

Team ID	PNT2022TMID36244
Project Name	Nutrition Assistant Application

SPRINT-1

1.app.py

```
from flask import Flask, render_template, request, redirect, url_for, session
```

```
import ibm_db
```

```
import re
```

```
app = Flask(__name__)
```

```
app.secret_key = 'a'
```

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-4883-8fc0-  
d6a8c9f7a08f.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=31321;SECURITY=SSL;SS  
LServerCertificate=DigiCertGlobalRootCA.crt;UID=ksm24043;PWD=ZXsdfH0rppztWofo","")
```

```
@app.route('/')
```

```
def home():
```

```
    return render_template('register.html')
```

```
@app.route('/login', methods=['GET', 'POST'])
```

```
def login():
```

```
    global userid
```

```
    msg = "
```

```
    if request.method == 'POST' and 'username' in request.form and 'password' in request.form:
```

```
        username = request.form['username']
```

```
        password = request.form['password']
```

```
        stmt = ibm_db.prepare(conn,'SELECT * FROM accounts WHERE username = ?AND password = ?')
```

```
        ibm_db.bind_param(stmt,1,username)
```

```
        ibm_db.bind_param(stmt,2,password)
```

```
        ibm_db.execute(stmt)
```

```
        account = ibm_db.fetch_assoc(stmt)
```

```
        if account:
```

```
            session['loggedin'] = True
```

```
            session['username'] = account['USERNAME']
```

```
            msg = 'Logged in successfully !'
```

```
            return render_template('index.html', msg = msg)
```

```
        else:
```

```

msg = 'Incorrect username / password !'
return render_template('login.html', msg = msg)

@app.route('/logout')
def logout():
    session.pop('loggedin', None)
    session.pop('id', None)
    session.pop('username', None)
    return redirect(url_for('login'))

@app.route('/register', methods =['GET', 'POST'])
def register():
    msg = "
    if request.method == 'POST':
        username = request.form['username']
        email = request.form['email']
        password = request.form['password']
        sql = "SELECT * FROM accounts WHERE username = ? "
        stmt = ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            msg = 'Account already exists !'
            elif not re.match(r'^@[^@]+\.[^@]+', email):
                msg = 'Invalid email address !'
            elif not re.match(r'[A-Za-z0-9]+', username):
                msg = 'Username must contain only characters and numbers !'
            elif not username or not password or not email:
                msg = 'Please fill out the form !'
            else:
                insert_sql = "INSERT INTO accounts VALUES (?, ?, ?)"
                stmt = ibm_db.prepare(conn,insert_sql)

```

```

ibm_db.bind_param(stmt, 1, username)
ibm_db.bind_param(stmt, 2, email)
ibm_db.bind_param(stmt, 3, password)
ibm_db.execute(stmt)
msg = 'You have successfully registered !'
elif request.method == 'POST':
msg = 'Please fill out the form !'
return render_template('register.html', msg = msg)
if __name__ == '__main__':
app.run(debug = True)

```

2.register.html

```

<html>
<head>
<meta charset="UTF-8">
<title> Register </title>
<link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
</head>
<body></br></br></br></br></br>
<div align="center">
<div align="center" class="border">
<div class="header">
<h1 class="word">Register</h1>
</div></br></br></br>
<h2 class="word">
<form action="{{ url_for('register') }}" method="post">
<div class="msg">{{ msg }}</div>
<input id="username" name="username" type="text" placeholder="Enter Your
Username" class="textbox"/></br></br>
<input id="email" name="email" type="email" placeholder="Enter Your
Email" class="textbox"/></br></br>
<input id="password" name="password" type="text" placeholder="Enter Your Password"
class="textbox"/></br></br>

```

```
<input type="submit" class="btn" value="Sign Up"></br>
</form>
</h2>
<p class="bottom">Already have an account? <a class="bottom"
href="{ { url_for('login') } }"> Sign In here</a></p>
</div>
</div>
</body>
</html>
```

3.login.html

```
<html>
<head>
<meta charset="UTF-8">
<title> Login </title>
<link rel="stylesheet" href="{ { url_for('static', filename='style.css') } }">
</head>
<body></br></br></br></br></br>
<div align="center">
<div align="center" class="border">
<div class="header">
<h1 class="word">Login</h1>
</div></br></br></br>
<h2 class="word">
<form action="{ { url_for('login') } }" method="post">
<div class="msg">{ { msg } }</div>
<input id="username" name="username" type="text" placeholder="Enter Your
Username" class="textbox"/></br></br>
<input id="password" name="password" type="password" placeholder="Enter Your
Password" class="textbox"/></br></br></br>
<input type="submit" class="btn" value="Sign In"></br></br>
</form>
</h2>
```

```
<p class="bottom">Don't have an account? <a class="bottom"
href="{{ {url_for('register')}} }}"> Sign Up here</a></p>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

4.index.html

```
<html>
```

```
<head>
```

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

```
<title> Index </title>
```

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

```
</head>
```

```
<body><br><br><br><br><br>
```

```
<div align="center">
```

```
<div align="center" class="border">
```

```
<div class="header">
```

```
<h1 class="word">Index</h1>
```

```
</div><br><br><br>
```

```
<h1 class="bottom">
```

```
Hi {{ session.username }}!!<br><br> Welcome to the index page...
```

```
</h1><br><br><br>
```

```
<a href="{{ url_for('logout') }}" class="btn">Logout</a>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

5.style.css

```
.header{
```

```
padding: 5px 120px;
```

```
width: 150px;
```

```
height: 70px;
```

```
background-color: #236B8E;  
}
```

```
.border{  
padding: 80px 50px;  
width: 400px;  
height: 450px;  
border: 1px solid #236B8E;  
border-radius: 0px;  
background-color: #9AC0CD;  
}
```

```
.btn {  
padding: 10px 40px;  
background-color: #236B8E;  
color: #FFFFFF;  
font-style: oblique;  
font-weight: bold;  
border-radius: 10px;  
}
```

```
.textbox{  
padding: 10px 40px;  
background-color: #236B8E;  
color: #FFFFFF;  
border-radius: 10px;  
}
```

```
::placeholder {  
color: #FFFFFF;  
opacity: 1;  
font-style: oblique;  
font-weight: bold;  
}
```

```
.word{  
color: #FFFFFF;
```

```
font-style: oblique;
```

```
font-weight: bold;
```

```
}
```

```
.bottom{
```

```
color: #236B8E;
```

```
font-style: oblique;
```

```
font-weight: bold;
```

```
}
```

Output: