

Assignment -2

Python-flask Programming

Assignment Date	19 September 2022
Student Name	Brintha J
Student Roll Number	960519104019
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()
    return render_template("index.html",users=users)

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

```

@app.route("/signin")
defsignin():
    returnrender_template("signin.html")
@app.route("/signup")
defsignup():
    returnrender_template("signup.html")
@app.route("/user/⟦id⟧")
defuser_page(id):
    withsql.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()
        returnrender_template("user_info.html",user=user[0])

@app.route("/accessbackend",methods=["POST","GET"])
defaccessbackend():
    ifrequest.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"]

            withsql.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 registered!"

        except:
            con.rollback()
            msg="someerror"

        finally:
            print(msg)
            return redirect(url_for("home"))
    else:
        try:
            tue=request.args.get("email")
            tup=request.args.get("password")
            print(tue,tup)
            withsql.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")
    conn.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>about our 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 understanding 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 navbar
</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/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCCmLASjC" crossorigin="anonymous">
        <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJnMp4YLEuNSfAP+JcXn/tWtIaxVXM" crossorigin="anonymous"></script>

```

```

<!--<link rel="stylesheet" href="{url_for('static', filename='css/style.css')}" -->
</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>

```

```

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

<div class="container mt-5">
  {% block body %}{% endblock %}
</div>
</body>
</html>

