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Nutrition Assistant Application

app.py

```
from flask import Flask, render_template,request

from sendgrid import SendGridAPIClient

from sendgrid.helpers.mail import Mail

import random

app = Flask(__name__)

@app.route("/")

def main():

    return render_template("index.html")

@app.route("/signin")

def signin():

    return render_template("signin.html")

@app.route("/signup")

def signup():

    return render_template("signup.html")

@app.route("/signupvalid",methods = ["POST","GET"])

def signpv():

    if request.method == "POST":

        global mail

        global user

        global passwd
```

```

mail = request.form.get("emailaddress")

user = request.form.get("username")

passwd = request.form.get("passwd")

userstatus = ""

mailstatus = ""

passwdstatus = ""

if (user==""):

    userstatus = "Please enter valid username"

elif (mail==""):

    mailstatus = "Please enter valid email"

elif (passwd==""):

    passwdstatus = "Please enter valid password"

else:

    sentotp(user,mail)

    return render_template("validate.html")

return
render_template("signup.html",mailstatus=mailstatus,userstatus=userstatus,passwdstatus=passwdstatus)

@app.route("/checkotp",methods = ["POST","GET"])

def checkotp():

    if request.method == "POST":

        rotp = request.form.get("otp")

        if (str(rotp)==str(sotp)):

            result = "Success"

            return render_template("result.html",result=result)

```

```

else:

    status = "Please enter valid OTP"

    return render_template("validate.html",status=status)

def sentotp(user,mail):

    global sotp

    sotp = random.randint(1000,9999)

    message = Mail(

    from_email='dhivyavpy@gmail.com',

    to_emails=mail,

    subject='Otp verification',

    html_content=f'Hello {user} This is OTP - {sotp}')

    sg=SendGridAPIClient("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")

    response = sg.send(message)

if __name__ == "__main__":

    app.run(debug=True)

```

base.html

```

<!DOCTYPE html>

<html>

<head>

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <!-- CSS only -->

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-

```

iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYa1GyVh/UjpbCx/TYkiZhlZB6+fzT"
crossorigin="anonymous">

<title>Nutrition Assistant Application</title>

</head>

<body style="color: white; background-color: darkcyan;">

<nav class="navbar navbar-expand-lg bg-light">

<div class="container-fluid">

Nutrition Assistant Application

<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNavAltMarkup" aria-controls="navbarNavAltMarkup" aria-expanded="false" aria-label="Toggle navigation">

</button>

<div class="collapse navbar-collapse" id="navbarNavAltMarkup">

<div class="navbar-nav">

Home

Sign up

Sign in

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

</nav>

{% block content %}

{% endblock %}

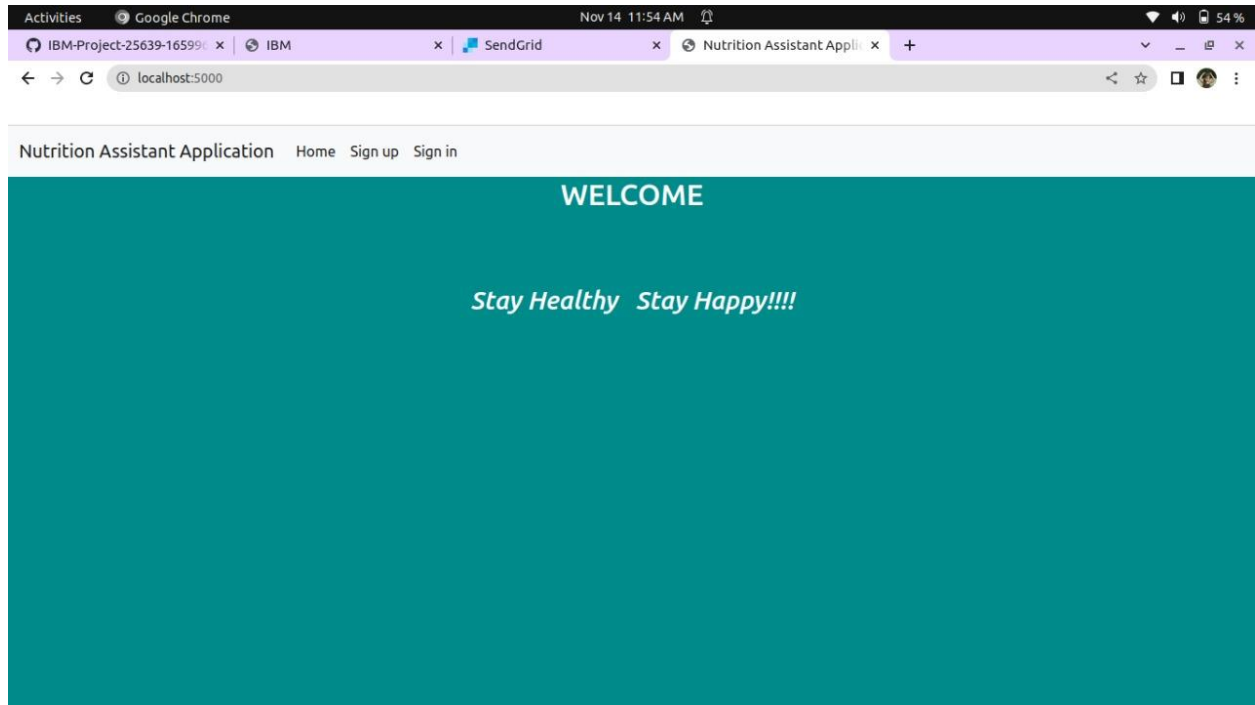
<!-- JavaScript Bundle with Popper -->

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js" integrity="sha384-

```
u10knCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIH17NnikvbZlHgTPOOmMi466C8"
crossorigin="anonymous"></script>

</body></html>
```

Output:



Signup.html

```
{% extends "base.html" %}

{% block title %}Signup Page{% endblock %}

{% block content %}

<!DOCTYPE html>

<html>

<head>

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <title>Sign up</title>
```

```
</head>

<center>

<body>

    <h1>Sign Up</h1>

    <form action="{{ url_for('signupv')}}" method="POST">

        <label>Username:</label>

        <input type="text" name="username">

        <span style="color:red">{{ userstatus }}</span>

        <br><br>

        <label>E-mail:</label>

        <input type="email" name="emailaddress">

        <span style="color:red">{{ mailstatus }}</span>

        <br><br>

        <label>Create Password:</label>

        <input type="password" name="passwd">

        <span style="color:red">{{ passwdstatus }}</span>

        <br><br>

        <input type="submit" name="signup">

        <br><br>

    </form>

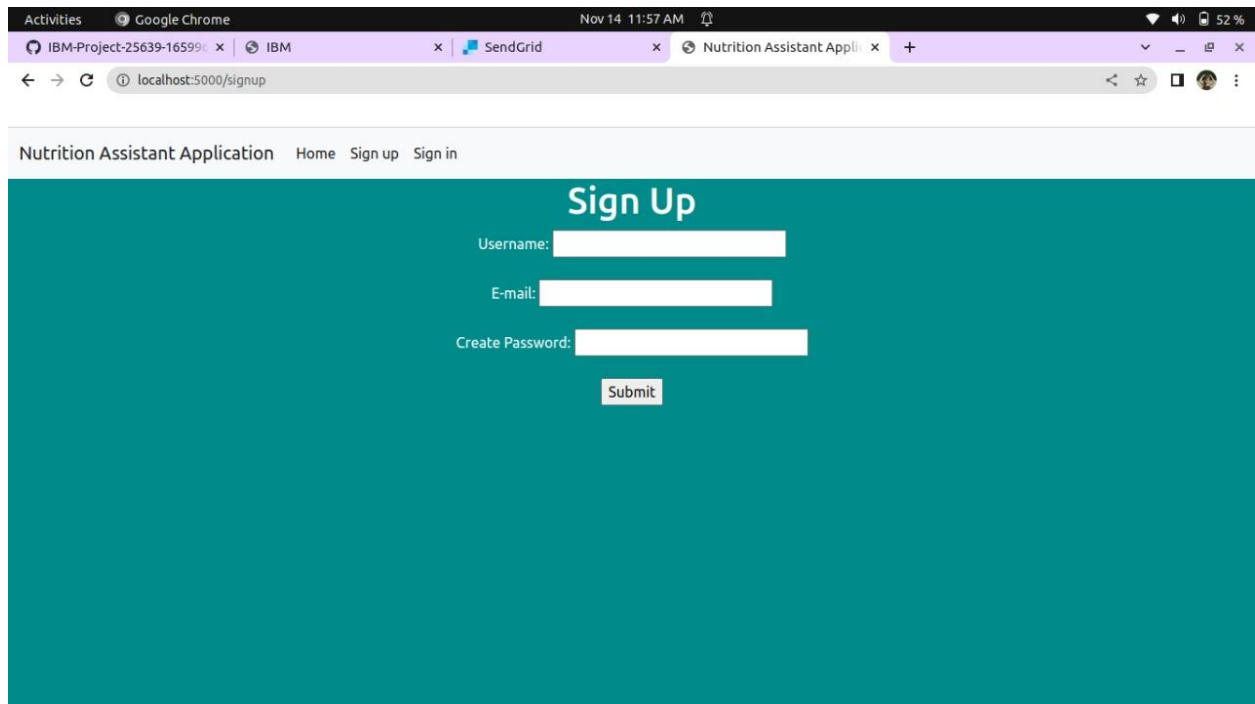
</body>

</center>

</html>
```

```
{% endblock %}
```

Output:



validate .html

```
{% extends "base.html" %}
```

```
{% block title %}Validate Page{% endblock %}
```

```
{% block content %}
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="utf-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">

<title>Validation Page</title>

</head>

<center>

<body>

<h1>OTP is sent to your mail</h1>

    <form action="{{ url_for('checkotp')}}" method="POST">

        <label>Enter OTP:</label>

        <input type="number" id="otp" name="otp">

        <span style="color:red">{{ status }}</span>

        <br><br>

        <input type="submit" name="signup">

        <br><br>

    </form>

</body>

</center>

</html>

{% endblock %}
```


Output:

