

### ASSIGNMENT 3

<b>TEAM ID</b>	PNT2022TMID27420
<b>PROJECT NAME</b>	Smart Fashion Recommender Application
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<b>REG NO</b>	311019205025

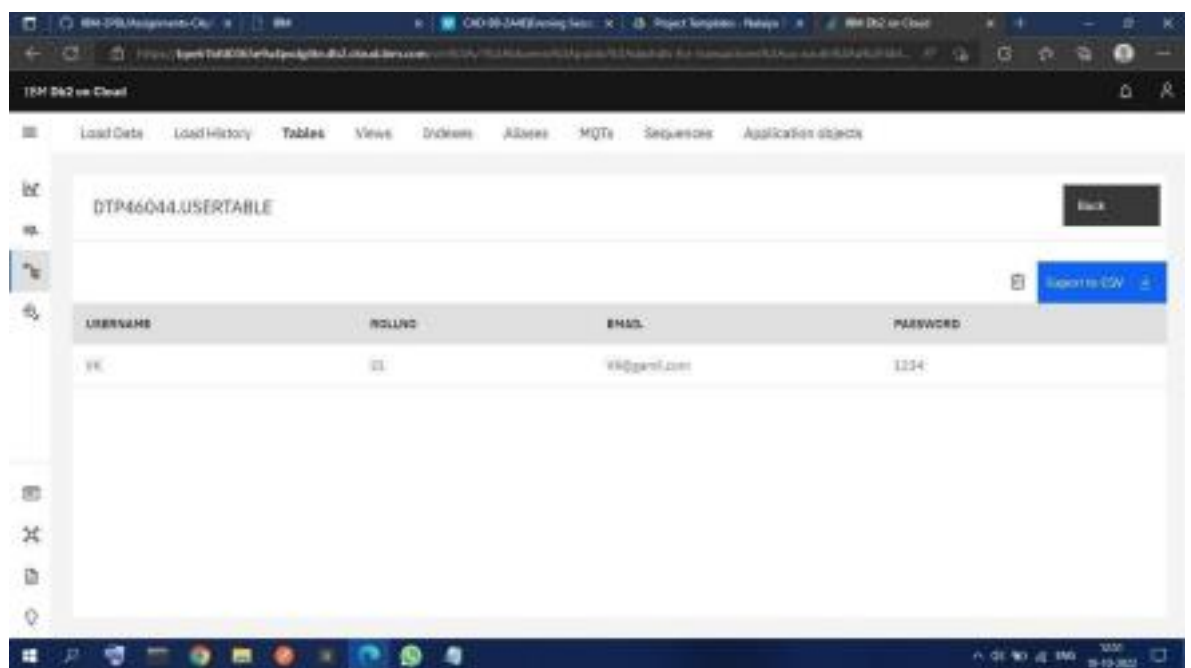
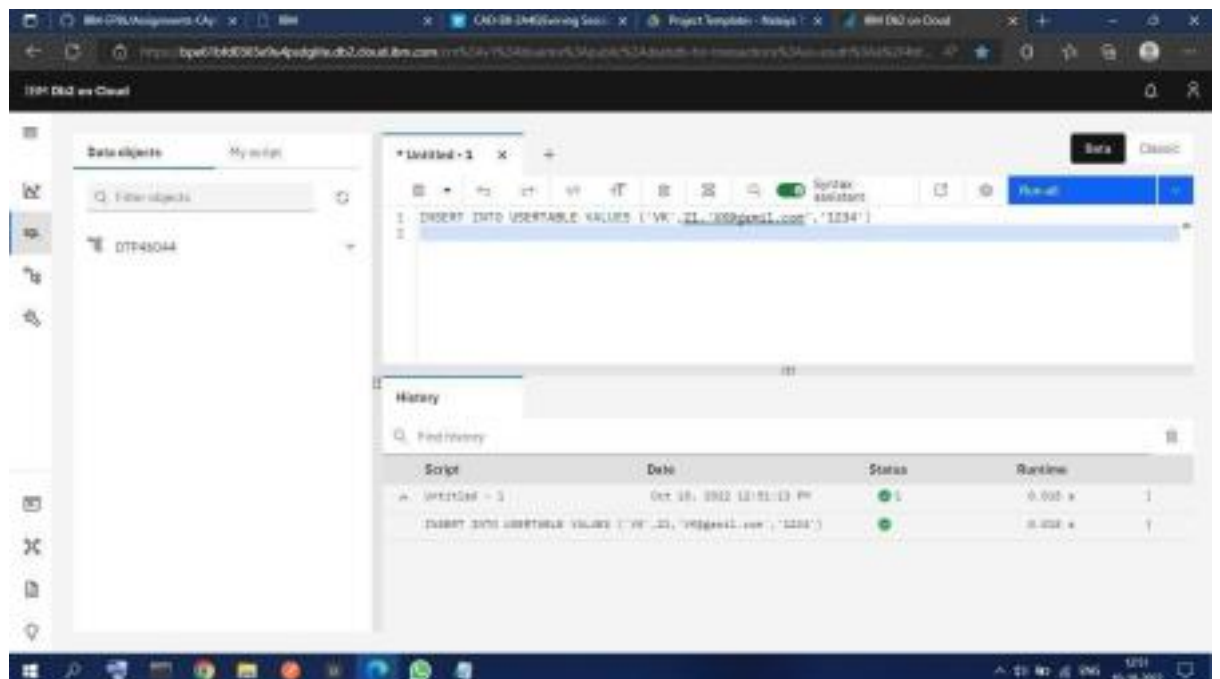
#### Questions:

1. Create Usertable with user with email, username, roll number, password.

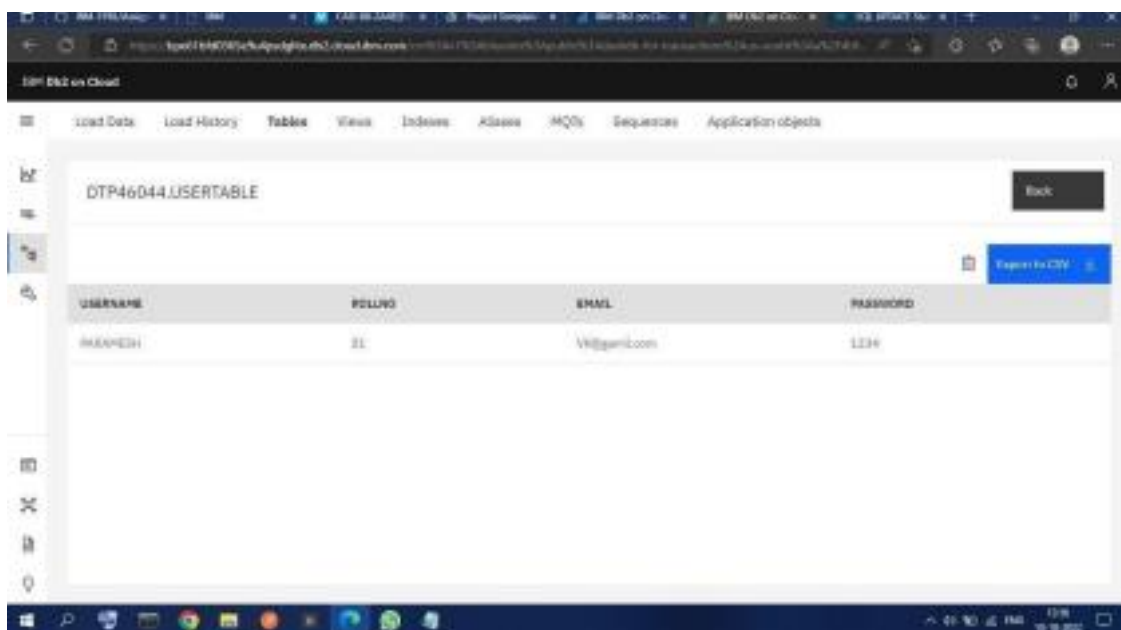
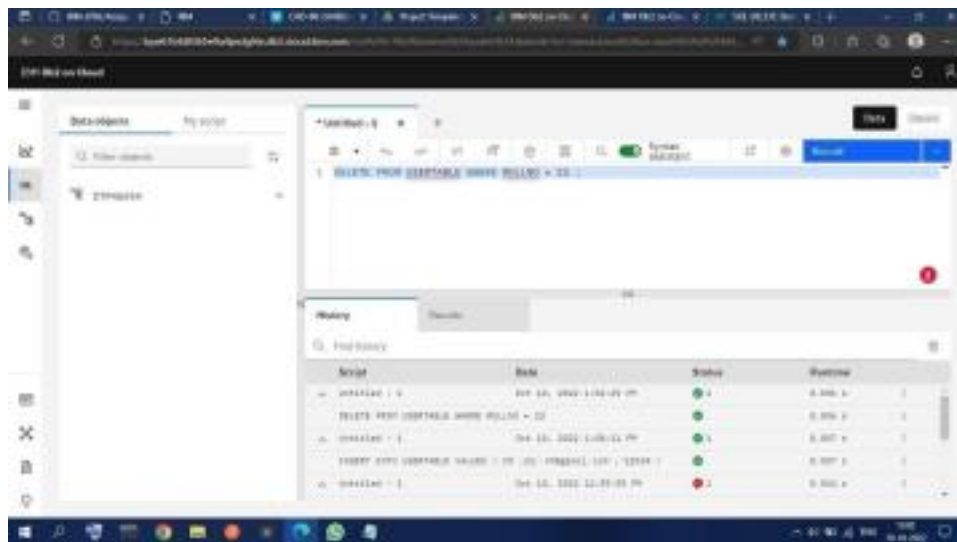
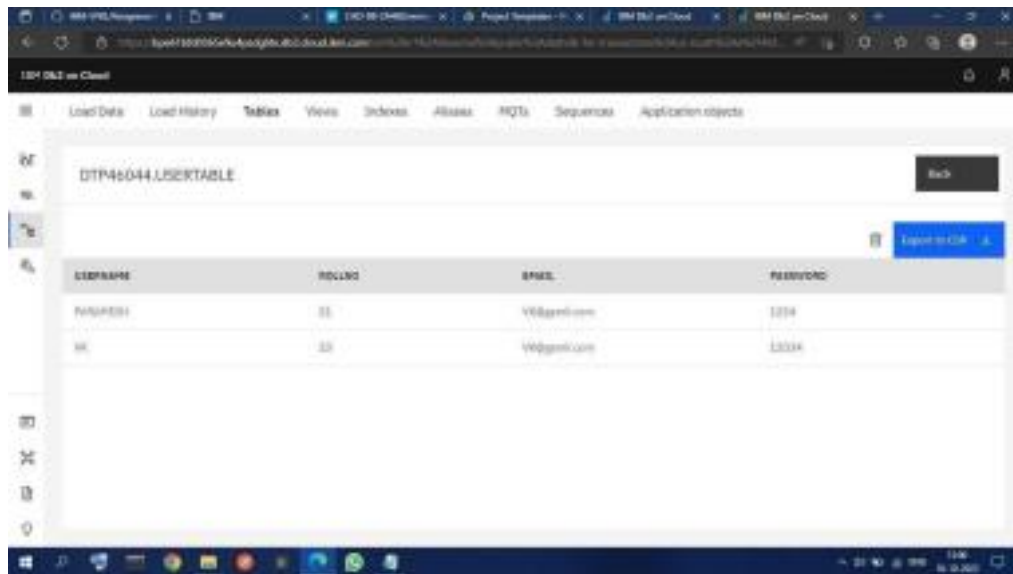
The top screenshot shows the 'Table definition' window for a table named 'USERTABLE' in the 'DTP46Q44' schema. The table has four columns: 'USERNAME' (CHAR, 5, 0), 'ROLLNUMBER' (INTEGER, 0, 0), 'EMAIL' (CHAR, 5, 0), and 'PASSWORD' (VARCHAR, 32, 0). The bottom screenshot shows the 'Tables' view for the 'DTP46Q44' schema, displaying the 'USERTABLE' table with its columns: 'USERNAME', 'ROLLNUMBER', 'EMAIL', and 'PASSWORD'. Below the table list, there is a message 'There is no data here yet'.

2. Perform UPDATE,DELETE Queries with user table.

## UPDATE TABLE:-



## DELETE TABLE:-



3. Connect python code to db2.

**NOTE:- Question 4 contains Question 3 answer**

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 database and navigate to login page authenticate user username and password. If the user is valid show the welcome page

## Answers

### 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=fbdb88901-ebdb-4a4f-a32e-9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;USERS=E=dtP46044;PASSWORD=95soX0sZGhb4ToUj;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCertGlobalRootCA.crt;", "", "")

@app.route("/", 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 users 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'^[a-zA-Z0-9]+@[a-zA-Z0-9]+\.[a-zA-Z]+$', email):
            msg = 'Invalid email address !'
        elif not re.match(r'^[A-Za-z0-9]+$', username):
            msg = 'name must contain only characters and numbers'
        else:
            insert_sql = "INSERT INTO users VALUES (?, ?, ?)"
            prep_stmt = ibm_db.prepare(conn, insert_sql)
            ibm_db.bind_param(prepare_stmt, 1, username)
            ibm_db.bind_param(prepare_stmt, 2, email)
```

```

        ibm_db.bind_param(prepare_stmt, 3, password)
        ibm_db.execute(prepare_stmt)
        msg = 'You have successfully registered !'
    elif request.method == 'POST':
        msg = 'Please fill out the form !'
    return render_template('register.html', msg=msg)

@app.route('/login', methods=['GET', 'POST'])
def login():
    global userid

    msg = ''

    if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']
        sql = "SELECT * FROM users WHERE username =? AND password=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, username)
        ibm_db.bind_param(stmt, 2, password)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            session['loggedin'] = True
            session['id'] = account['USERNAME']
            userid = account['USERNAME']
            session['username'] = account['USERNAME']
            msg = 'Logged in successfully !'
        else:
            msg = 'Incorrect username / password !'
        return render_template('login.html', msg=msg)

if __name__ == '__main__':
    app.run(host='0.0.0.0', port=8080, debug=True)

```

## Register.html

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

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Smart Fashion register</title>

  <!-- bootstrap css cdn -->
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
"
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
  <!-- css stylesheet -->
  <link rel="stylesheet" href="/static/css/style.css">
  <!-- font styles cdn -->
  <link rel="preconnect" href="https://fonts.gstatic.com">
  <link
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
  <link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>
  <!-- bootstrap navbar -->
  <!-- navbar ends -->
  <!-- login form -->
  <div class="login text-center mt-5">
```



```

        <form action="/" method="post">
<h2 class="form-text-h2"> Register Form </h2>
<div class="msg">{{ msg }}</div>
        <input type="text" class="form-control"
name="username" placeholder="Enter Your Username" id="username"
        required>
        <input type="email" class="form-control"
name="email" placeholder="Enter Your Email ID" id="email"
required>
        <input type="password" class="form-control"
name="password" placeholder="Enter Your Password" id="password"
        required>
        <button type="submit" id="button" class="btn
btn-primary"> Register </button>
<div class="note mt-3 text-center">
        <!-- Register form -->
<p> already have an account ? please login <a
href="/login">login! </a> </p>

</div>
</form>

</div>

</body>

```

```
</html>
```

Login.html

```

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

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Smart Fashion Login</title>
    <!-- favicon -->
    <!-- <link rel="shortcut icon"
href="/assets/img/favicon.ico" type="image/x-icon"> -->
    <!-- <link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">
-->
    <link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-
32x32.png">
    <!-- bootstrap css cdn -->
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
    integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z
" crossorigin="anonymous">
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font
awesome/4.7.0/css/font-awesome.css">

```

```

<!-- css stylesheet -->
<link rel="stylesheet" href="/static/css/style2.css">
<!-- font styles cdn -->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap
" rel="stylesheet">
<link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap
" rel="stylesheet">
</head>

<body>

    <div class="login text-center mt-5">

        <form action="/login" method="post">
            <h2 class="form-text-h2"> Login Form </h2>
            <div class="msg">{{ msg }}</div>
            <div class="form-group mb-3">
                <label class="label" for="username">Username</label>
                <input type="text" class="form-control"
placeholder="Username" name="username" required>
            </div>
            <div class="form-group mb-3">
                <label class="label" for="password">Password</label>
                <input type="password" class="form-control"
placeholder="Password" name="password" required>
            </div>

            <button type="submit" id="button"

        </button>

    </div>

    </body>

</html>
class="btn btn-primary"> Login

href="/">register! </a> </p> </div>
</form>
</div>

Register form -->
<p> Don't have an account yet? Click here
to <a

```

#### Style.css

```

* {
    margin: 0;
    padding: 0;
}

body {
    background-color: aqua;
    !important; display: flex;
    flex-direction: column;
    align-items: center;
    justify-content:

```



```

        center;
    }

    form {
        display: flex;
        flex-direction: column;
        align-items: center;
        justify-content:
            center;
        background-color:
            white; width: 40%;
        height: 450px;
        border-radius: 50px;
        margin: 100px;
        gap: 25px;

    }

    h2 {
        font-size: large;
        font-weight: bolder;
    }

    input {
        width: 80% !important;
    }

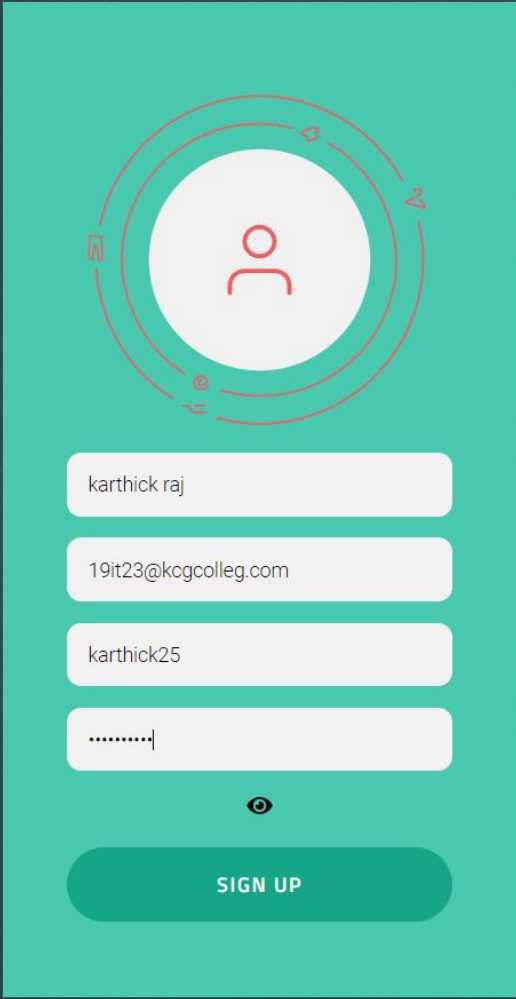
    div {
        display: flex;
        align-items: center;
        justify-content:
            center; flex-direction:
            column; width: 90%;
    }

    .form-text-vk {
        font-size: small;
        padding-bottom: 10px;
    }

    .form-text-h2 {
        font-size: x-large;
        padding-top:
            10px;
    }

```

**Output:-**  
**registration page:-**



The image shows a registration form on a dark blue background. The form is a teal-colored card with a white border. At the top of the card is a circular profile picture placeholder with a red outline and a red person icon. Below the placeholder are four white input fields with rounded corners. The first field contains the text 'karthick raj'. The second field contains the email '19it23@kcgcolleg.com'. The third field contains the username 'karthick25'. The fourth field contains a series of dots, indicating a password. Below the password field is a small eye icon. At the bottom of the card is a teal button with the text 'SIGN UP' in white capital letters.

karthick raj

19it23@kcgcolleg.com

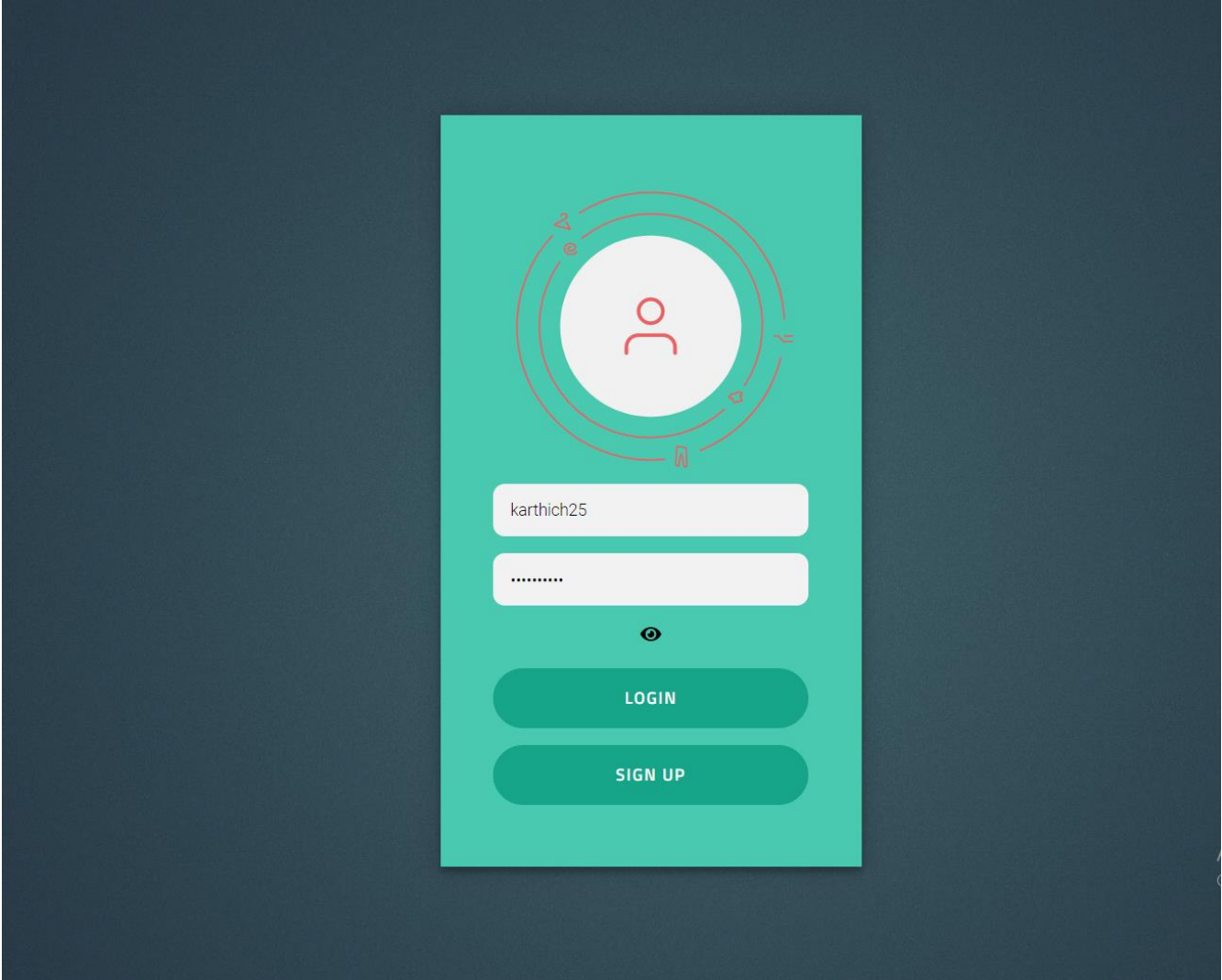
karthick25

.....|

👁

**SIGN UP**

## Login Page:-



A login page with a dark blue background. In the center is a teal square containing a white circle with a red person icon. Above the circle is a circular arrow graphic with icons for a key, a lock, a shield, and a document. Below the circle are two white input fields: the first contains 'karthich25' and the second contains '.....'. Below the password field is an eye icon. At the bottom of the teal square are two green buttons: 'LOGIN' and 'SIGN UP'.

## Data Base Table :-

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

KFX23168.DATA Back

Export to CSV

USERNAME	PASSWORD	MAILID
KARTHICK RAJ	12345678	19IT23@kcgcollege.com

Activate Windows  
Go to Settings to activate Windows.

Browser tabs: (1) WhatsApp, assignment 3 - 19it05@kcgcolle..., Service Details - IBM Cloud, IBM Db2 on Cloud

Address bar: bs2ipcul0apon0jufi80lite.db2.cloud.ibm.com/crm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2Fb74d6943f535450f841cd460f1724280%3A039bf5e7-8d9c-49a5-b9a...

IBM Db2 on Cloud

Navigation: Load Data, Load History, **Tables**, Views, Indexes, Aliases, MQTs, Sequences, Application objects

Table: KFX23168.ONE

Column: COL1

Message: There is no data here yet

Windows Taskbar: Assignment3-kar....docx, Assignment3-Arivu.docx, data.csv, 11:19 AM 10/22/2022