

## Assignment -2

### Python-flask Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

#### Question-1:

##### Question-1:

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="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)
            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>
{% 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")

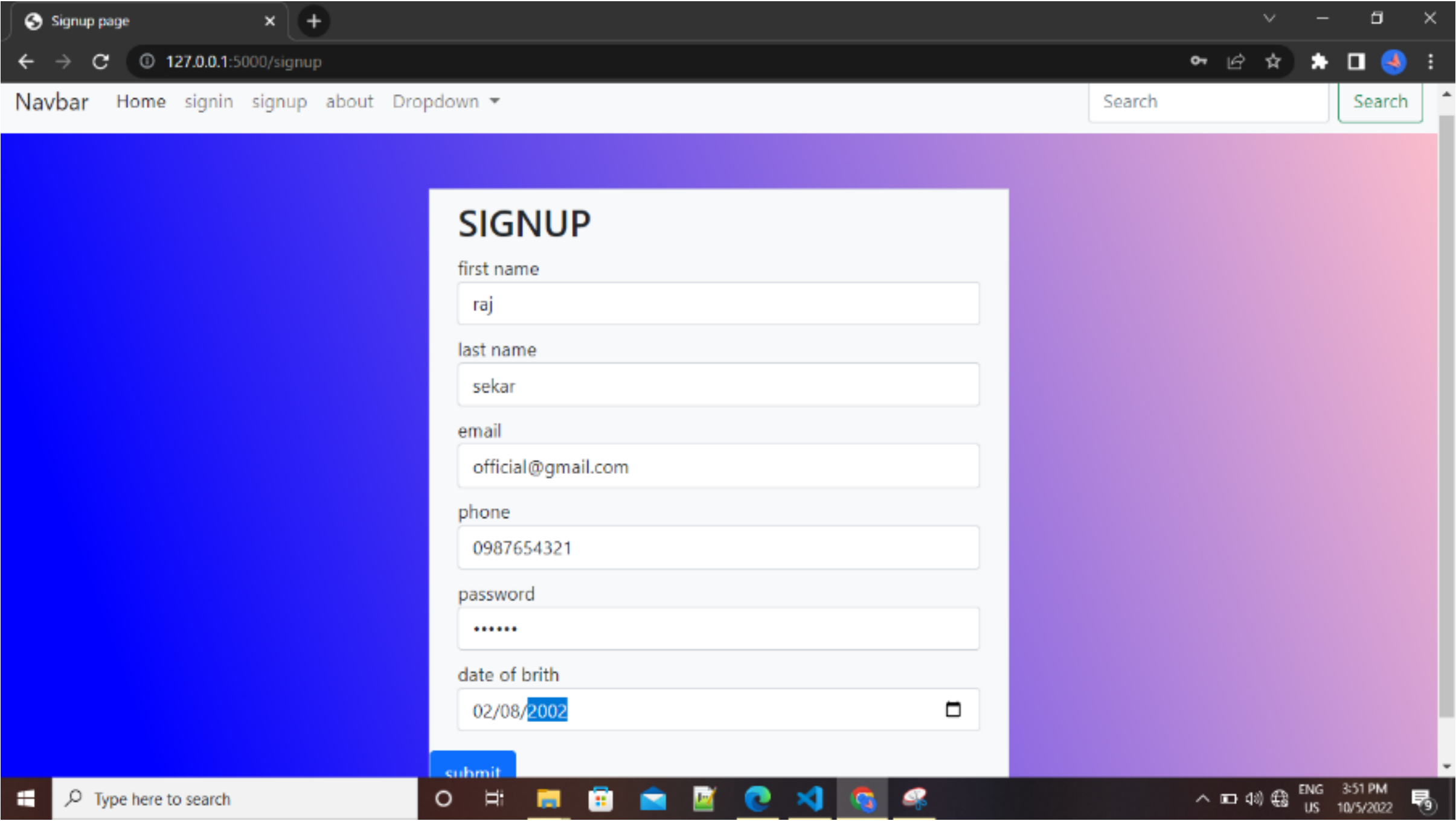
conn.execute("CREATE TABLE user(firstname TEXT,lastname TEXT,email TEXT,phone TEXT,password TEXT,dob TEXT);")

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

```

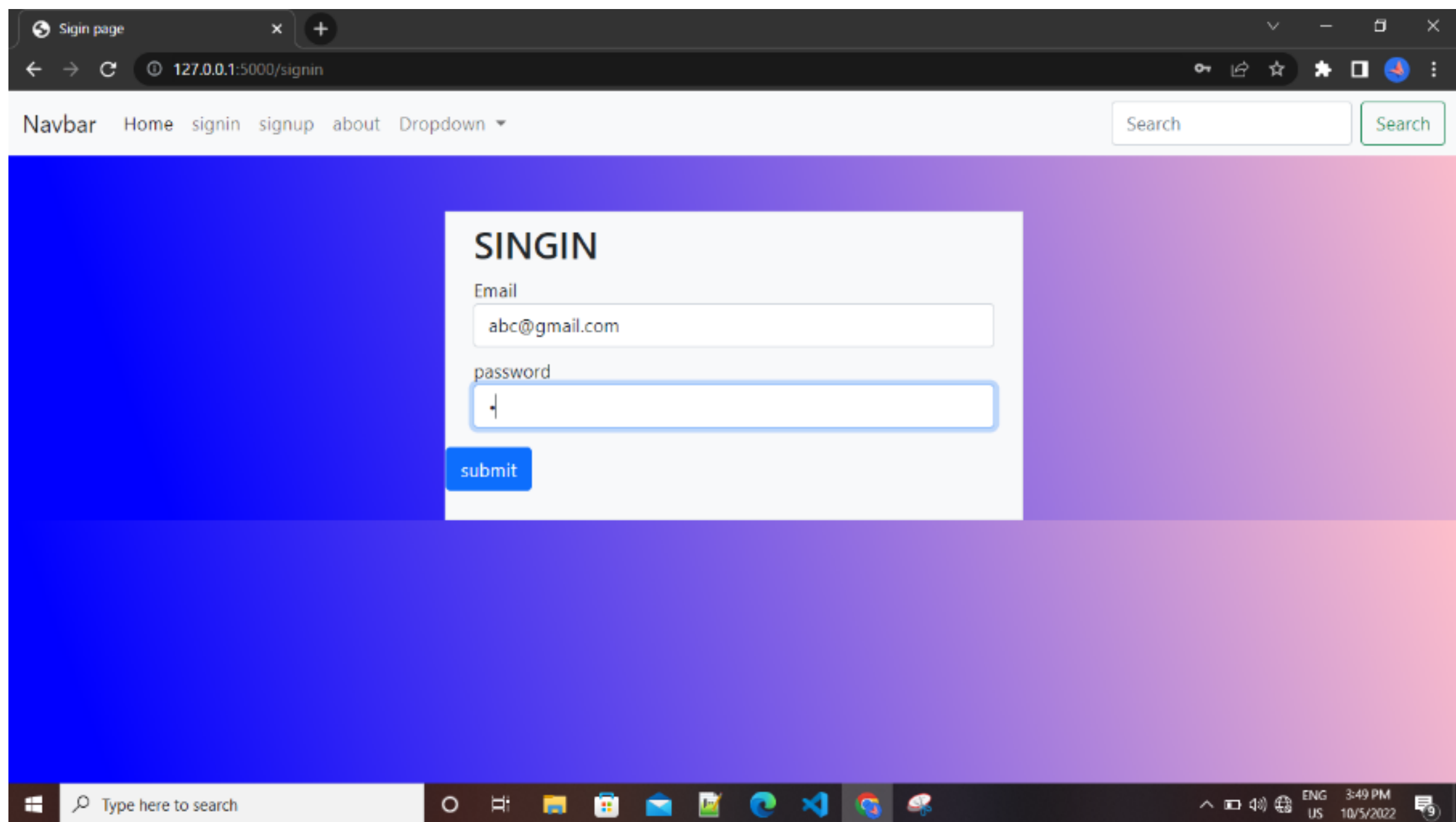
output:

Signup:

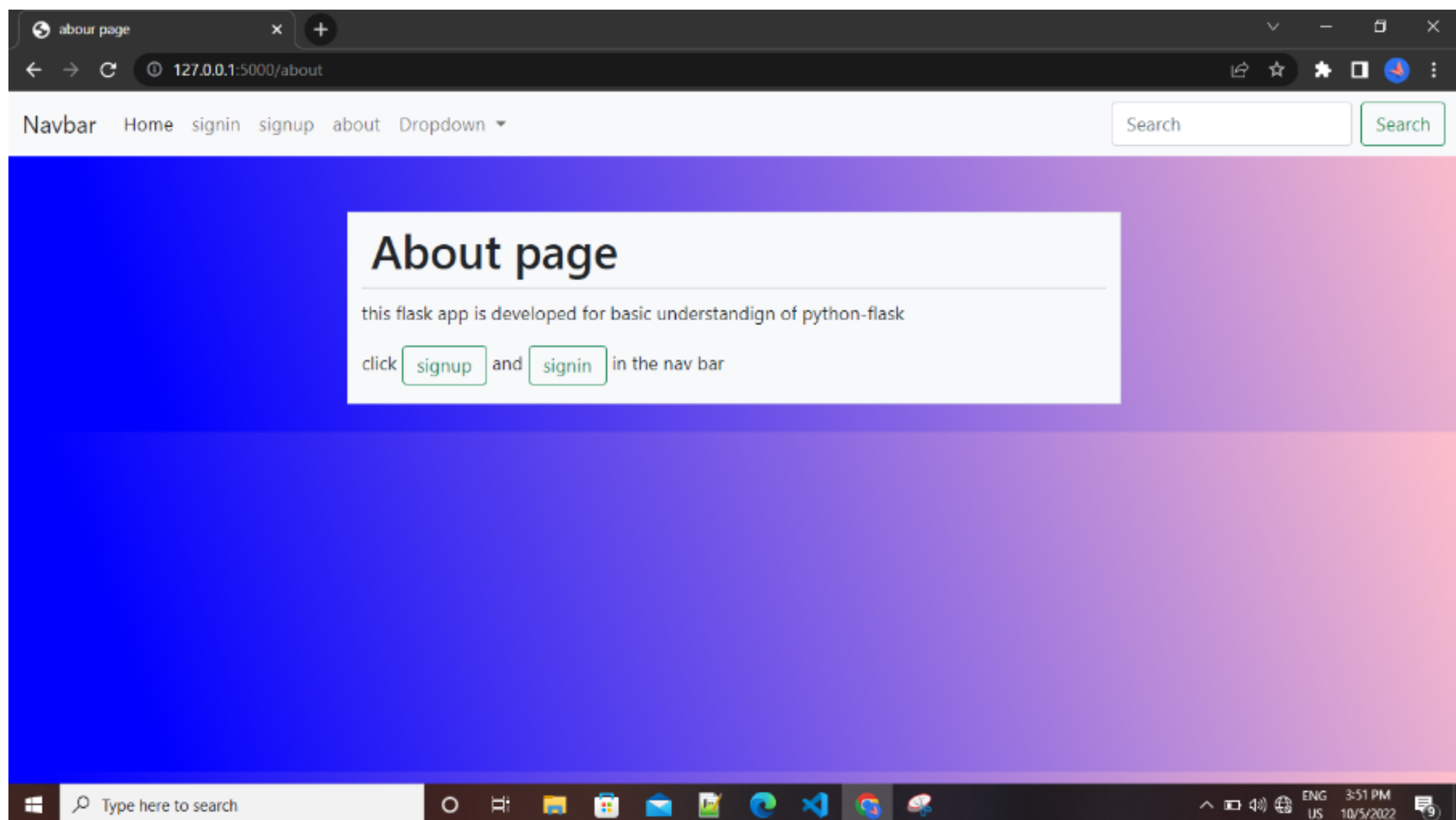


SignIn:pagdsfsdsfsda

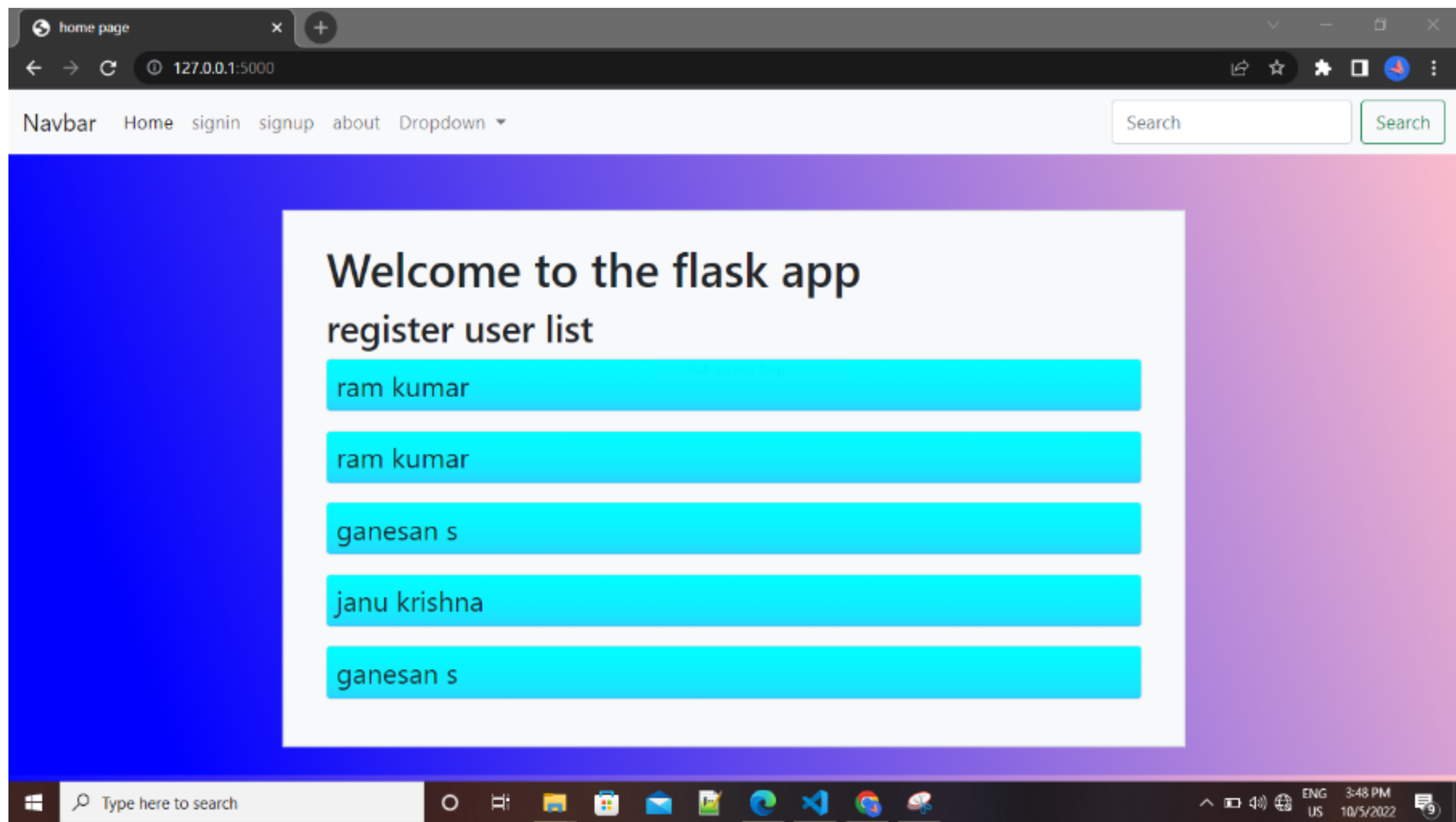




## About



## Home page



## Database connectivity

