

Assignment 2

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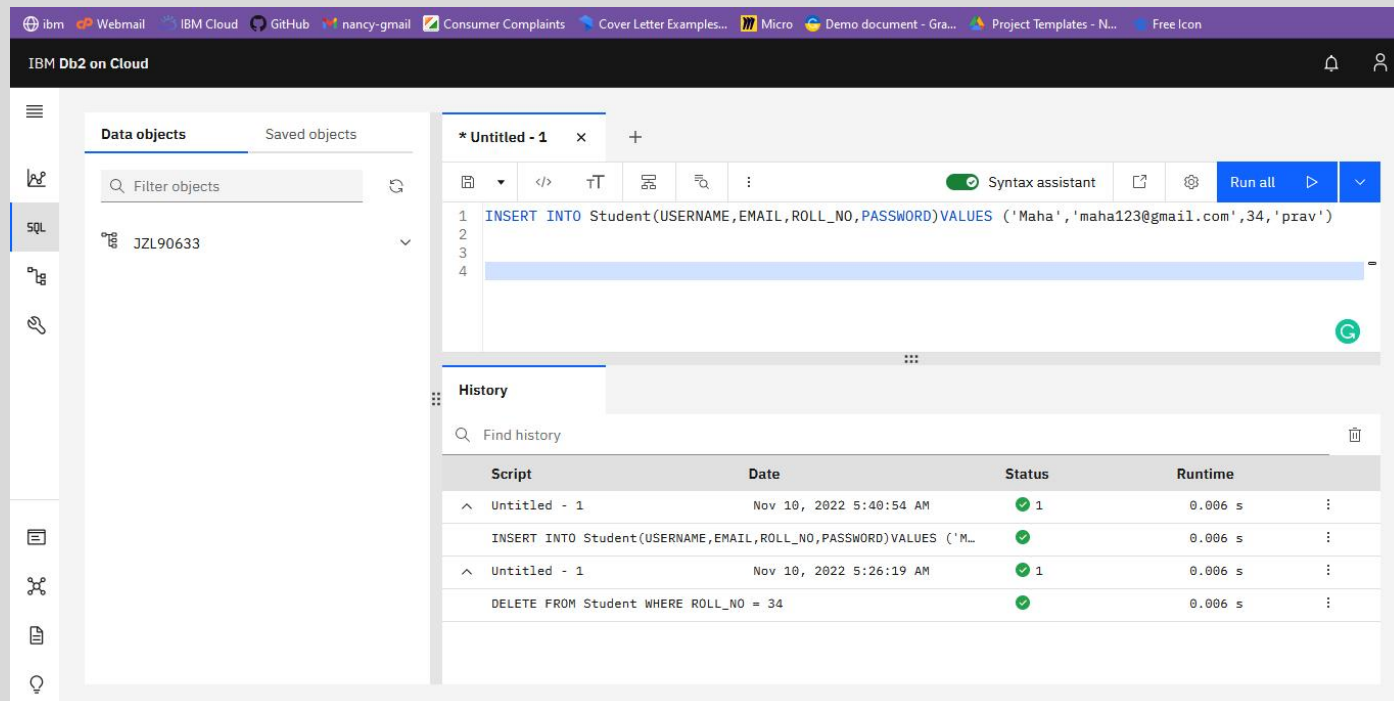
1) Create User table with email, username, roll number, password:

The screenshot displays the IBM Db2 on Cloud web interface. The top navigation bar includes links for IBM, Webmail, IBM Cloud, GitHub, nancy-gmail, Consumer Complaints, Cover Letter Examples..., Micro, Demo document - Gra..., and Project Templates - N... The main header shows 'IBM Db2 on Cloud' with a notification bell and user profile icon. Below the header, a menu bar contains 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is active, showing a search bar 'Find schemas or tables' and a 'Refresh' button. The 'Tables' panel lists a single table 'STUDENT' under schema 'JZL90633'. The 'Table definition' panel shows the 'STUDENT' table structure with columns: USERNAME (VARCHAR, 32, nullable), EMAIL (VARCHAR, 32, nullable), ROLL_NO (INTEGER, nullable), and PASSWORD (VARCHAR, 32, nullable). A 'View data' button is present at the bottom of the table definition panel.

Name	Data type	Nullable	Length	Scale
USERNAME	VARCHAR	Y	32	0
EMAIL	VARCHAR	Y	32	0
ROLL_NO	INTEGER	Y		0
PASSWORD	VARCHAR	Y	32	0

2)Perform UPDATE, DELETE Queries with user table:

i) INSERT



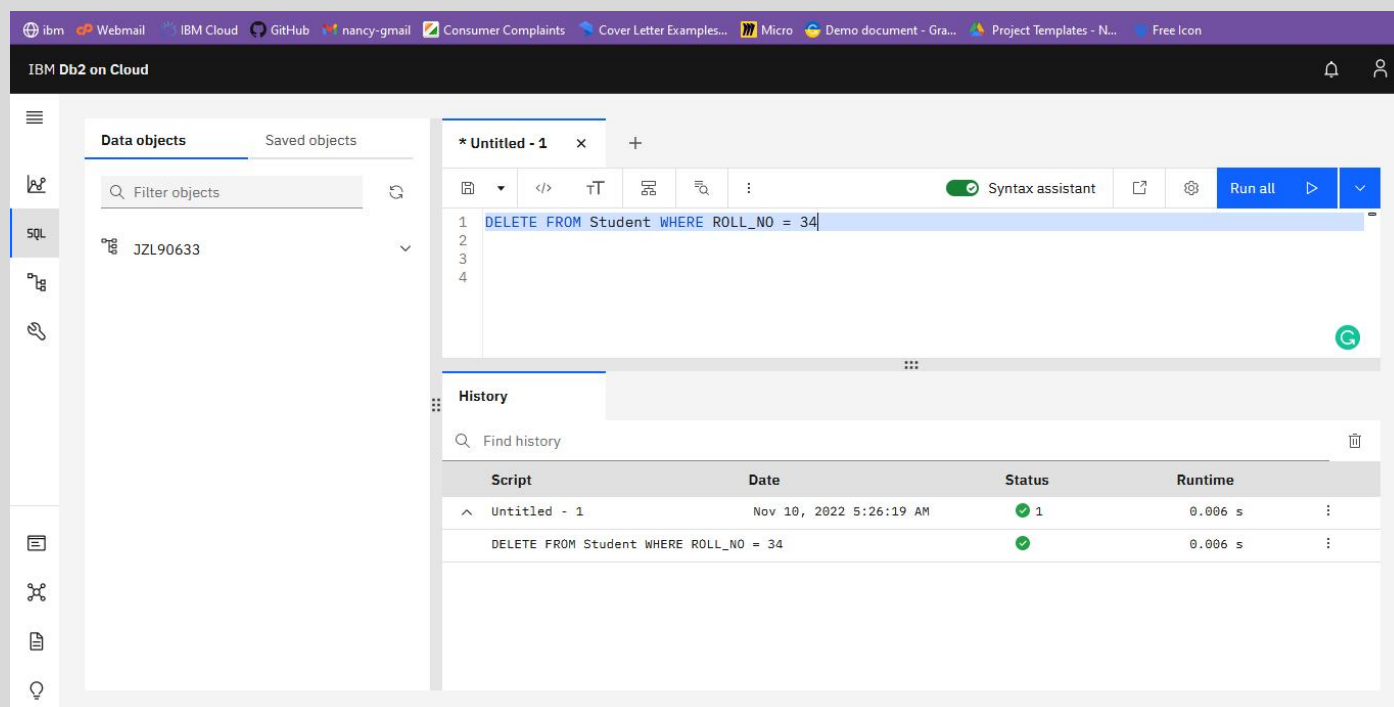
The screenshot shows the IBM Db2 on Cloud web interface. On the left, the 'Data objects' panel lists a table named 'JZL90633'. The main editor area, titled '*Untitled - 1', contains the following SQL query:

```
INSERT INTO Student (USERNAME, EMAIL, ROLL_NO, PASSWORD) VALUES ('Maha', 'maha123@gmail.com', 34, 'prav')
```

Below the editor, the 'History' panel displays a table of executed queries:

Script	Date	Status	Runtime
Untitled - 1	Nov 10, 2022 5:40:54 AM	✓ 1	0.006 s
INSERT INTO Student (USERNAME, EMAIL, ROLL_NO, PASSWORD) VALUES ('M...		✓	0.006 s
Untitled - 1	Nov 10, 2022 5:26:19 AM	✓ 1	0.006 s
DELETE FROM Student WHERE ROLL_NO = 34		✓	0.006 s

ii)DELETE



The screenshot shows the IBM Db2 on Cloud web interface. The main editor area, titled '*Untitled - 1', contains the following SQL query:

```
DELETE FROM Student WHERE ROLL_NO = 34
```

Below the editor, the 'History' panel displays a table of executed queries:

Script	Date	Status	Runtime
Untitled - 1	Nov 10, 2022 5:26:19 AM	✓ 1	0.006 s
DELETE FROM Student WHERE ROLL_NO = 34		✓	0.006 s

iii)UPDATE

IBM Db2 on Cloud

SQL

```

1 UPDATE Student SET USERNAME='Leni',EMAIL='lenitha123@gmail.com',ROLL_NO=35,PASSWORD='jsfhkwjhegh' WHERE ROLL_NO=46
2
3
4

```

History

Find history

Script	Date	Status	Runtime
Untitled - 1	Nov 10, 2022 5:51:34 AM	✓ 1	0.008 s
UPDATE Student SET USERNAME='Leni',EMAIL='lenitha123@gmail.com',ROLL_NO=35,PASSWORD='jsfh...		✓	0.008 s
Untitled - 1	Nov 10, 2022 5:40:54 AM	✓ 1	0.006 s
INSERT INTO Student(USERNAME,EMAIL,ROLL_NO,PASSWORD) VALUES ('Maha','maha123@gmail.com',34...		✓	0.006 s
Untitled - 1	Nov 10, 2022 5:26:19 AM	✓ 1	0.006 s
DELETE FROM Student WHERE ROLL_NO = 34		✓	0.006 s

3)Connect python code to db2:

main.py - New folder - Visual Studio Code [Administrator]

```

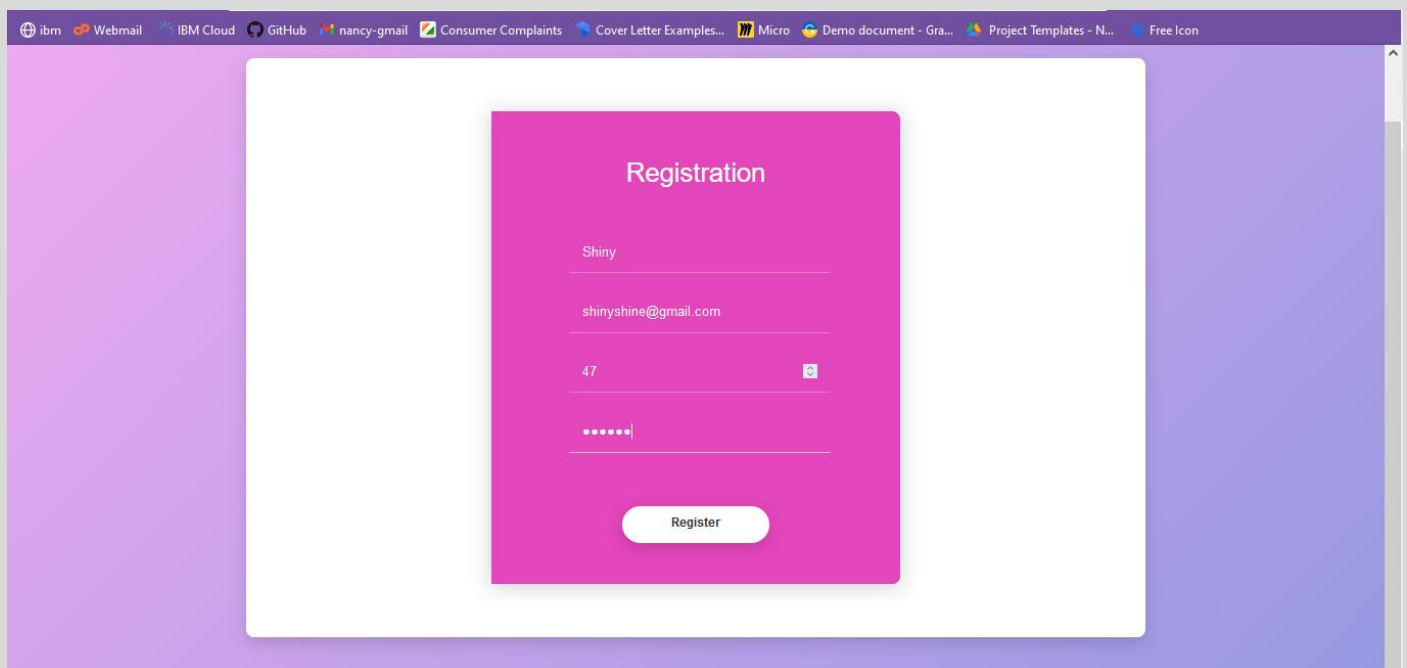
1 import ibm_db
2 def list_all():
3     sql = "SELECT * from Student"
4     stmt = ibm_db.exec_immediate(conn,sql)
5     dic = ibm_db.fetch_both(stmt)
6     while dic !=False:
7         print(dic['EMAIL'])
8         print(dic['USERNAME'])
9         print(dic['ROLL_NO'])
10        print(dic['PASSWORD'])
11        dic = ibm_db.fetch_both(stmt)
12 def insert_values(email,username,roll_no,password):
13     sql="INSERT INTO Student values('{}','{}','{}','{}').format(email,username,roll_no,password)
14     stmt = ibm_db.exec_immediate(conn,sql)
15     print("No of affected rows:",ibm_db.num_rows(stmt))
16 def delete_values():
17     sql="DELETE FROM Student WHERE ROLL_NO = 47"
18     stmt = ibm_db.exec_immediate(conn,sql)
19     print("No of affected rows:",ibm_db.num_rows(stmt))
20 def update_values():
21     sql="UPDATE Student SET EMAIL = 'Maha123@gmail.com', USERNAME = 'maha', ROLL_NO = 34,PASSWORD = 'pravin' WHERE ROLL_NO = 35"
22     stmt = ibm_db.exec_immediate(conn,sql)
23     print("No of affected rows:",ibm_db.num_rows(stmt))
24 try:
25     conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=2f3279a5-73d1-4859-88f0-a6c3e6b4b907.c3n41cmd0nqnk39u98g.databases.appdomain.cloud;PORT=3075f
26     print("Database Connected")
27     insert_values("leni@gmail.com","leni",35,"pandi")
28     insert_values("shiny123.com","shiny",47,"shinebabe")
29     update_values()
30     #delete_values()
31     list_all()
32 except:
33     print("Connection Failed")

```

Ln 30, Col 21 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit

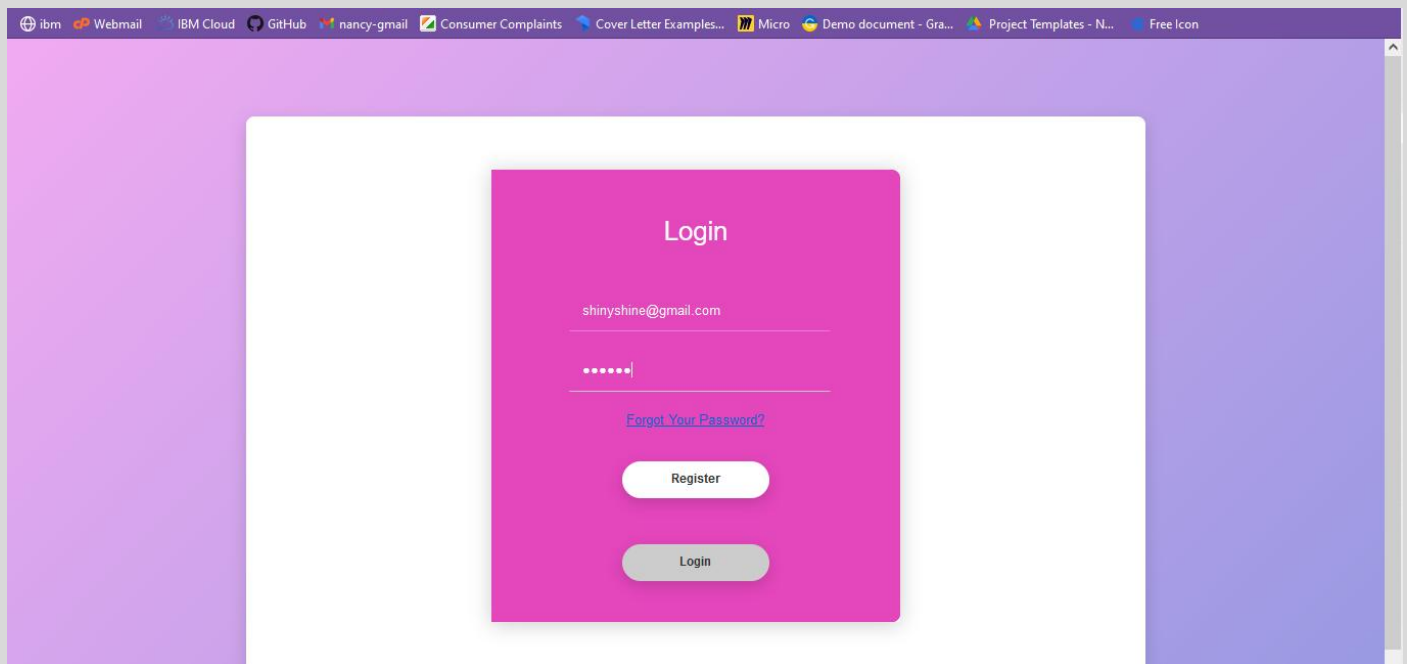
4) Create a flask app with registration page, login page and welcome page. By default, load the registration page once the user enters all the fields store the data in database and navigate to login page. Authenticate user with username and password. If the user is valid show the welcome page:

i) Registration Page

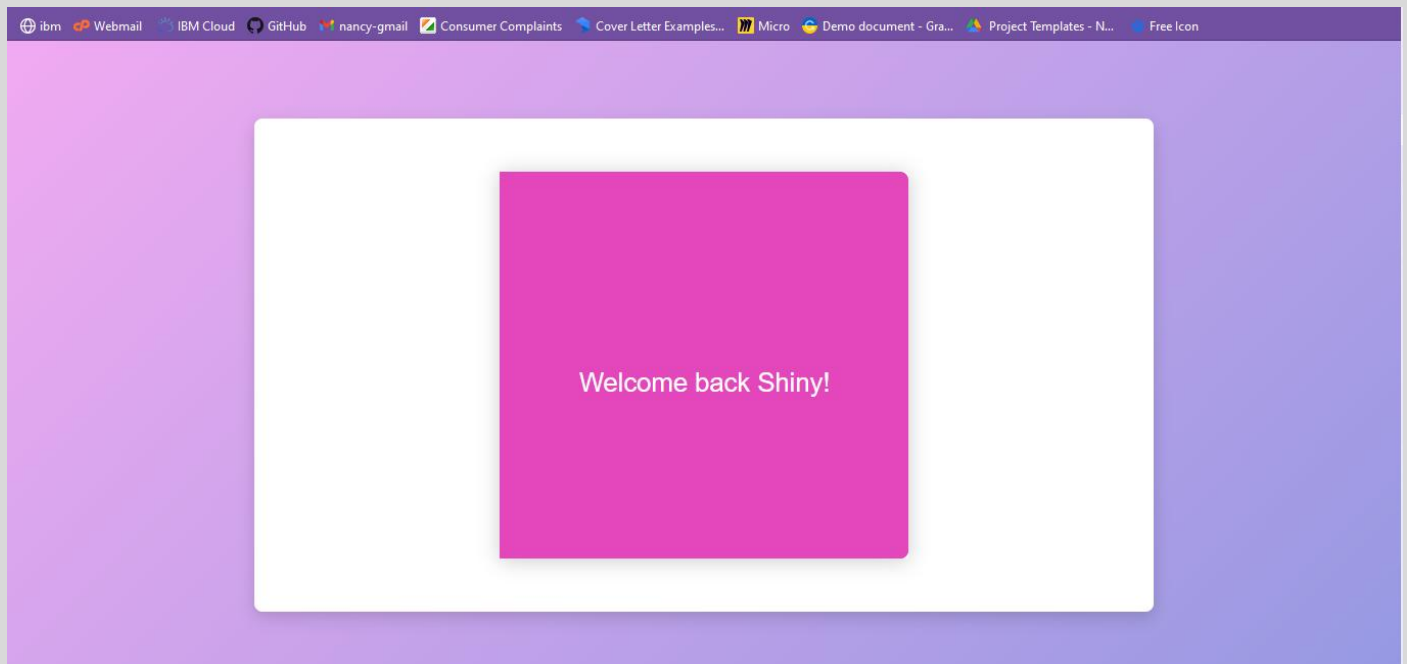


The image shows a web browser window with a purple header bar containing several tabs: 'ibm', 'Webmail', 'IBM Cloud', 'GitHub', 'nancy-gmail', 'Consumer Complaints', 'Cover Letter Examples...', 'Micro', 'Demo document - Gra...', 'Project Templates - N...', and 'Free Icon'. The main content area has a light purple gradient background. In the center, there is a white rectangular box containing a pink registration form. The form is titled 'Registration' and includes the following fields: a text input for 'Shiny', a text input for 'shinyshine@gmail.com', a text input for '47' with a calendar icon to its right, and a password input represented by seven dots. Below these fields is a white 'Register' button with a shadow.

ii)Login Page



iii)Welcome Page



HTML Templates:

Registration Page:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Registration Page</title>
    <meta charset="utf-8">
    <!-- Mobile Specific Metas -->
    <meta name="viewport" content="width=device-width, initial-scale=1, maximum-
scale=1">
    <!-- Font-->
    <link rel="stylesheet" href="static/montserrat-font.css">
    <link rel="stylesheet" href="static/material-design-iconic-font.min.css">
    <!-- Main Style Css -->
    <link rel="stylesheet" href="static/style.css">
  </head>
  <body class="form-v10">
    <div class="page-content">
      <div class="form-v10-content">
        <form class="form-detail" action="#" method="post" id="myform">
          <div class="login-form">
            <div class="form-right">
              <div class="form-rightn">
                <form>
                  <h1 >Registration</h1>
                  <div class="content">

                      <div class="form-row form-row-2">
                        <input type="text" name="username" id="username" class="input-text"
placeholder="User Name" required>
                      </div>

                      <div class="form-row form-row-3">
                        <input type="email" name="email" class="email" id="email"
placeholder="Email" required>
                      </div>

                      <div class="form-row form-row-2">
                        <input type="number" name="rollno" id="rollno" class="input-text"
placeholder="Roll No" required>
                      </div>


```

```

        <div class="form-row form-row-4">
            <input type="password" name="password" class="password"
id="password" placeholder="password" required autocomplete="new-password">
        </div>

    </div>
    <div class="form-row-lastn">
        <input type="button" name="register" class="register"
value="Register">
    </div>

</form>
</div>
</div>
</form>
</div>
</div>
</body>
</html>

```

Login Page:

```

<!DOCTYPE html>
<html>
    <head>
        <title>login Page</title>
        <meta charset="utf-8">
        <!-- Mobile Specific Metas -->
        <meta name="viewport" content="width=device-width, initial-scale=1, maximum-
scale=1">
        <!-- Font-->
        <link rel="stylesheet" href="static/montserrat-font.css">
        <link rel="stylesheet" href="static/material-design-iconic-font.min.css">
        <!-- Main Style Css -->
        <link rel="stylesheet" href="static/style.css">
    </head>
    <body class="form-v10">
        <div class="page-content">
            <div class="form-v10-content">
                <form class="form-detail">
                    <div class="login-form">

```

```

<div class="form-right">
  <div class="form-rightn">
    <form action="/receivedata" method="post" id="myform">
      <h1 >Login</h1>
      <div class="content">
        <div class="form-row form-row-3">
          <input type="email" name="email" class="email" id="email"
placeholder="Email" required>
        </div>
        <div class="form-row form-row-4">
          <input type="password" name="password" class="password"
id="password" placeholder="password" required autocomplete="new-password">
        </div>
        <a href="#" class="link">Forgot Your Password?</a>
      </div>
      <div class="form-row-lastn">
        <input type=button name="register" class="register"
value="Register">
      </div>
      <div class="form-row-lastn">
        <input type=button name="action" class="register" value="Login">
      </div>
    </form>
  </div>
</div>
</form>
</div>
</div>
</body>
</html>

```

Welcome Page:

```

<!DOCTYPE html>
<html>
  <head>
    <title>welcome Page</title>
    <meta charset="utf-8">
    <!-- Mobile Specific Metas -->
    <meta name="viewport" content="width=device-width, initial-scale=1, maximum-
scale=1">
    <!-- Font-->

```



```
<link rel="stylesheet" href="static/montserrat-font.css">
<link rel="stylesheet" href="static/material-design-iconic-font.min.css">
<!-- Main Style Css -->
<link rel="stylesheet" href="static/style.css">
</head>
<body class="form-v10">
  <div class="page-content">
    <div class="form-v10-content">
      <form class="form-detail" action="#" method="post" id="myform">
        <div class="login-form">
          <div class="form-right">
            <div class="form-rightn">
              <form>
                <h1 ></h1>
                <div class="content">
                  <p1>
                    </p1>
                </div>
                <div class="content">
                  <h1> Welcome back Shiny!
                  </h1>
                </div>
                <div class="content">
                  <p1>
                    </p1>
                </div>
                <div class="content">
                  <p1>
                    </p1>
                </div>
              </form>
            </div>
          </div>
        </div>
      </form>
    </div>
  </div>
</body>
</html>
```

Static:

style.css:

```
body {
    margin: 0;
}
.button{
    padding-left: 0;
    text-align: center;
    margin: 44px 0 30px;}
.login-form {
    background: #fff;
    width: 500px;
    margin: 65px auto;
    display: -webkit-box;
    display: flex;
    -webkit-box-orient: vertical;
    -webkit-box-direction: normal;
        flex-direction: column;
    border-radius: 4px;
    box-shadow: 0 2px 25px rgba(0, 0, 0, 0.2);
    text-align: center;
}
.login-form h1 {
    padding: 35px 35px 0 35px;
    font-weight: 300;
    text-align: center;
    color: #fff;
}
.login-form .content {
    padding: 35px;
    text-align: center;
    text-align: center;
}
.page-content {
    width: 100%;
    margin: 0 auto;
    background: #75e2e9;
    display: flex;
```



```

        .form-v10-content .form-detail .select-btn,
        .form-v10-content .form-detail .form-left .form-group .form-row.form-row-4 .select-btn,
        .form-v10-content .form-detail .form-right .form-group .form-row.form-row-2 .select-
btn {
            right: 15%;
        }
        .form-v10-content .form-detail h2 {
            padding: 33px 30px 0px 30px;
        }
        .form-v10-content .form-detail .form-checkbox {
            padding: 0 30px;
        }
        .form-v10-content .form-detail .form-checkbox .checkmark {
            left: 30px;
        }
        .form-v10-content .form-detail .form-right .form-row-last {
            padding-left: 0;
            text-align: center;
        }
        .form-v10-content .form-detail .form-right .form-row-lastn {
            padding-left: 0;
            text-align: relative;
        }
    }
}

```

app.py:

```

from flask import Flask,render_template,request
app=Flask(__name__)

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

@app.route("/login1")
def login1():
    return render_template('login1.html')

```

