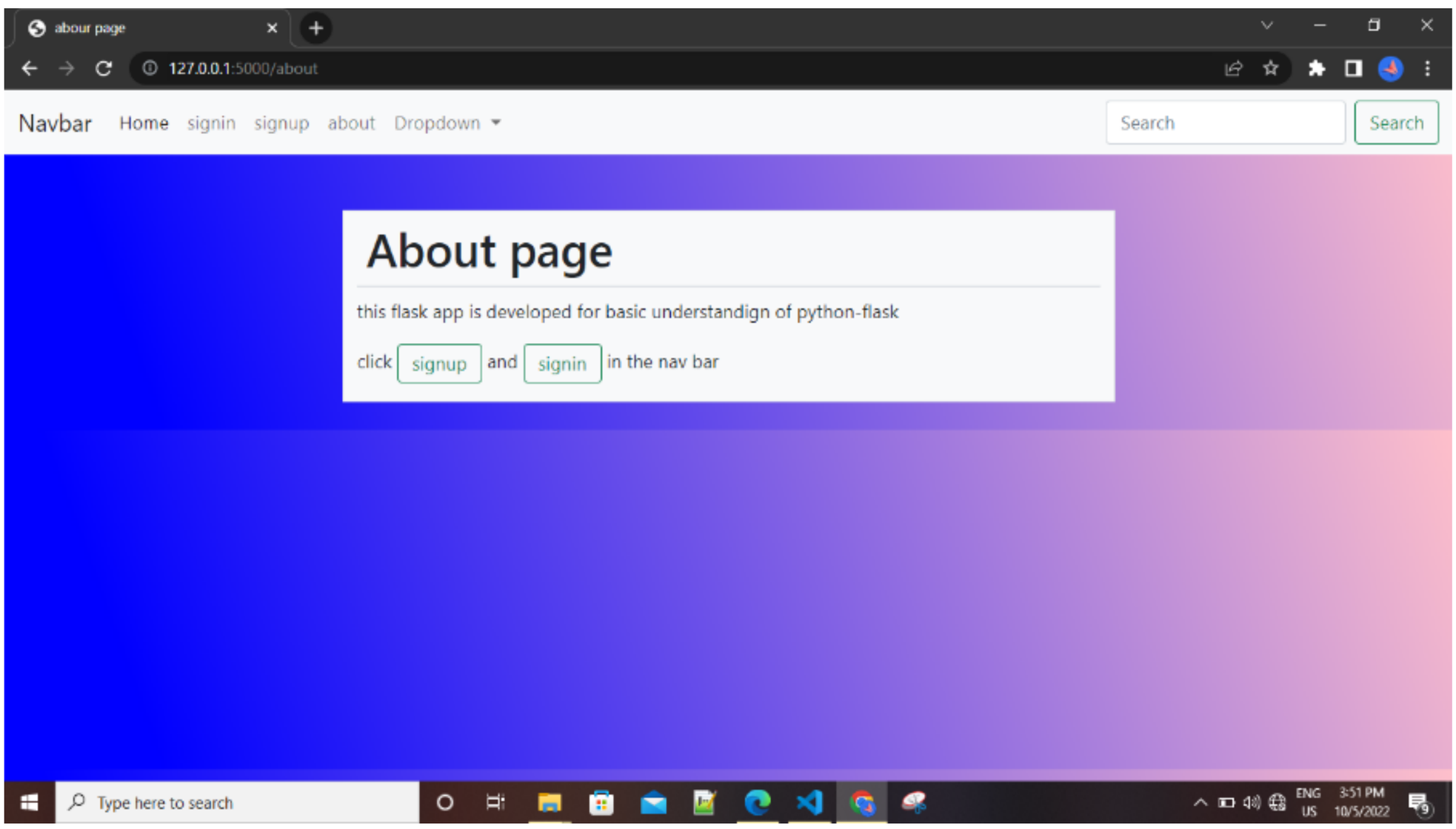
Signup:



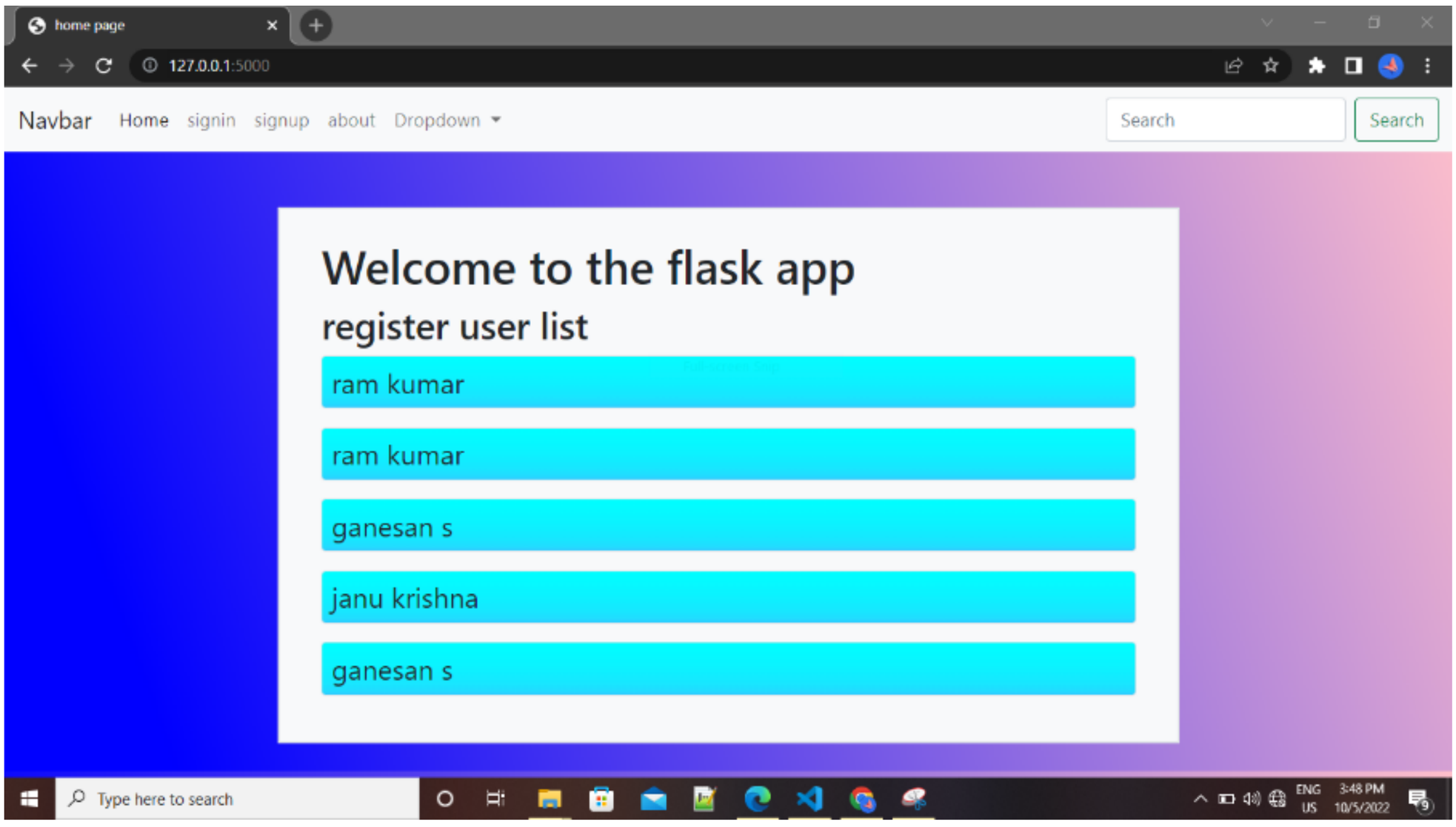
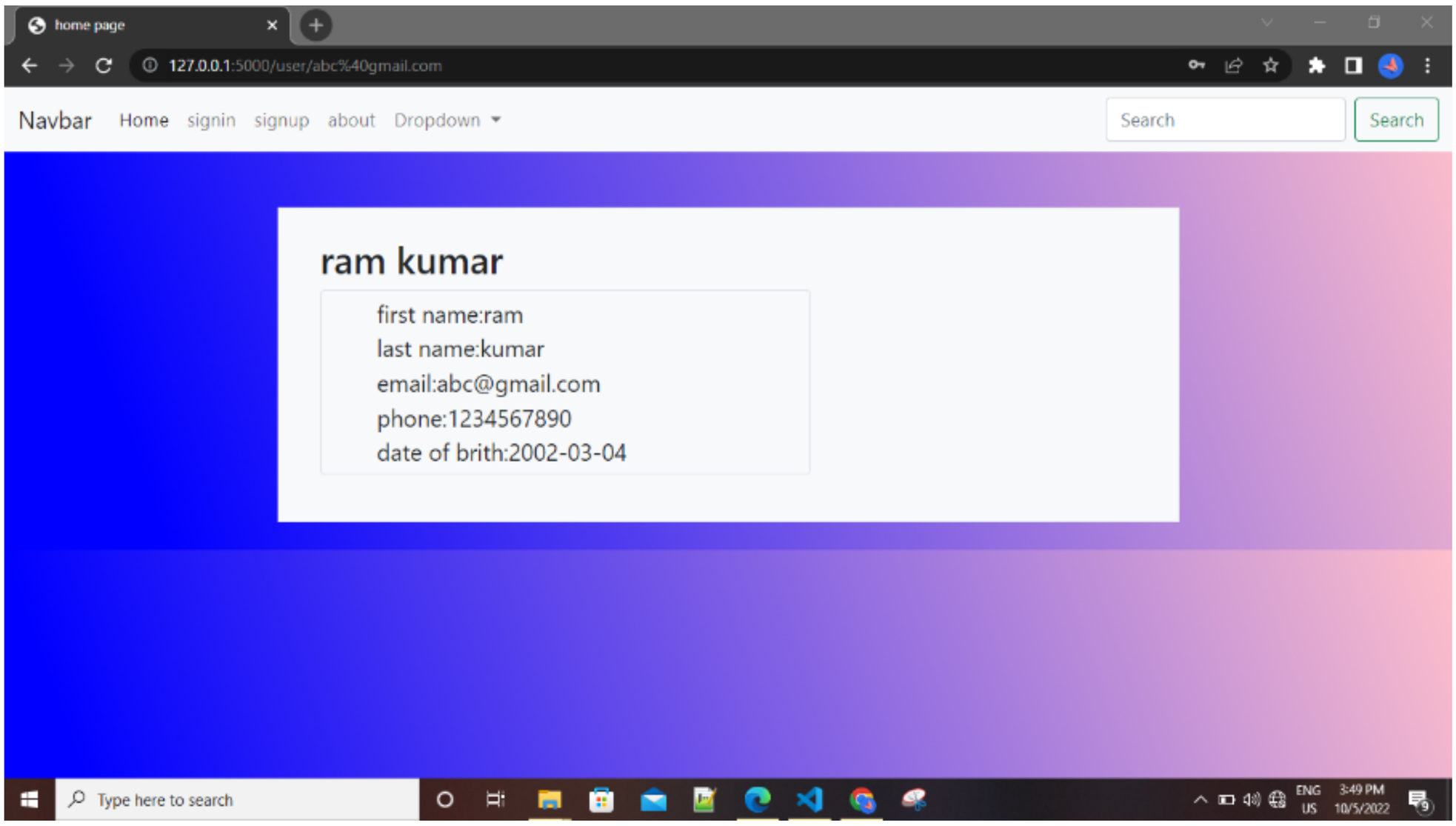
Singin:pagdsfsdsfsda



About:



Home page:



Database connectivity: