MEDIA STREAMING WITH IBM CLOUD STREAMING

PHASE – 3

DEVELOPMENT PHASE – 1

Date	23 October 2023
Team ID	5566
Team Name	Proj_227254_Team_2
Project Name	Media streaming with IBM Cloud streaming

1.INTRODUCION:

Streaming files like audio, video and others are stored on a server somewhere on the world wide web(WWW). When a user request file ,It gets transmitted over the web as sequential packets of data that are streamed instantly . Since streaming data is broken down into data packets ,its transmission is similar to that of other types of data sent over the internet.

An audio or video player hosted by the browser accepts the flow of data packets from the streaming service's remote server and interprets them as video or audio, then plays the media for the user.

STREAMING REQUIREMENTS:

Streaming usually requires a reliable, high-speed internet connection because the media files must be retrieved from a remote location and then delivered to a user's local system with minimal lag or latency (delay). A slow connection decreases the speed at which the content is delivered, affecting the user's streaming experience.

INSTALL PYTHON IN OS:

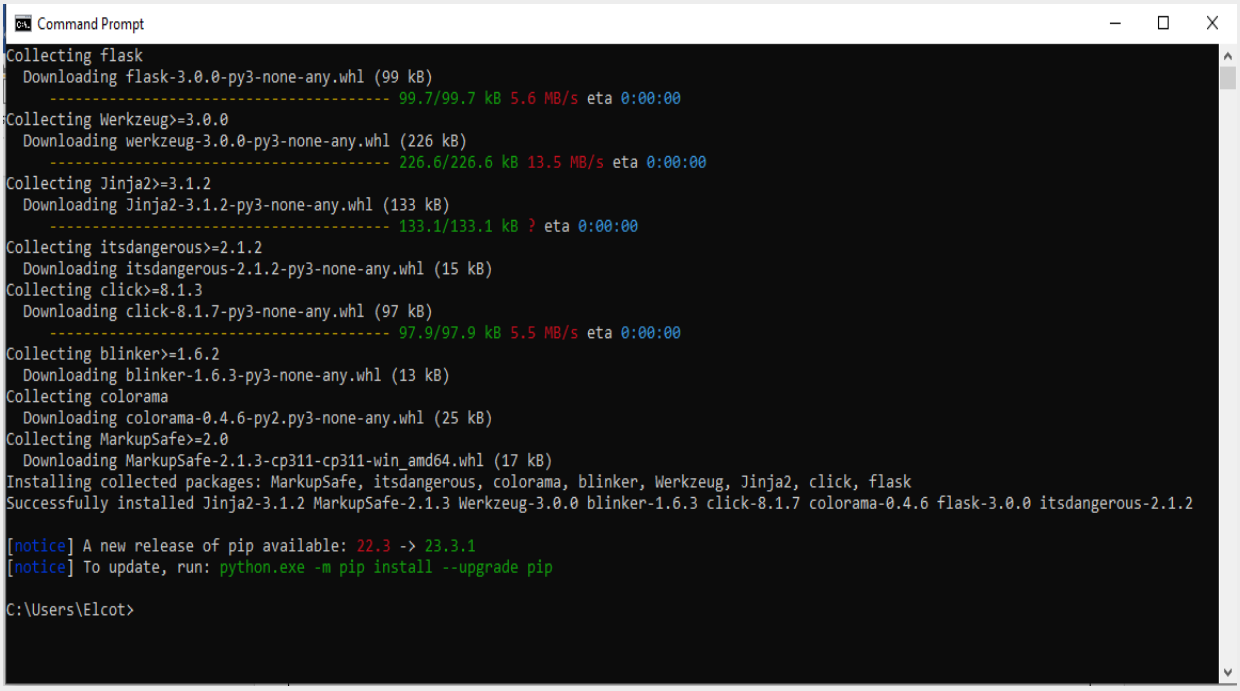
1. **Download PyCharm**:
   Visit the JetBrains website (https://www.jetbrains.com/pycharm/download/) and download the community (free) or professional version of PyCharm, depending on your needs. Make sure to download the Windows version.
2. **Run the Installer**:
   Locate the downloaded installer (usually an .exe file) and double-click it to run the installation.
3. **Choose Installation Type**:
   During the installation, you'll be prompted to select the installation type. You can choose the default settings or customize them according to your preferences. You can also select the option to create associations for .py files, which allows you to open Python scripts with PyCharm by default.
4. **Select the Destination Folder**:
   Choose the folder where you want to install PyCharm, or leave it at the default location.
5. **Create Shortcuts**:
   You can choose whether you want to create desktop shortcuts or add PyCharm to the Start menu.
6. **Complete the Installation**:
   Click the "Install" button to start the installation process. PyCharm will be installed on your system.
7. **Launch PyCharm**:
   Once the installation is complete, you can launch PyCharm by checking the "Run PyCharm" option in the installer or by finding it in your Start menu or desktop shortcuts.

INSTALLING PACKAGES :

1.PACKAGE NAME: Flask

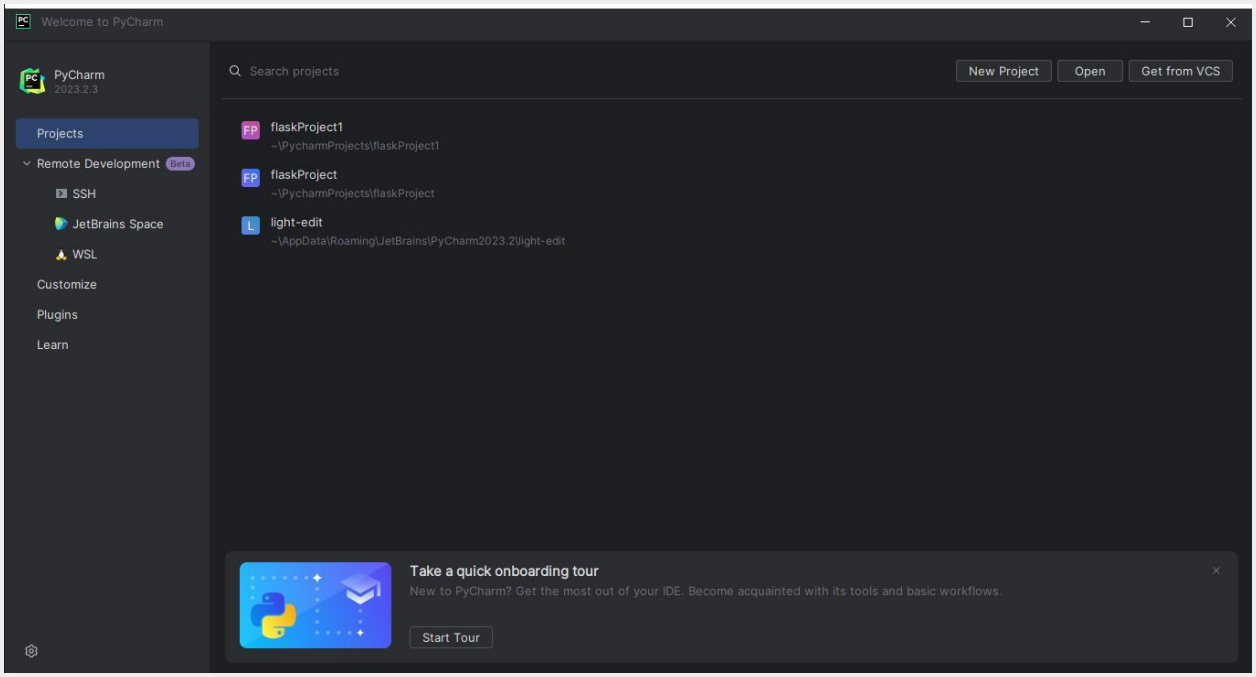
USE : to use flask framework in python

COMMAND TO INSTALL: pip install flask



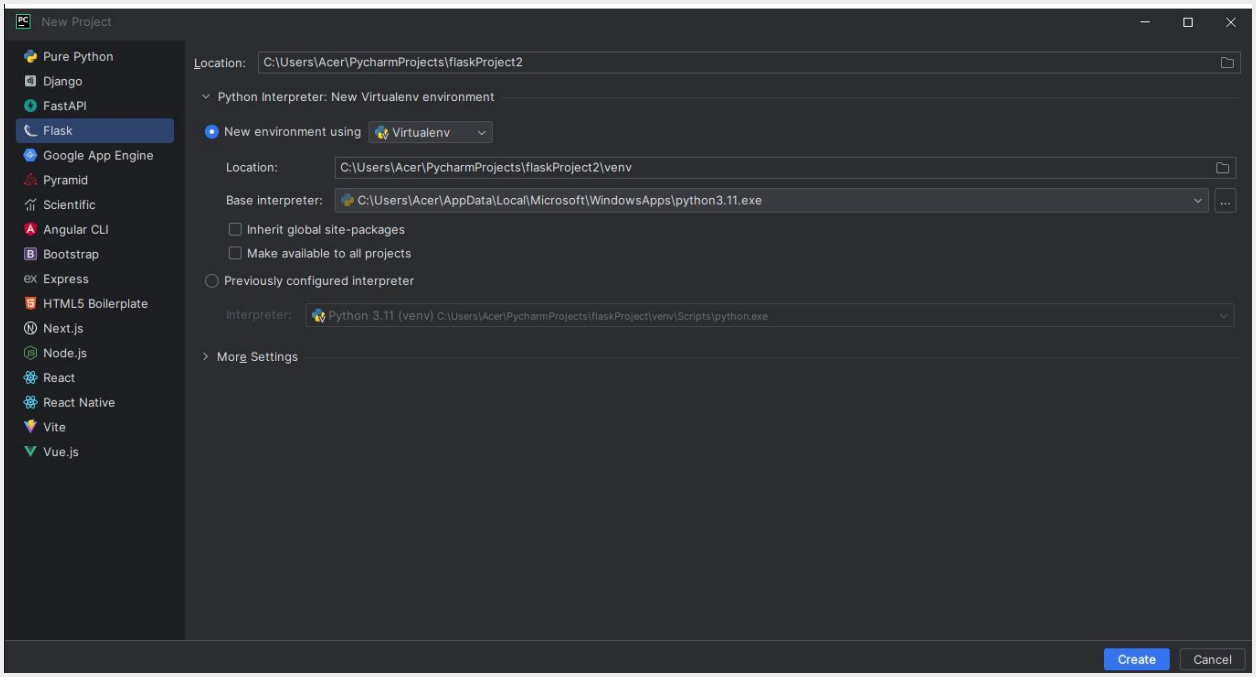
GETTING STARTED WITH PYCHARM:

1. To create a new project click on new project:

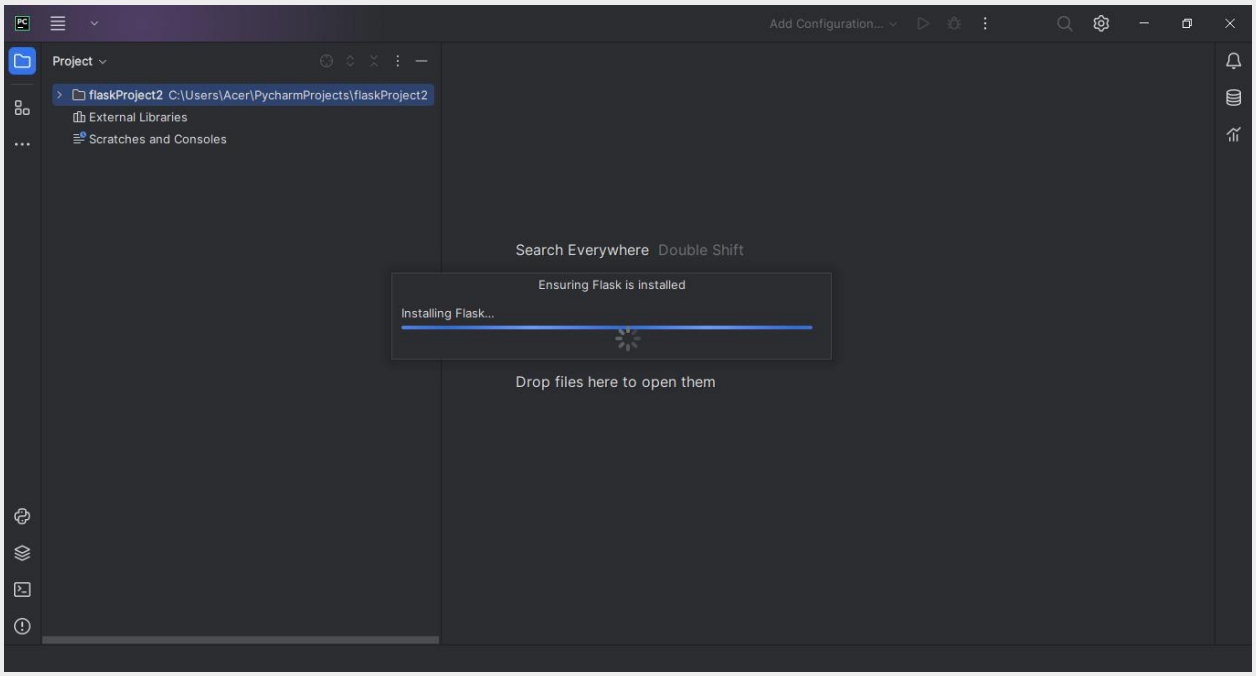


2. Select flask to create a project in flask program
    - Select your environment as you need.

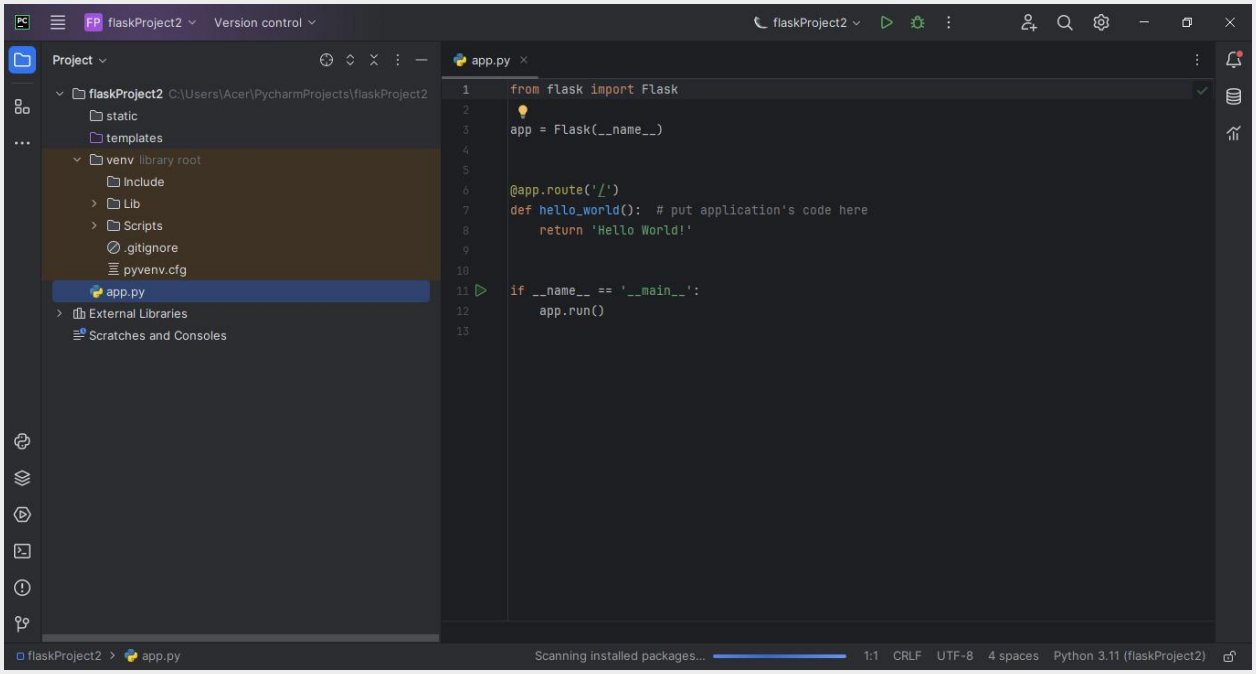
- Select the required path you need the projects to be stored.



3. Pycharm will automatically installs required packages for flask automatically.



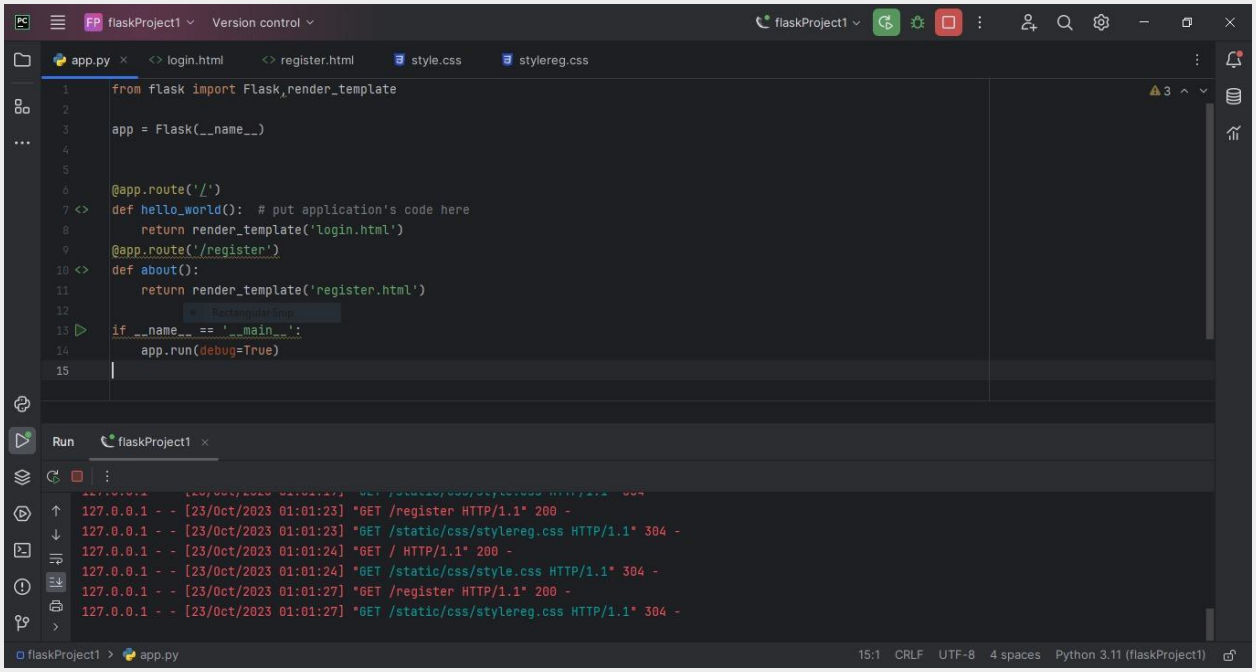
4. Required folders will be installed automatically. Then we can ready to code successfully.



STEPS TO CREATE LOGIN AND REGISTRATION PAGE:

1. **Code this to render a html code in flask**

```
from flask import Flask,render_template

app = Flask(_name_)

@app.route('/')
def hello_world():  # put application's code here
    return render_template('login.html')
@app.route('/register')
def about():
    return render_template('register.html')

if _name_ == '_main_':
    app.run(debug=True)
```

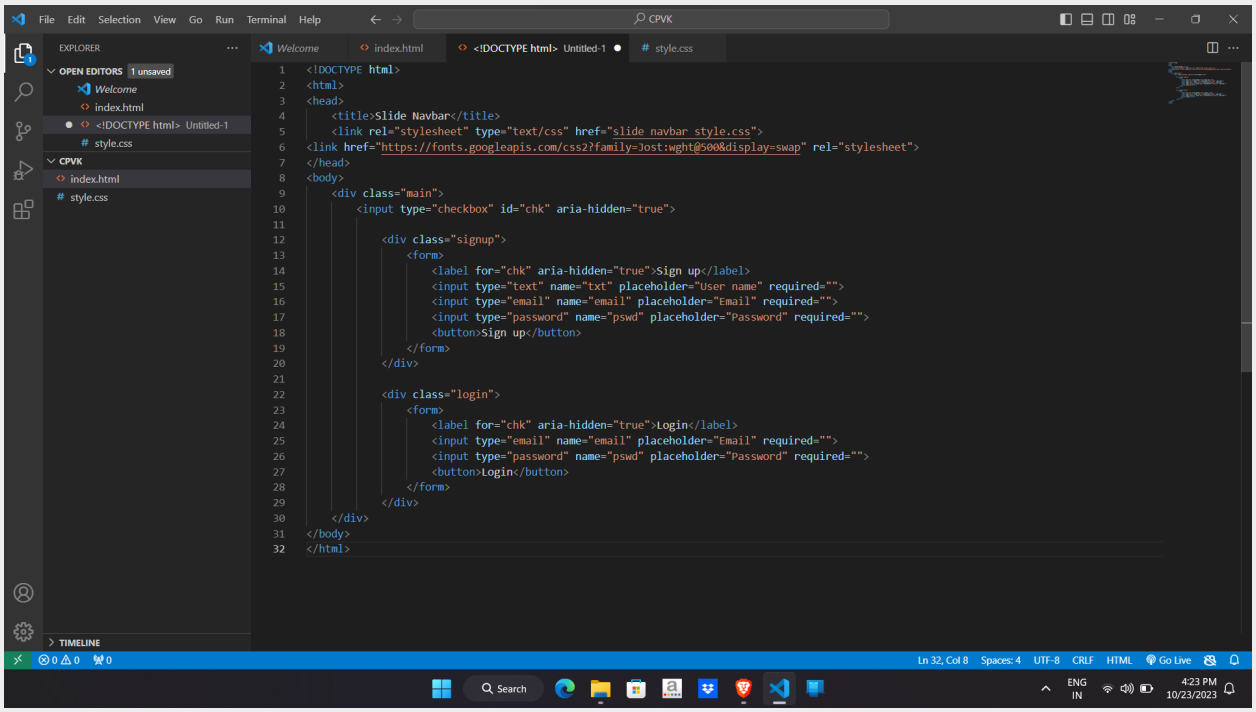


2. Code for login page html:

```
<!DOCTYPE html>

<html>

<head>

    <title>Slide Navbar</title>

    <link rel="stylesheet" type="text/css" href="slide navbar style.css">

<link
href="https://fonts.googleapis.com/css2?family=Jost:wght@500&display=swap" rel="stylesheet">

</head>

<body>

    <div class="main">
```

```
        <input type="checkbox" id="chk" aria-hidden="true">


            <div class="signup">
                <form>
                    <label for="chk" aria-hidden="true">Sign up</label>
                    <input type="text" name="txt" placeholder="User name" required="">
                    <input type="email" name="email" placeholder="Email" required="">
                    <input type="password" name="pswd" placeholder="Password" required="">
                    <button>Sign up</button>
                </form>
            </div>


            <div class="login">
                <form>
                    <label for="chk" aria-hidden="true">Login</label>
                    <input type="email" name="email" placeholder="Email" required="">
                    <input type="password" name="pswd" placeholder="Password" required="">
                    <button>Login</button>
                </form>
```

```
                </div>
    </div>
</body>
</html>
```




```
<!DOCTYPE html>
<html>
<head>
    <title>Slide Navbar</title>
    <link rel="stylesheet" type="text/css" href="slide navbar style.css">
<link href="https://fonts.googleapis.com/css2?family=Jost:wght@500&display=swap" rel="stylesheet">
</head>
<body>
    <div class="main">
        <input type="checkbox" id="chk" aria-hidden="true">

            <div class="signup">
                <form>
                    <label for="chk" aria-hidden="true">Sign up</label>
                    <input type="text" name="txt" placeholder="User name" required="">
                    <input type="email" name="email" placeholder="Email" required="">
                    <input type="password" name="pswd" placeholder="Password" required="">
                    <button>Sign up</button>
                </form>
            </div>

            <div class="login">
                <form>
                    <label for="chk" aria-hidden="true">Login</label>
                    <input type="email" name="email" placeholder="Email" required="">
                    <input type="password" name="pswd" placeholder="Password" required="">
                    <button>Login</button>
                </form>
            </div>
    </div>
</body>
</html>
```

3. **SYNCHRONIZING A CSS FILE WITH LOGIN HTML FOR DESIGNING PURPOSE:**

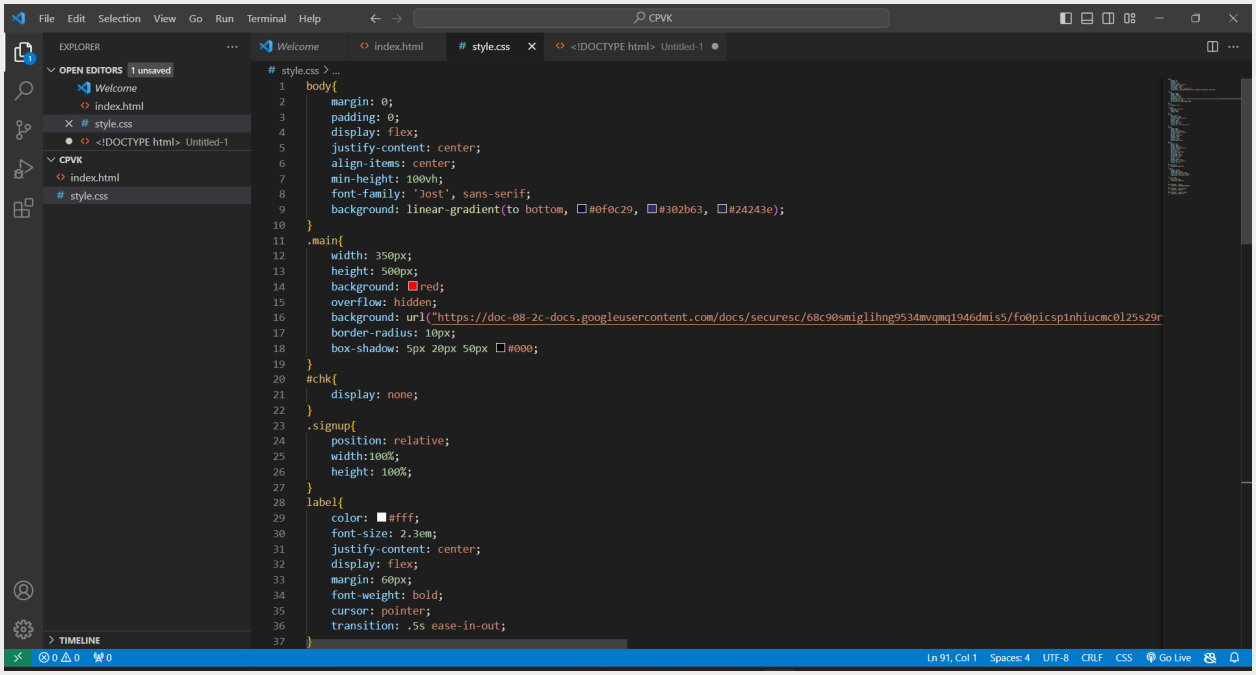
```
body{
    margin: 0;
    padding: 0;
```

```
    display: flex;
    justify-content: center;
    align-items: center;
    min-height: 100vh;
    font-family: 'Jost', sans-serif;
    background: linear-gradient(to bottom, #0f0c29, #302b63, #24243e);
}
.main{
    width: 350px;
    height: 500px;
    background: red;
    overflow: hidden;
    background:
url("https://doc-08-2c-docs.googleusercontent.com/docs/securesc/68c90smiglihng9534mvqmq1946dmis5/fo0picsp1nhiucmc0l25s29respgpr4j/1631524275000/03522360960922298374/03522360960922298374/1Sx0jhdpEpnNIydS4rnN4kHSJtU1EyWka?e=view&authuser=0&nonce=gcrocepgbb17m&user=03522360960922298374&hash=tfhgbs86ka6divo3llbvp93mg4csvb38") no-repeat
center/ cover;
    border-radius: 10px;
    box-shadow: 5px 20px 50px #000;
}
#chk{
    display: none;
}
```

```
.signup{
    position: relative;
    width:100%;
    height: 100%;
}
label{
    color: #fff;
    font-size: 2.3em;
    justify-content: center;
    display: flex;
    margin: 60px;
    font-weight: bold;
    cursor: pointer;
    transition: .5s ease-in-out;
}
input{
    width: 60%;
    height: 20px;
    background: #e0dede;
    justify-content: center;
    display: flex;
    margin: 20px auto;
    padding: 10px;
```

```
    border: none;
    outline: none;
    border-radius: 5px;
}
button{
    width: 60%;
    height: 40px;
    margin: 10px auto;
    justify-content: center;
    display: block;
    color: #fff;
    background: #573b8a;
    font-size: 1em;
    font-weight: bold;
    margin-top: 20px;
    outline: none;
    border: none;
    border-radius: 5px;
    transition: .2s ease-in;
    cursor: pointer;
}
button:hover{
    background: #6d44b8;
```

```
}
.login{
    height: 460px;
    background: #eee;
    border-radius: 60% / 10%;
    transform: translateY(-180px);
    transition: .8s ease-in-out;
}
.login label{
    color: #573b8a;
    transform: scale(.6);
}

#chk:checked ~ .login{
    transform: translateY(-500px);
}
#chk:checked ~ .login label{
    transform: scale(1);
}
#chk:checked ~ .signup label{
    transform: scale(.6);
}
```