```

Index.html

```

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

{% block body %}
<main class="container mx-auto my-4 bg-light border border-2" style="width:70%;>
<div class="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 %}
<main class="container">
  <div class="mx-auto mt-5 border bg-light" style="width:500px;>
    <h2 class="mx-4 mt-2">SINGIN</h2>
    <form action="{{ url_for('accessbackend') }}" method="get">
      <div class="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 birth</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 birth: {{ 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♡

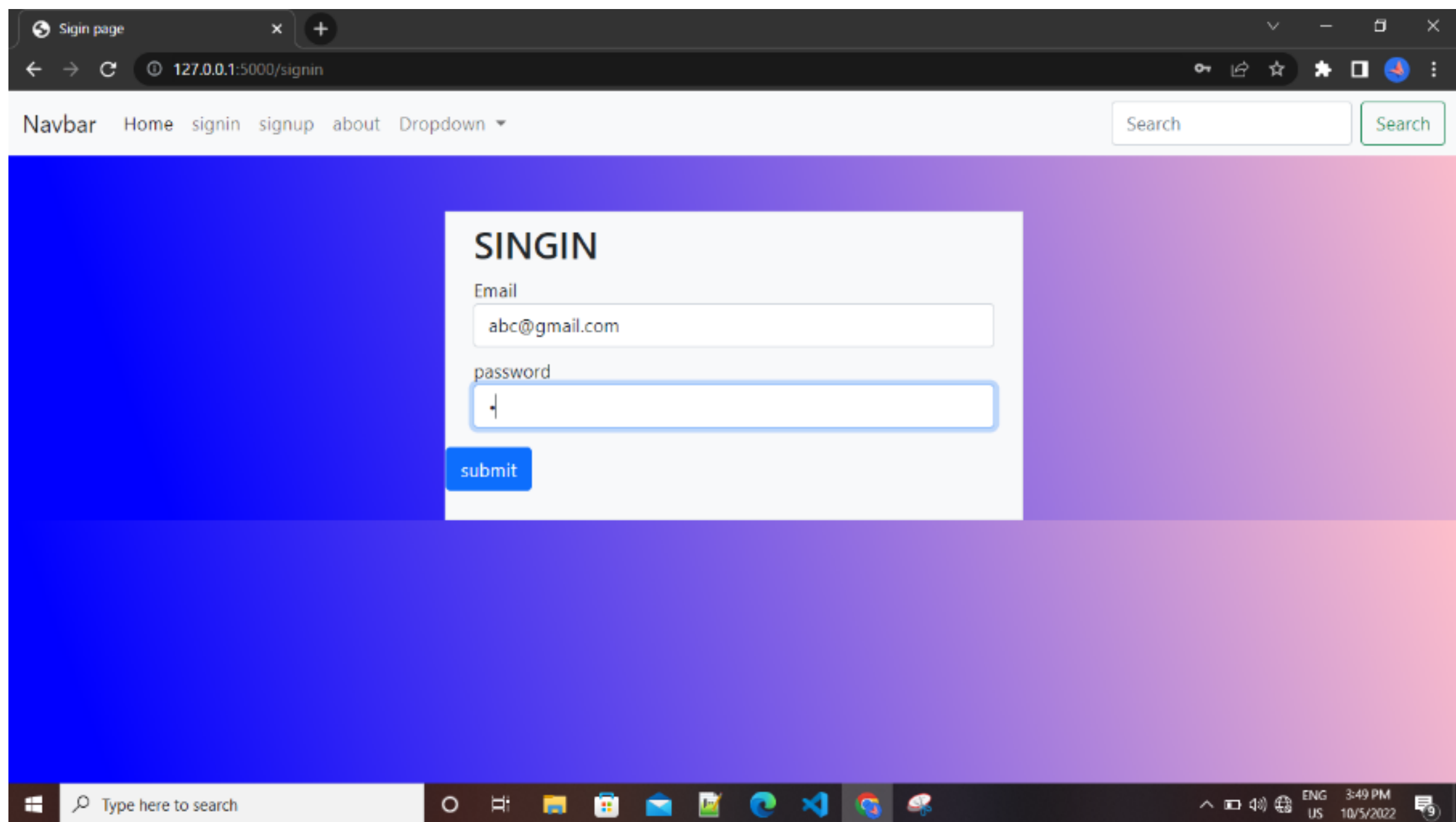
Signup

The screenshot displays a web browser window with a single tab titled "Signup page". The address bar shows the URL "127.0.0.1:5000/signup". The page features a navigation bar with links: "Navbar", "Home", "signin", "signup", "about", and a "Dropdown" menu. There are two search bars on the right, one labeled "Search". The main content area has a blue-to-purple gradient background. A white "SIGNUP" form is centered, containing the following fields and values:

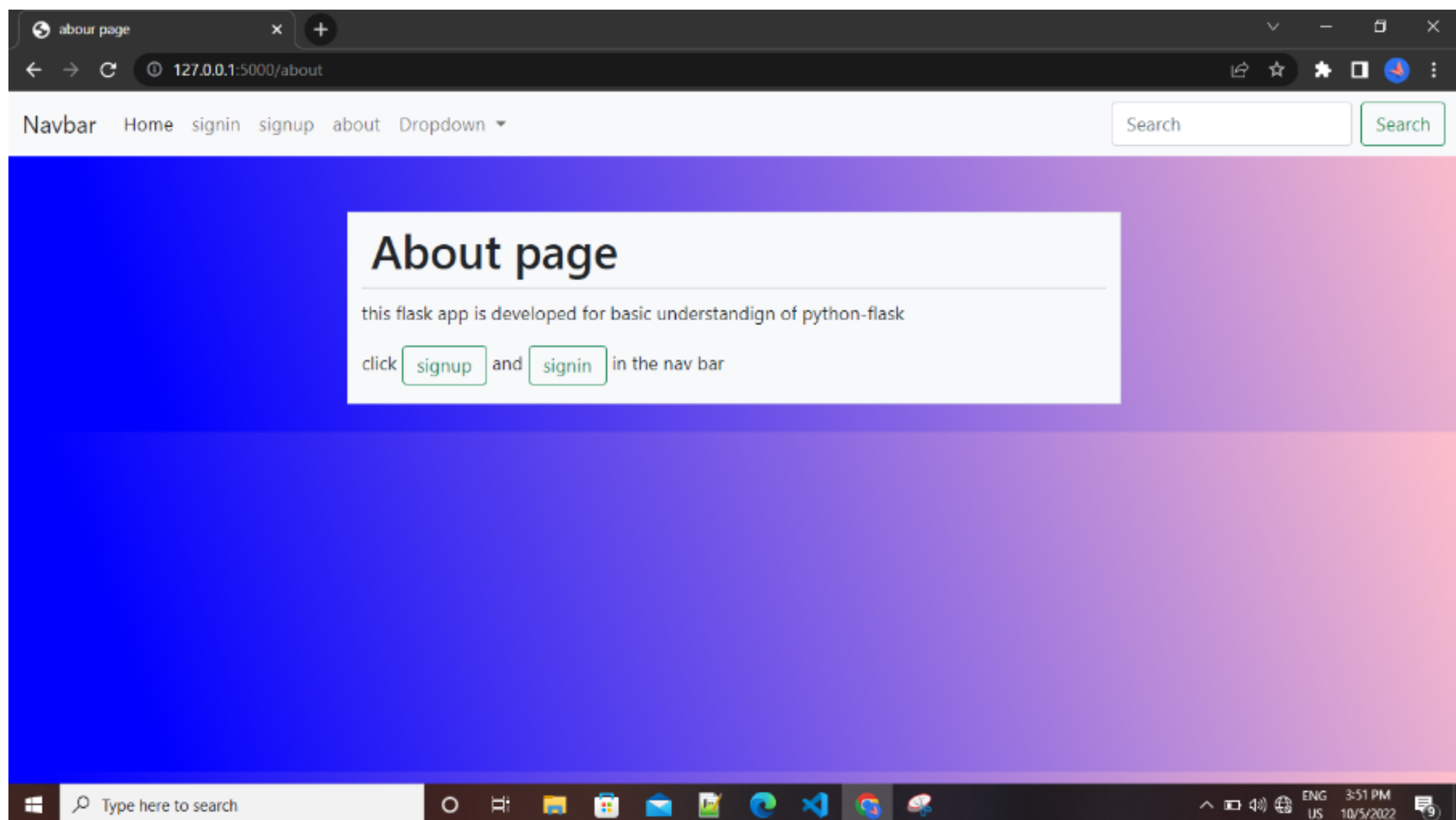
- first name: raj
- last name: sekar
- email: official@gmail.com
- phone: 0987654321
- password: *****
- date of birth: 02/08/2002

A blue "submit" button is located at the bottom left of the form. The Windows taskbar at the bottom shows the search bar with the text "Type here to search" and several application icons. The system tray on the right indicates the language is "ENG US", the time is "3:51 PM", and the date is "10/5/2022".

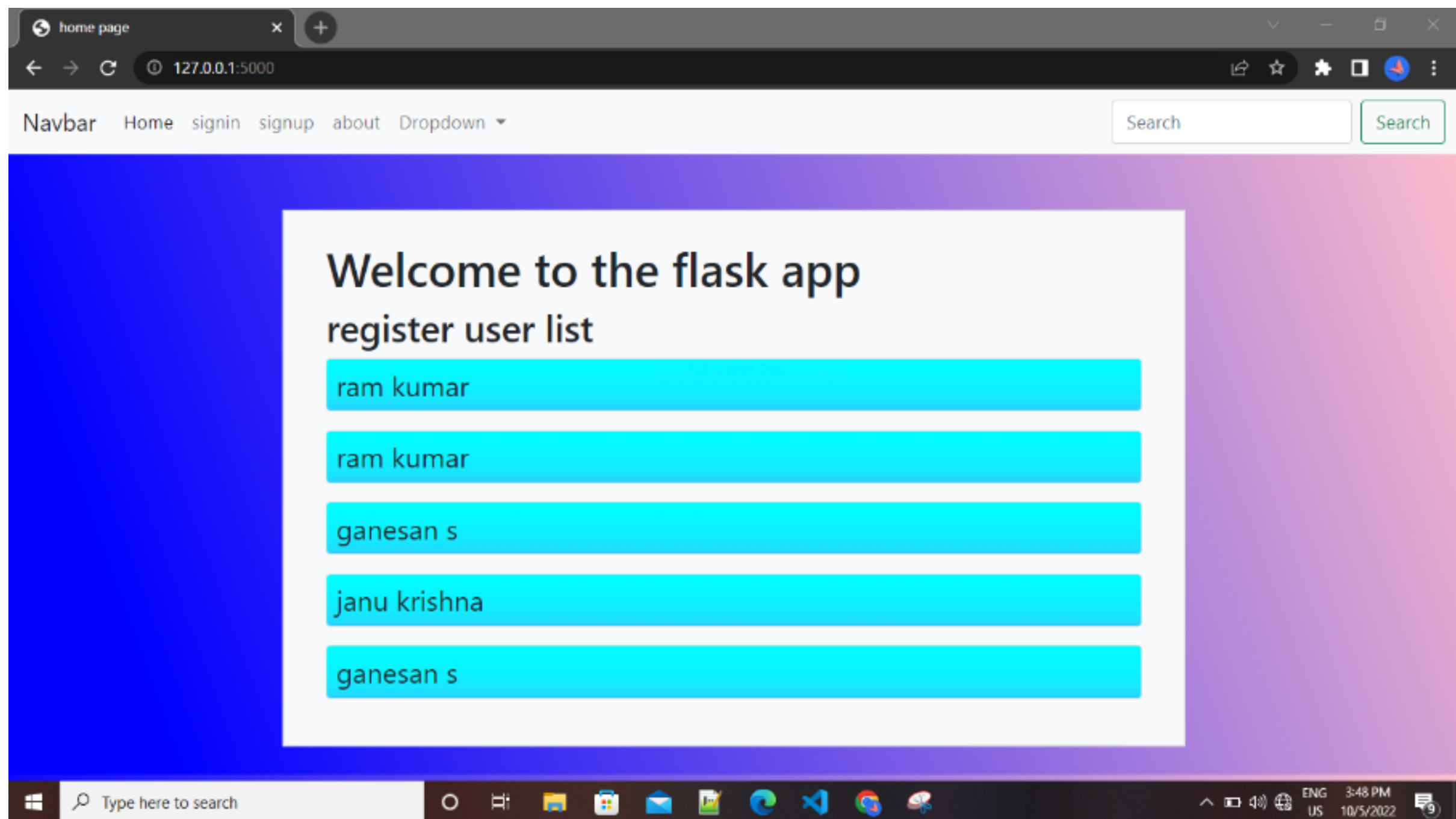
Singin♥pagdsfsdsfsda



About



Home page



Database connectivity

