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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 signupv():
  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")
render_template("signup.html",mailstatus=mailstatus,userstatus=userstatus,passwdstatus=pas
swdstatus)
@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)
```

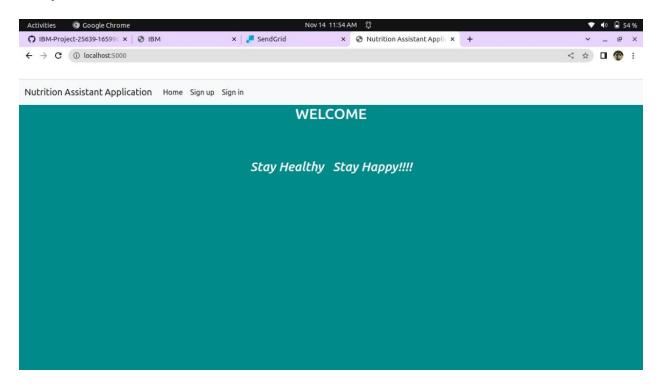
```
else:
      status = "Please enter valid OTP"
      return render template("validate.html",status=status)
def sentotp(user,mail):
  global sotp
  sotp = random.randint(1000,9999)
  message = Mail(
  from email='dhivyavpy@gmail.com',
  to emails=mail,
  subject='Otp verification',
  html_content=f'Hello {user} This is OTP - {sotp}')
sg=SendGridAPIClient("SG.oW8nJka8R3WqPjvES PFQ.EOPIDaJUz oxRyKS Z8y6Qk8nEQBmhl9
w6q9V3xgXn8")
  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"</pre>
rel="stylesheet" integrity="sha384-
```

```
iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/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">
  <a class="navbar-brand" href="/">Nutrition Assistant Application</a>
  <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNavAltMarkup" aria-controls="navbarNavAltMarkup" aria-expanded="false"
aria-label="Toggle navigation">
   <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
   <div class="navbar-nav">
    <a class="nav-link active" aria-current="page" href="/">Home</a>
    <a class="nav-link active" aria-current="page" href="/signup">Sign up</a>
    <a class="nav-link active" aria-current="page" href="/signin">Sign in</a>
</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"</pre>
integrity="sha384-
```

u10knCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvbZlHgTPOOmMi466C8" crossorigin="anonymous"></script>

</body></html>

Output:

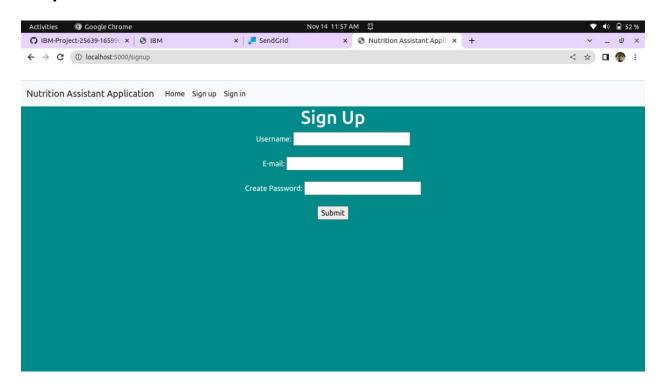


Signup.html

```
</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:

