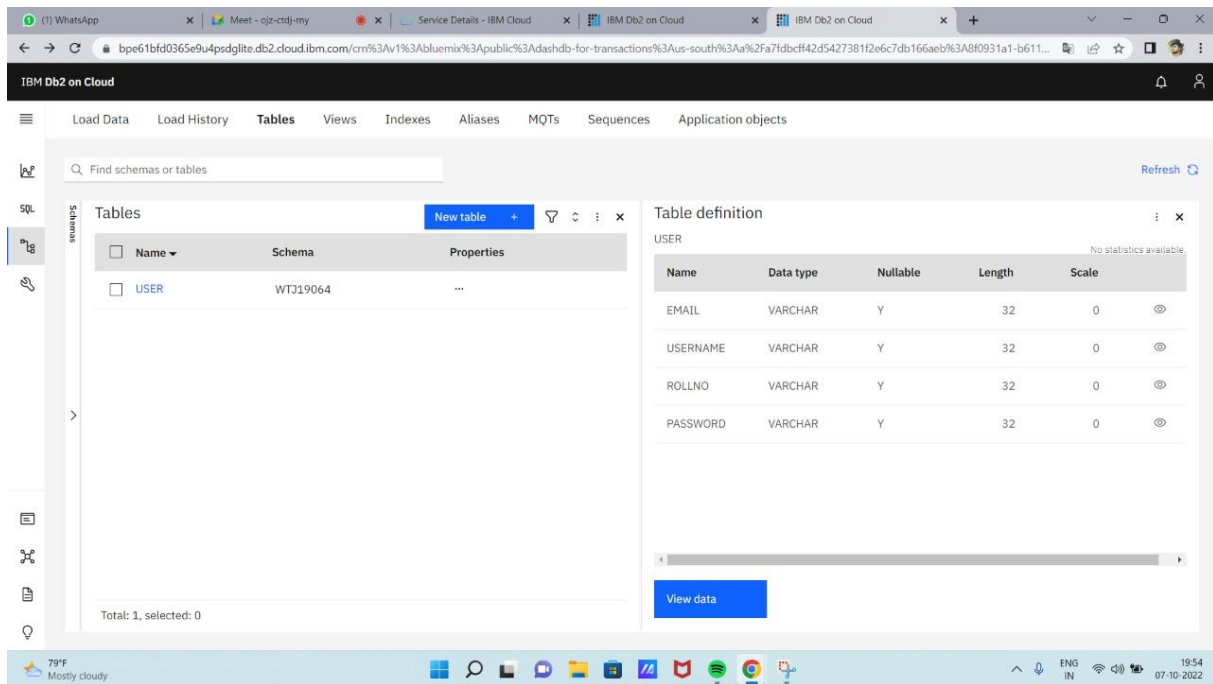


ASSIGNMENT – 3

TEAM ID : PNT2022TMID19523

PROJECT NAME : NEWS TRACKER APPLICATION

1. CREATE USER TABLE WITH EMAIL, USERNAME, ROLL NUMBER, PASSWORD



INSERT QUERY :

```
INSERT INTO USER(email,username,rollno,password)
VALUES('kavinag197@gmail.com','Kavin_51','19CS051',1234),
('pradeep@gmail.com','pradeep84','19CS084',3434),
('dhyanaaparna14@gmail.com','Aparna22','19CS022',12356),
('pandidurai@gmail.com','Pandi79','19CS079',9775);
```

IBM Db2 on Cloud

Data objects My script

Filter objects

WTJ19064

*Untitled - 1

Beta Classic

Syntax assistant Run all

```
1 INSERT INTO USER(email,username,rollno,password)
2 VALUES('kavinag197@gmail.com','Kavin_51','19CS051',1234),
3 ('pradeep@gmail.com','pradeep84','19CS084',3434),
4 ('dhyanaaparna14@gmail.com','Aparna22','19CS022',12356),
5 ('pandidurai@gmail.com','Pandi79','19CS079',9775);
```

History Results

Find history

Script	Date	Status	Runtime
Untitled - 1	Oct 7, 2022 7:51:24 PM	1	0.008 s
INSERT INTO USER(email,username,rollno,password) VALUES('kavinag197@gmail.co...			0.008 s

AFTER INSERTING THE VALUES INTO THE TABLE:

WTJ19064.USER

Back

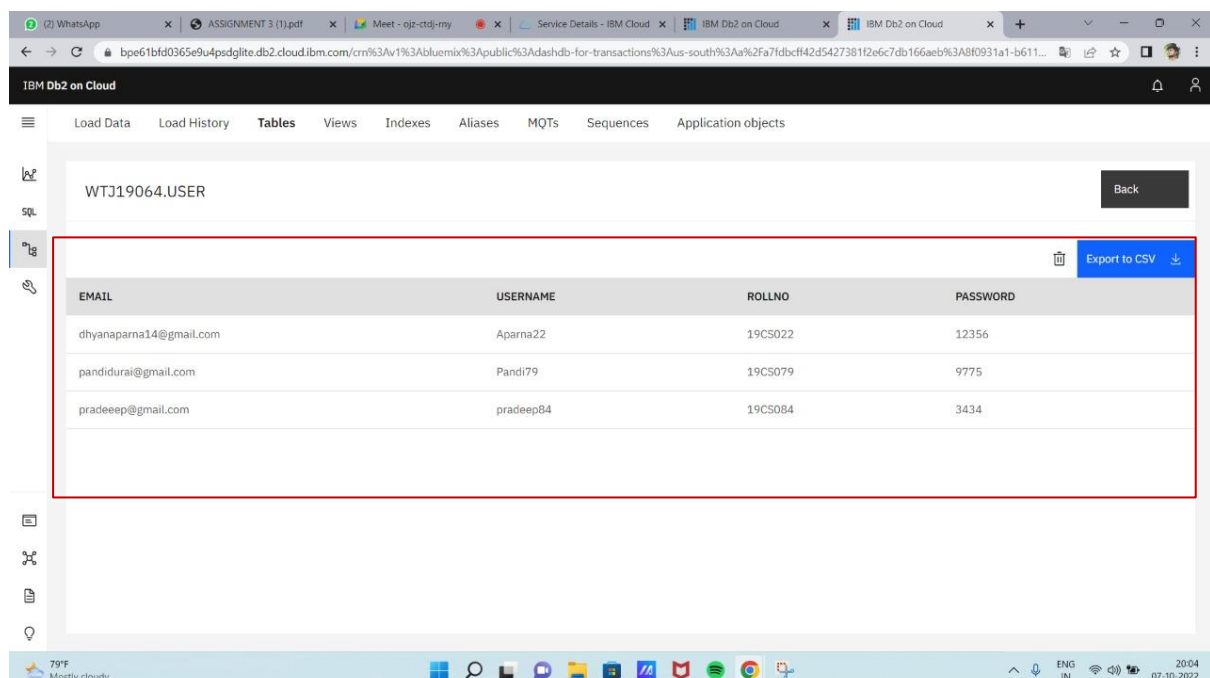
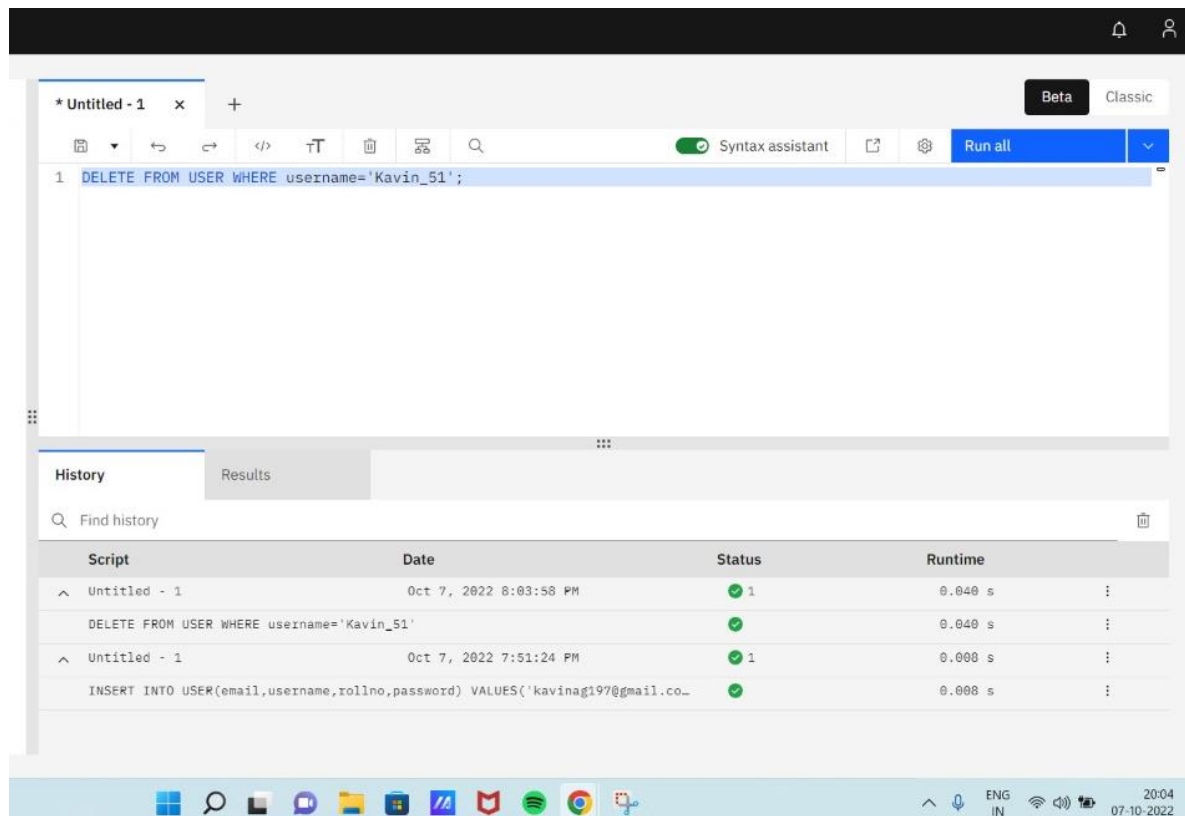
Export to CSV

EMAIL	USERNAME	ROLLNO	PASSWORD
dhyanaaparna14@gmail.com	Aparna22	19CS022	12356
kavinag197@gmail.com	Kavin_51	19CS051	1234
pandidurai@gmail.com	Pandi79	19CS079	9775
pradeep@gmail.com	pradeep84	19CS084	3434

2. PERFORM UPDATE AND DELETE QUERIES WITH USER TABLE :

DELETING QUERY :

DELETE FROM USER WHERE username='Kavin_51';



UPDATING QUERY :

INSERT INTO USER(email,username,rollno,password)

VALUES('kavinag197@gmail.com','Kavin_51','19CS051',1234);

UPDATE user SET email='pradeep@gmail.com',password='8484'
WHERE

rollno='19CS084';

The screenshot shows the IBM Db2 on Cloud console. On the left, the 'Data objects' panel shows a table named 'WTJ19064'. The main area is the 'My script' editor, which contains the following SQL script:

```
1 INSERT INTO USER(email,username,rollno,password)
2 VALUES('kavinag197@gmail.com','Kavin_51','19CS051',1234);
3 UPDATE user SET email='pradeep@gmail.com',password='8484' WHERE
4 rollno='19CS084';
```

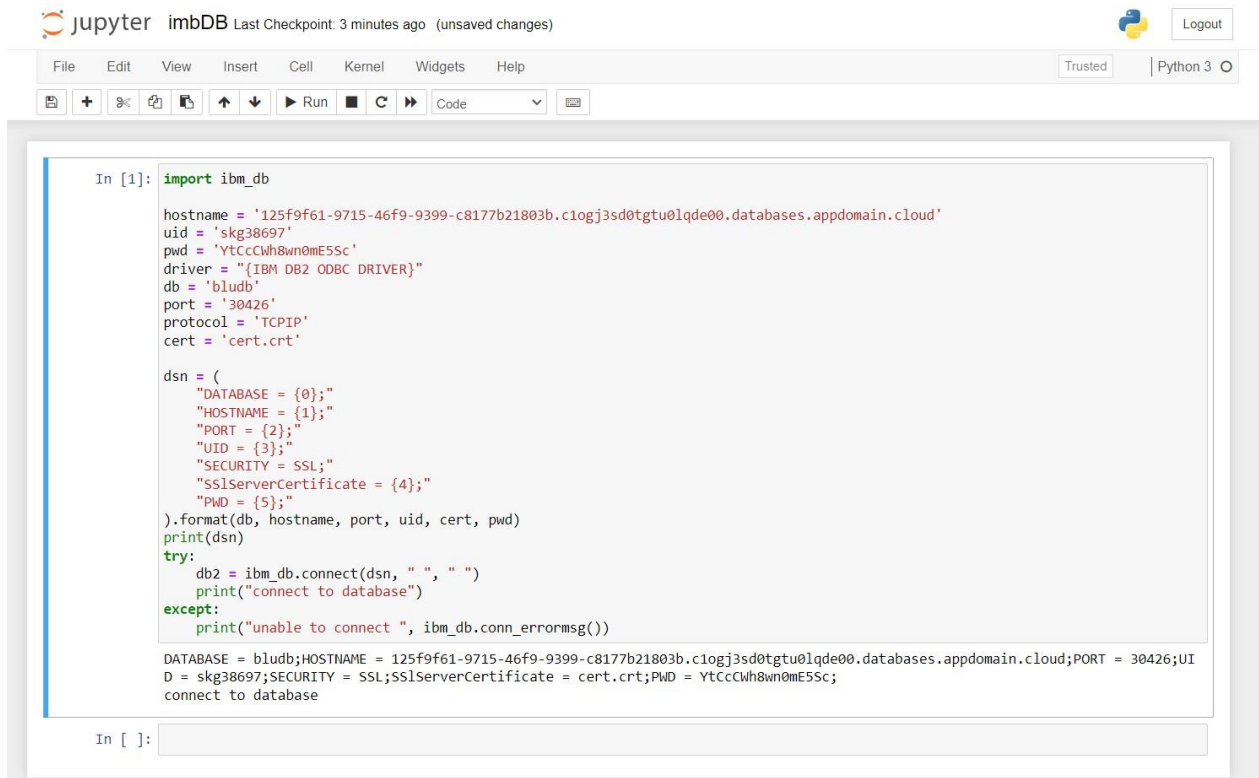
Below the script editor, the 'History' tab is active, displaying a table of executed scripts:

Script	Date	Status	Runtime
Untitled - 1	Oct 7, 2022 8:08:37 PM	✓ 2	0.041 s
INSERT INTO USER(email,username,rollno,password) VALUES('kavinag197@gmail.c...		✓	0.020 s
UPDATE user SET email='pradeep@gmail.com',password='8484' WHERE rollno='19...		✓	0.021 s
Untitled - 1	Oct 7, 2022 8:03:58 PM	✓ 1	0.040 s
DELETE FROM USER WHERE username='Kavin_51'		✓	0.040 s

The screenshot shows the IBM Db2 on Cloud console displaying the 'WTJ19064.USER' table. The table has four columns: EMAIL, USERNAME, ROLLNO, and PASSWORD. The data is as follows:

EMAIL	USERNAME	ROLLNO	PASSWORD
dhyanaaparna14@gmail.com	Aparna22	19CS022	12356
kavinag197@gmail.com	Kavin_51	19CS051	1234
pandidurai@gmail.com	Pandi79	19CS079	9775
pradeep@gmail.com	pradeep84	19CS084	8484

3. CONNECT PYTHON TO db2:



The image shows a Jupyter Notebook interface with a code cell containing Python code to connect to an IBM DB2 database. The code defines variables for hostname, uid, pwd, driver, db, port, protocol, and cert, then constructs a DSN and attempts to connect using the ibm_db module. The output shows the DSN details and a successful connection message.

```
In [1]: import ibm_db

hostname = '125f9f61-9715-46f9-9399-c8177b21803b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud'
uid = 'skg38697'
pwd = 'YtCcCWh8wn0mE5Sc'
driver = "{IBM DB2 ODBC DRIVER}"
db = 'bludb'
port = '30426'
protocol = 'TCP/IP'
cert = 'cert.crt'

dsn = (
    "DATABASE = {0};"
    "HOSTNAME = {1};"
    "PORT = {2};"
    "UID = {3};"
    "SECURITY = SSL;"
    "SSLServerCertificate = {4};"
    "PWD = {5};"
).format(db, hostname, port, uid, cert, pwd)
print(dsn)
try:
    db2 = ibm_db.connect(dsn, " ", " ")
    print("connect to database")
except:
    print("unable to connect ", ibm_db.conn_errormsg())

DATABASE = bludb;HOSTNAME = 125f9f61-9715-46f9-9399-c8177b21803b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT = 30426;UID = skg38697;SECURITY = SSL;SSLServerCertificate = cert.crt;PWD = YtCcCWh8wn0mE5Sc;
connect to database
```

In []:

CODE :

```
import ibm_db
```

```
hostname = '9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud'
uid = 'qfk33398'
```

```
pwd = 'jnfFMaLIImETZcout'
```

```
driver = "{IBM DB2 ODBC DRIVER}"
```

```
db = 'bludb'
```

```
port = '32459'
```

```
protocol = 'TCP/IP'
```

```
cert = 'CRT1.crt'
```

```
dsn = (  
    "DATABASE = {0};"  
    "HOSTNAME = {1};"  
    "PORT = {2};"  
    "UID = {3};"  
    "SECURITY = SSL;"  
    "SSIServerCertificate = {4};"  
    "PWD = {5};"  
)  
.format(db, hostname, port, uid, cert, pwd)  
print(dsn)  
  
try:  
    db2 = ibm_db.connect(dsn, " ", " ")  
    print("connect to database")  
  
except:  
    print("unable to connect ", ibm_db.conn_errormsg())
```

4.about.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>About Page</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>

<body>

  <nav class="navbar navbar-expand-lg bg-light" style="background-color:
#b5dbf7;">
    <!-- Navbar content -->

    <div class="container-fluid">
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-link " href="home.html">Home</a>
          <a class="nav-link active" aria-current="page"
href="#">About</a>
          <a class="nav-link" href="signin.html">Sign In</a>
          <a class="nav-link" href="signup.html">Sign up</a>
        </div>
      </div>
    </div>

  </nav>
  <br><br>
  <footer>
    International Business Machines Corporation is an American
    multinational technology corporation headquartered in Armonk, New York, with
    operations in over 171 countries.
  </footer>

</body>

</html>
```

Home.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>Home Page</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>

<body>

  <nav class="navbar navbar-expand-lg bg-light" style="background-color:
#e3f2fd;">
    <!-- Navbar content -->

    <div class="container-fluid">
      <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" href="about.html">About</a>
          <a class="nav-link" href="signin.html">SignIn</a>
          <a class="nav-link" href="signup.html">SignUp</a>
        </div>
      </div>
    </div>
  </nav>
  <br><br>
  <div>
    <h4>
      <b>Welcome to IBM!!!</B>
    </h4>
  </div>

</body>

</html>
```


Signin.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>SignIn</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>

<body>

  <nav class="navbar navbar-expand-lg bg-light" style="background-color:
#e3f2fd;">
    <!-- Navbar content -->

    <div class="container-fluid">
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-link" href="home.html">Home</a>
          <a class="nav-link" href="about.html">About</a>
          <a class="nav-link active" aria-current="page"
href="#">SignIn</a>
          <a class="nav-link" href="signup.html">SignUp</a>
        </div>
      </div>
    </div>

  </nav>
  <div class="text-center my-5"
    style="background-image:
url('https://png.pngtree.com/thumb_back/fh260/background/20200714/pngtree-
modern-double-color-futuristic-neon-background-image_351866.jpg');
    background-repeat: no-repeat;
    background-size: cover;">

    <section class="h-100">
      <div class="container h-100">
        <div class="row justify-content-sm-center h-100">
          <div class="col-xxl-4 col-xl-5 col-lg-5 col-md-7 col-sm-
9">

            <div class="text-center my-5"></div>
            <div class="card shadow-lg">
              <div class="card-body p-5">
```

```

<h1 class="fs-4 card-title fw-bold mb-
4">Login</h1>
<form method="POST" class="needs-validation"
novalidate="" autocomplete="off">
    <div class="mb-3">
        <label class="mb-2 text-muted"
for="email">E-Mail Address</label>
        <input id="email" type="email"
class="form-control" name="email" value=""
        required autofocus>
        <div class="invalid-feedback">
            Email is invalid
        </div>
    </div>

    <div class="mb-3">
        <div class="mb-2 w-100">
            <label class="text-muted"
for="password">Password</label>
            <a href="forgot.html"
class="float-end">
                Forgot Password?
            </a>
        </div>
        <input id="password" type="password"
class="form-control" name="password"
        required>
        <div class="invalid-feedback">
            Password is required
        </div>
    </div>

    <div class="d-flex align-items-center">
        <div class="form-check">
            <input type="checkbox"
name="remember" id="remember"
            class="form-check-input">
            <label for="remember" class="form-
check-label">Remember Me</label>
        </div>
        <button type="submit" class="btn btn-
primary ms-auto">
            Login
        </button>
    </div>
</form>
</div>
<div class="card-footer py-3 border-0">

```

```

                                <div class="text-center">
                                    Don't have an account? <a
href="signup.html" class="text-dark">Create
                                        One</a>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </section>
    </div>

</body>

</html>
```

Signup.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>SignUp</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>

<body>

  <nav class="navbar navbar-expand-lg bg-light" style="background-color:
#e3f2fd;">
    <!-- Navbar content -->

    <div class="container-fluid">
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-link" href="home.html">Home</a>
          <a class="nav-link" href="about.html">About</a>
          <a class="nav-link" href="signin.html">SignIn</a>
          <a class="nav-link active" aria-current="page"
href="#">SignUp</a>
        </div>
      </div>
    </div>
  </nav>
  <div class="text-center my-5"
style="background-image:
url('https://png.pngtree.com/thumb_back/fh260/background/20200714/pngtree-
modern-double-color-futuristic-neon-background-image_351866.jpg');
background-repeat: no-repeat;
background-size: cover;">
    <section class="h-100">
      <div class="container h-100">
        <div class="row justify-content-sm-center h-100">
          <div class="col-xxl-4 col-xl-5 col-lg-5 col-md-7 col-sm-
9">

            <div class="text-center my-5"></div>
            <div class="card shadow-lg">
              <div class="card-body p-5">
                <h1 class="fs-4 card-title fw-bold mb-
4">Register</h1>

                <form method="POST" class="needs-validation"
novalidate="" autocomplete="off">
```

```

        <div class="mb-3">
            <label class="mb-2 text-muted"
for="name">Name</label>
            <input id="name" type="text"
class="form-control" name="name" value="" required
                autofocus>
            <div class="invalid-feedback">
                Name is required
            </div>
        </div>

        <div class="mb-3">
            <label class="mb-2 text-muted"
for="email">E-Mail Address</label>
            <input id="email" type="email"
class="form-control" name="email" value=""
                required>
            <div class="invalid-feedback">
                Email is invalid
            </div>
        </div>

        <div class="mb-3">
            <label class="mb-2 text-muted"
for="password">Password</label>
            <input id="password" type="password"
class="form-control" name="password"
                required>
            <div class="invalid-feedback">
                Password is required
            </div>
        </div>

        <p class="form-text text-muted mb-3">
            By registering you agree with our
terms and condition.
        </p>

        <div class="align-items-center d-flex">
            <button type="submit" class="btn btn-
primary ms-auto">
                Register
            </button>
        </div>
    </form>
</div>
<div class="card-footer py-3 border-0">
    <div class="text-center">

```

```

        Already have an account?
<a href="/signin.html" class="text-dark">Login</a>
    </div>
</div>
</div>
</div>
</div>
</section>
</div>

</body>

</html>
```

app.py

```
from flask import Flask,

render_templateapp = Flask(__name__)

@app.route("/")
@app.route("/home")
def home():
    return render_template("home.html")

@app.route("/about")
def about():
    return render_template("about.html")

@app.route("/signin")
def signin():
    return render_template("signin.html")

@app.route("/signup")
def signup():
    return render_template("signup.html")
```