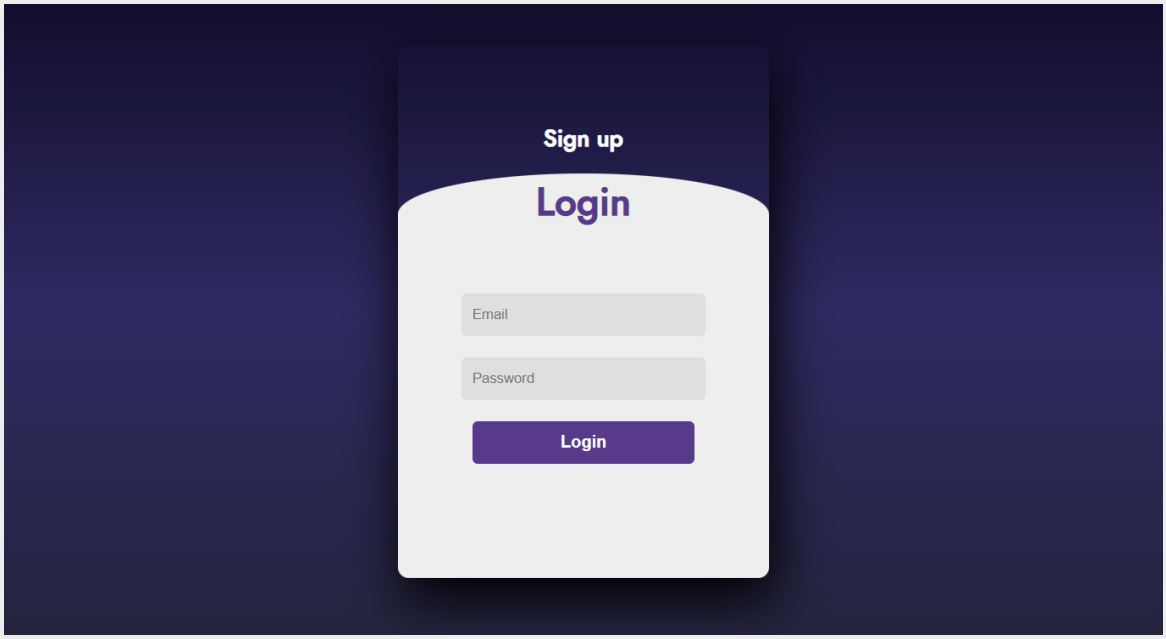


4. CREATING A SQL TO STORE THE DATA's IN THE DATABASE:

```
CREATE DATABASE IF NOT EXISTS UserDatabase;

USE UserDatabase;

CREATE TABLE IF NOT EXISTS Users (
    UserID INT AUTO_INCREMENT PRIMARY KEY,
    Username VARCHAR(50) NOT NULL,
    MobileNo VARCHAR(15) NOT NULL,
    EmailID VARCHAR(100) NOT NULL,
    Password VARCHAR(255) NOT NULL
```

);

5. FINAL OUTPUT FOR LOGIN PAGE:



6. FINAL OUTPUT FOR REGISTRATION PAGE: