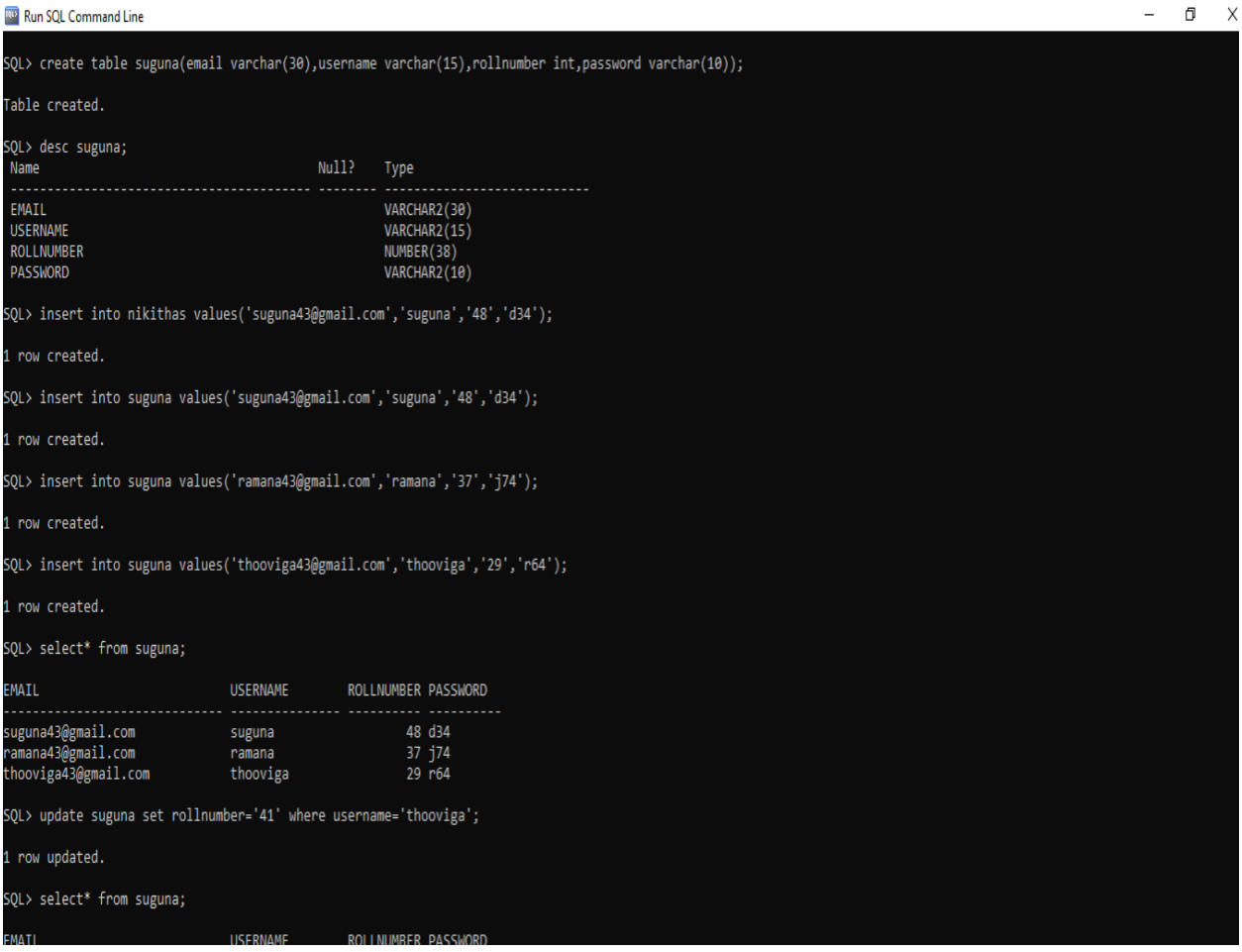
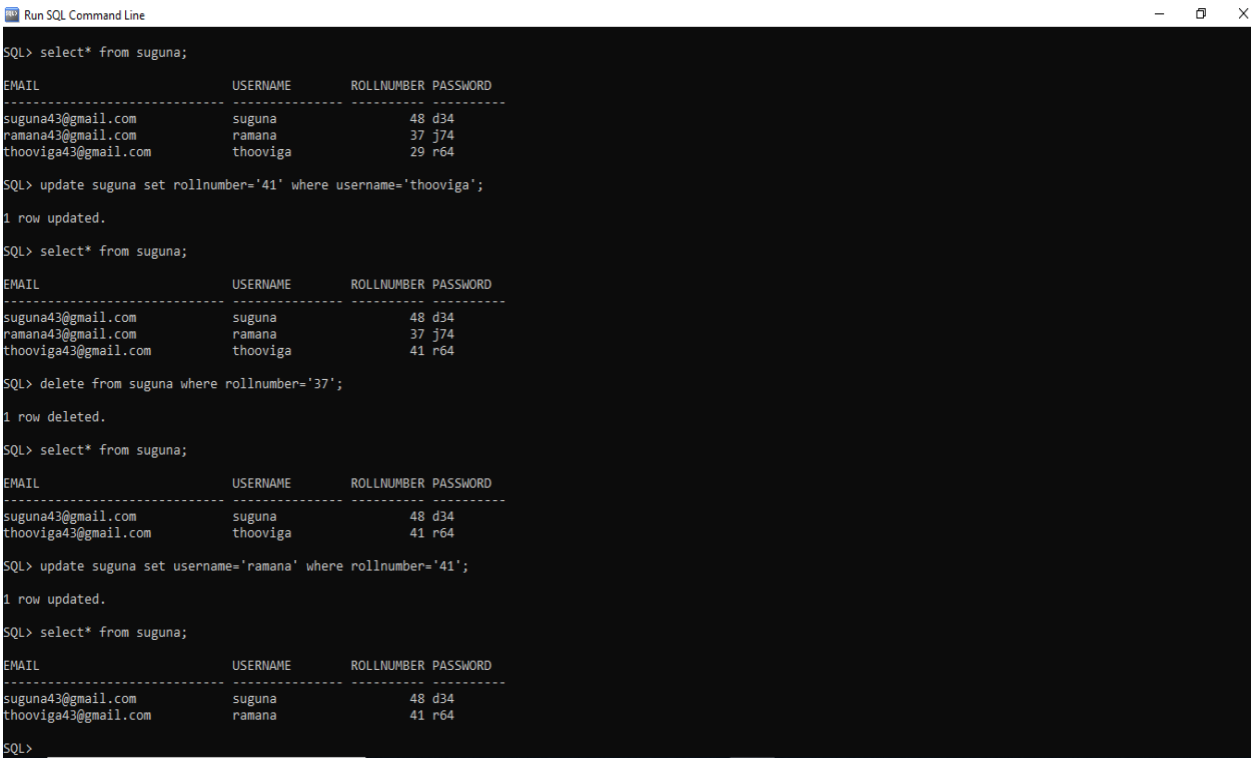
ASSIGNMENT-3

TEAM ID	PNT2022TMID49560
PROJECT NAME	CUSTOMER CARE REGISTRY
NAME	SUGUNADEVI.T
ROLL NO	950019104048

1. Create User table with user with email, username, rollnumber, password.



2. Perform UPDATE, DELETE Queries with user table



3. Connect python code to db2

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME= b0aebb68-94fa-46ec-a1fc 1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=31249;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=bbl44349;PWD=ScsmkFG3iGR4Ccug",",")

4. **Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields, store the data in the database and navigate to the login page to authenticate user username and password. If the user is valid show the welcome page**

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=b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=31249;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=ldc29737;PWD=8chltNu9YvPRo0Sw","")
@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']
        password = request.form['password']
        email = request.form['email']
        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, password)
            ibm_db.bind_param(stmt, 3, email)
            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)
```

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>
```

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="password" name="password" type="password" placeholder="Enter Your
Password" class="textbox"/></br></br>
                <input id="email" name="email" type="text" placeholder="Enter Your Email ID"
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>
```

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>
```

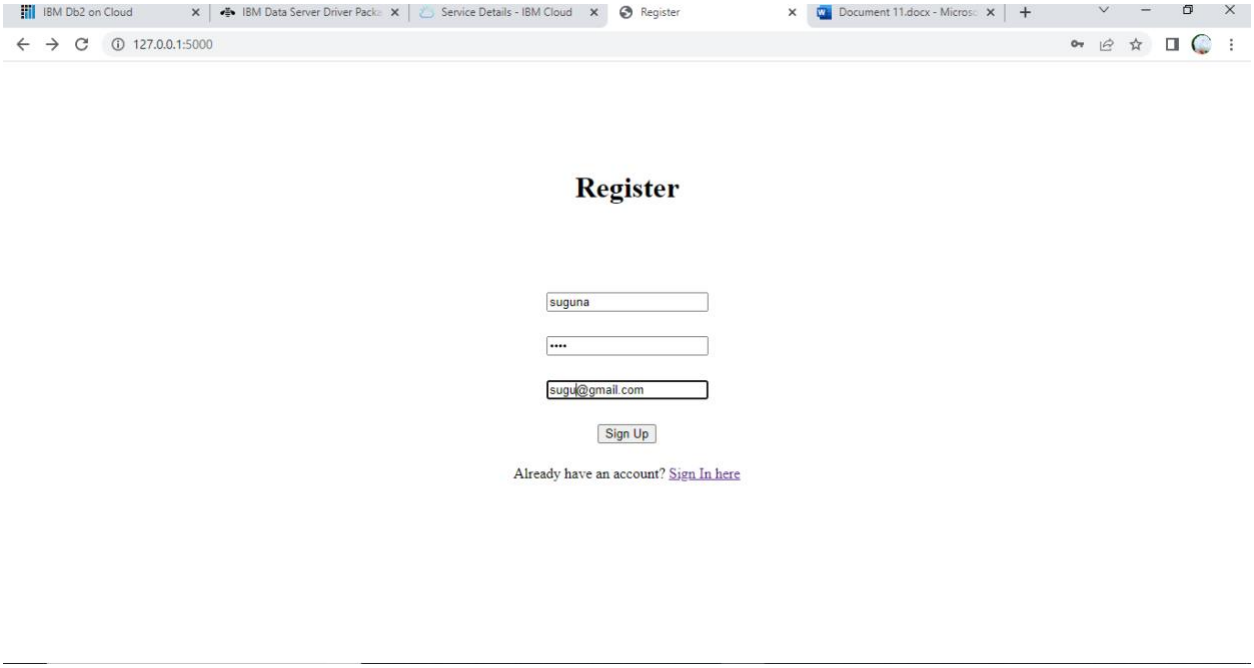
```
                <input type="submit" class="btn" value="Sign In"></br></br>
            </form>
          </h2>
          <p class="bottom">Don't have an account?  <a class="bottom"
href="{{url_for('register')}}"> Sign Up here</a></p>
        </div>
      </div>
   </body>
</html>
```

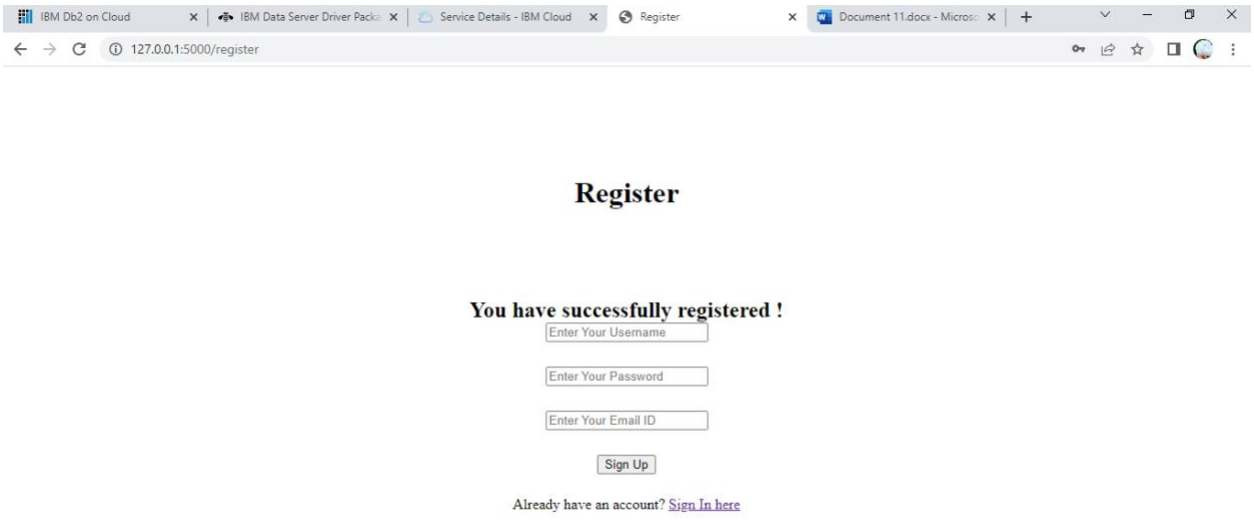
style.css

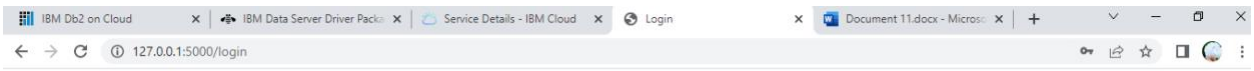
```
 .header{
            padding: 5px 120px;
            width: 150px;
            height: 70px;
            background-color: #236B8E;
          }

          .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;
    text-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


IBM Db2 on Cloud
IBM Data Server Driver Packa
Service Details - IBM Cloud
Register
Document 11.docx - Micros
127.0.0.1:5000
Register
suguna
sugu@gmail.com
Sign Up
Already have an account? Sign In here


IBM Db2 on Cloud
IBM Data Server Driver Packa
Service Details - IBM Cloud
Register
Document 11.docx - Micros
127.0.0.1:5000/register
Register
You have successfully registered !
Enter Your Username
Enter Your Password
Enter Your Email ID
Sign Up
Already have an account? Sign In here

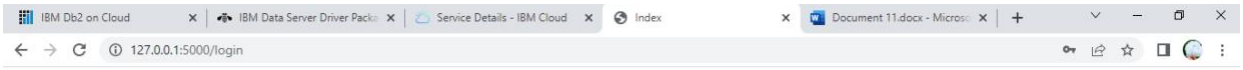


Login

suguna

Sign In

Don't have an account? Sign Up here



Index

Hi suguna !!

Welcome to the index page...

Logout