MEDIA STREAMING WITH IBM CLOUD STREAMING

PHASE – 4

DEVELOPMENT PHASE – II

THESE CODES ARE CONTINUATION OF DEVELOPMENT PHASE -1

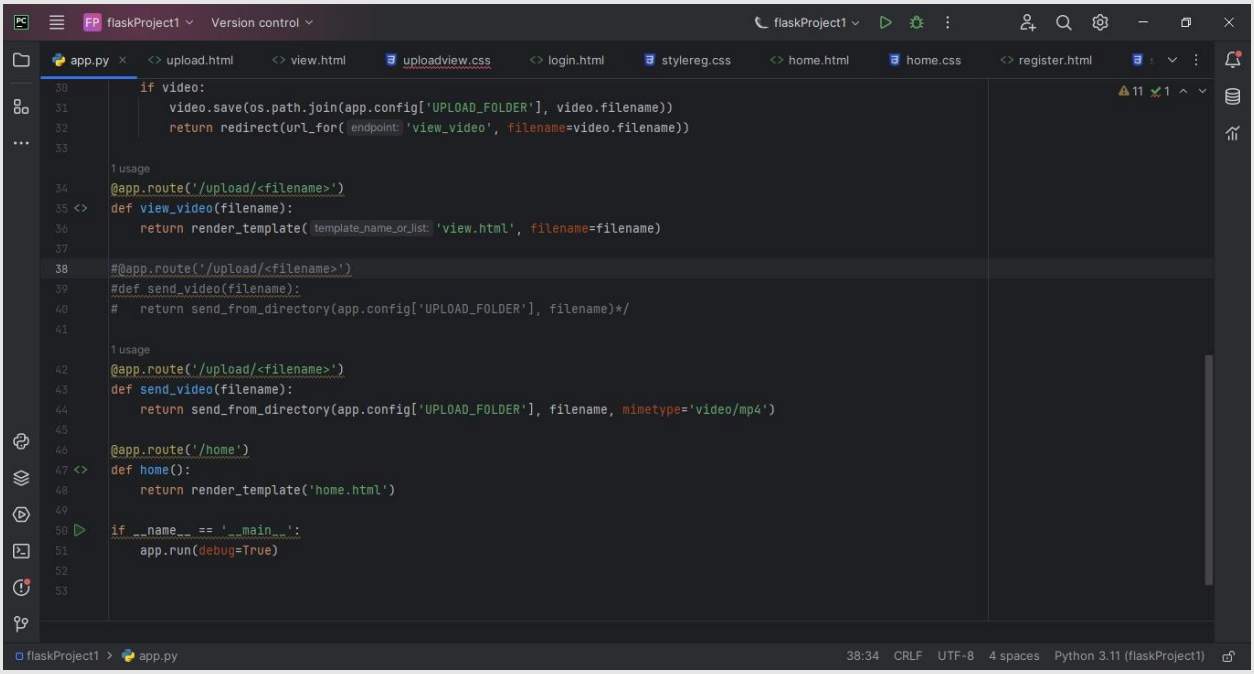
STEPS TO BE IMPLEMENTED

1. **CODE TO RENDER HTML IN FLASK:**

```
from flask import Flask,render_template, request, redirect, url_for, send_from_directory

import os

app = Flask(_name_)

app.config['UPLOAD_FOLDER'] = 'upload'

app.static_folder = 'static'


@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')
```

```
@app.route('/video')
def upload_form():
    return render_template('upload.html')


@app.route('/upload', methods=['POST'])
def upload_video():
    if 'video' not in request.files:
        return redirect(request.url)


    video = request.files['video']


    if video.filename == '':
        return redirect(request.url)


    if video:
        video.save(os.path.join(app.config['UPLOAD_FOLDER'],
video.filename))
        return redirect(url_for('view_video', filename=video.filename))


@app.route('/upload/<filename>')
def view_video(filename):
    return render_template('view.html', filename=filename)


#@app.route('/upload/<filename>')
#def send_video(filename):
```

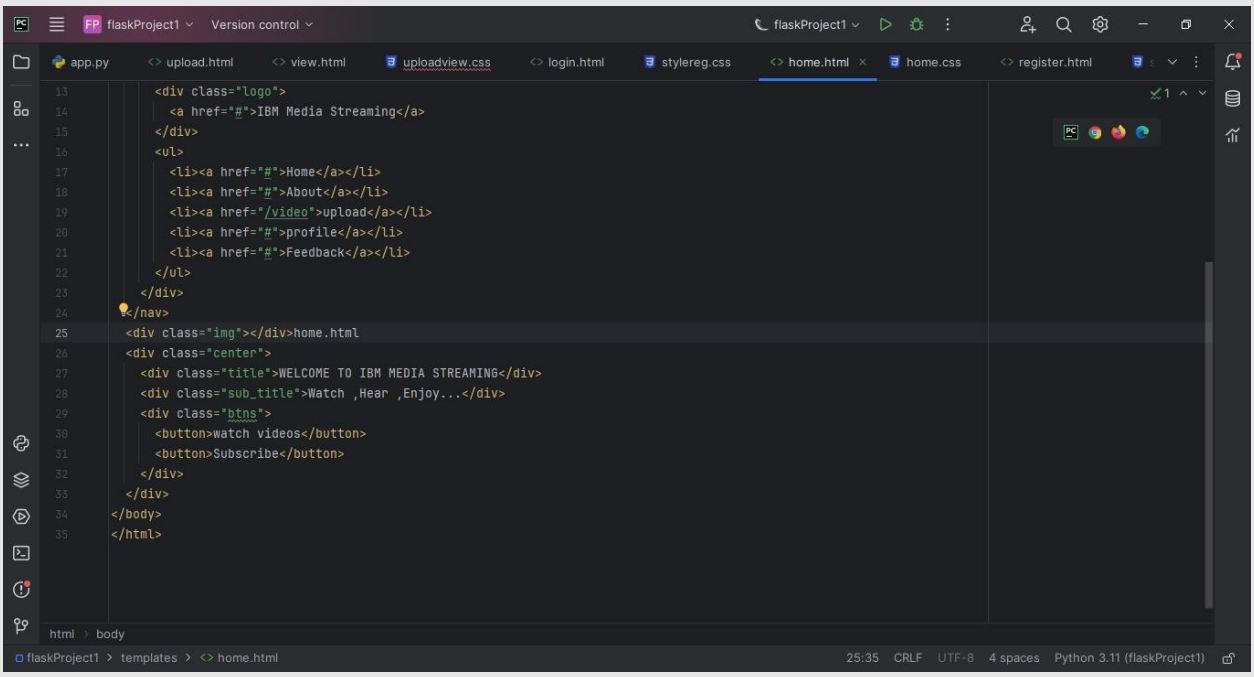
```
#   return send_from_directory(app.config['UPLOAD_FOLDER'], filename)*/


@app.route('/upload/<filename>')
def send_video(filename):
    return send_from_directory(app.config['UPLOAD_FOLDER'], filename, mimetype='video/mp4')


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


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



2. HTML CODE TO CREATE A HOMEPAGE:

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title> Website Layout | CodingLab</title>
    <!link rel="stylesheet" href="css/home.css">
    <link rel="stylesheet" type="text/css" href="{{ url_for('static', filename='css/home.css') }}">
  </head>
<body>
  <nav>
    <div class="menu">
      <div class="logo">
        <a href="#">IBM Media Streaming</a>
      </div>
      <ul>
        <li><a href="#">Home</a></li>
        <li><a href="#">About</a></li>
        <li><a href="/video">upload</a></li>
        <li><a href="#">profile</a></li>
```

```
      <li><a href="#">Feedback</a></li>
    </ul>
   </div>
  </nav>
  <div class="img"></div>
  <div class="center">
   <div class="title">WELCOME TO IBM MEDIA STREAMING</div>
   <div class="sub_title">Watch ,Hear ,Enjoy...</div>
   <div class="btns">
    <button>watch videos</button>
    <button>Subscribe</button>
   </div>
  </div>
 </body>
</html>
```



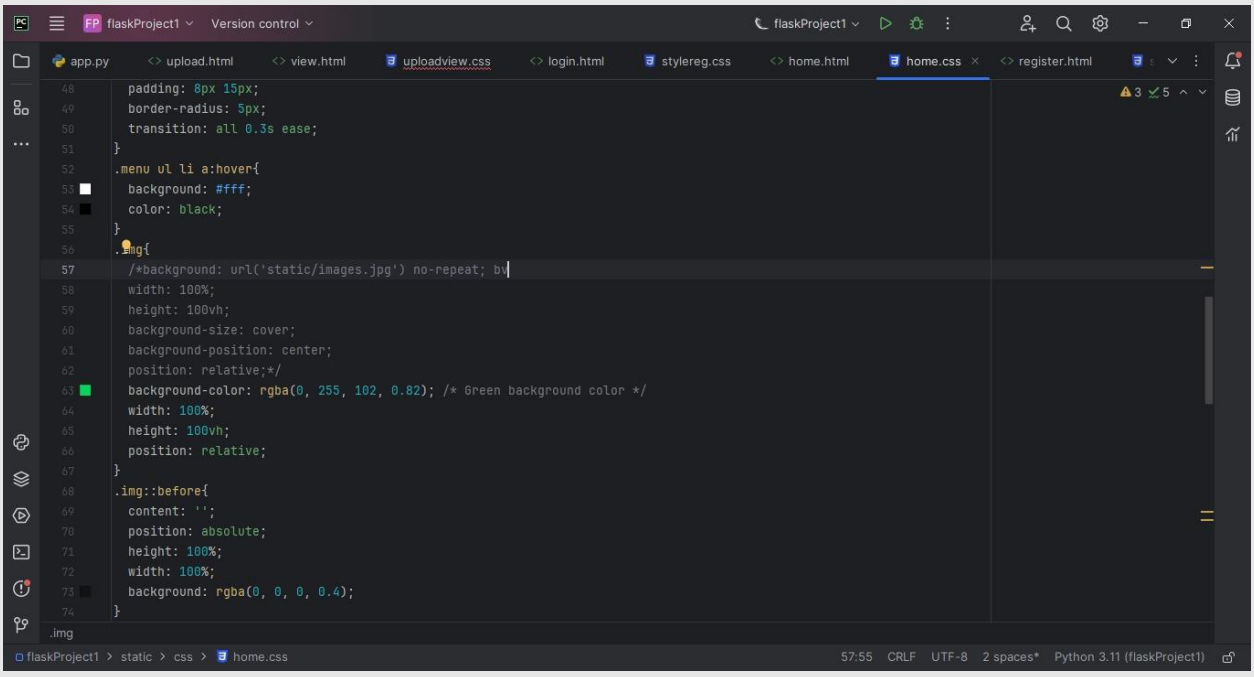
3. **CSS CODE TO CREATE A HOMEPAGE:**

```
@import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;
500;600;700&display=swap');
*{
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: 'Poppins',sans-serif;
}
::selection{
  color: #000;
  background: #fff;
}
nav{
  position: fixed;
  background: #1b1b1b;
  width: 100%;
  padding: 10px 0;
  z-index: 12;
}
nav .menu{
  max-width: 1250px;
  margin: auto;
  display: flex;
  align-items: center;
  justify-content: space-between;
  padding: 0 20px;
}
.menu .logo a{
  text-decoration: none;
  color: #fff;
  font-size: 35px;
  font-weight: 600;
```

```
}
.menu ul{
  display: inline-flex;
}
.menu ul li{
  list-style: none;
  margin-left: 7px;
}
.menu ul li:first-child{
  margin-left: 0px;
}
.menu ul li a{
  text-decoration: none;
  color: #fff;
  font-size: 18px;
  font-weight: 500;
  padding: 8px 15px;
  border-radius: 5px;
  transition: all 0.3s ease;
}
.menu ul li a:hover{
  background: #fff;
  color: black;
}
.img{
  /*background: url('static/images.jpg') no-repeat; bv
  width: 100%;
  height: 100vh;
  background-size: cover;
  background-position: center;
  position: relative;*/
  background-color: rgba(0, 255, 102, 0.82); /* Green background color */
  width: 100%;
  height: 100vh;
  position: relative;
```

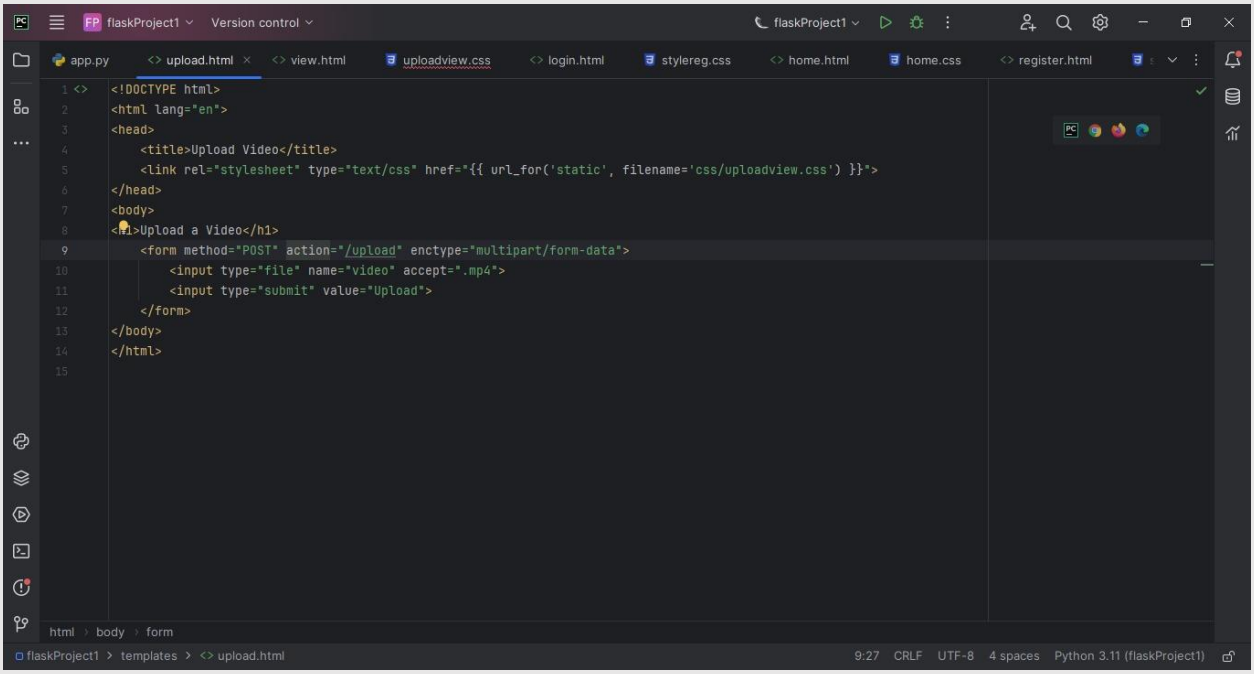
```
}
.img::before{
  content: '';
  position: absolute;
  height: 100%;
  width: 100%;
  background: rgba(0, 0, 0, 0.4);
}
.center{
  position: absolute;
  top: 52%;
  left: 50%;
  transform: translate(-50%, -50%);
  width: 100%;
  padding: 0 20px;
  text-align: center;
}
.center .title{
  color: #fff;
  font-size: 55px;
  font-weight: 600;
}
.center .sub_title{
  color: #fff;
  font-size: 52px;
  font-weight: 600;
}
.center .btns{
  margin-top: 20px;
}
.center .btns button{
  height: 55px;
  width: 170px;
  border-radius: 5px;
  border: none;
```

```
  margin: 0 10px;
  border: 2px solid white;
  font-size: 20px;
  font-weight: 500;
  padding: 0 10px;
  cursor: pointer;
  outline: none;
  transition: all 0.3s ease;
}
.center .btns button:first-child{
  color: #fff;
  background: none;
}
.btns button:first-child:hover{
  background: white;
  color: black;
}
.center .btns button:last-child{
  background: white;
  color: black;
}
```



4. HTML CODE TO UPLOAD A DATA IN STREAMING SITE:

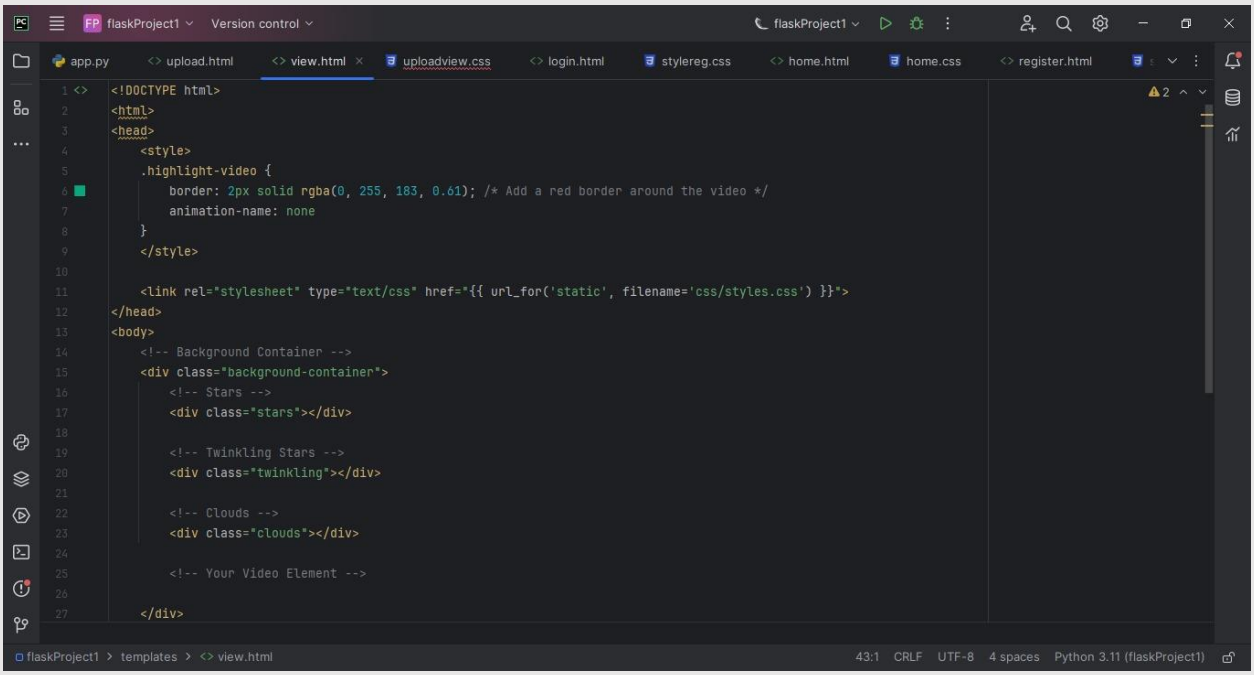
```
<!DOCTYPE html>
<html lang="en">
<head>
   <title>Upload Video</title>
   <link rel="stylesheet" type="text/css" href="{{ url_for('static',
filename='css/uploadview.css') }}">
</head>
<body>
<h1>Upload a Video</h1>
   <form method="POST" action="/upload" enctype="multipart/form-
data">
      <input type="file" name="video" accept=".mp4">
      <input type="submit" value="Upload">
   </form>
</body>
</html>
```



5. HTML TO STREAM A DATA IN STREAMING SITE:

```
<!DOCTYPE html>
<html>
<head>
   <style>
   .highlight-video {
      border: 2px solid rgba(0, 255, 183, 0.61); /* Add a red border around
the video */
      animation-name: none
   }
   </style>

   <link rel="stylesheet" type="text/css" href="{{ url_for('static',
filename='css/styles.css') }}">
</head>
<body>
   <!-- Background Container -->
   <div class="background-container">
      <!-- Stars -->
      <div class="stars"></div>

      <!-- Twinkling Stars -->
      <div class="twinkling"></div>

      <!-- Clouds -->
      <div class="clouds"></div>

      <!-- Your Video Element -->

   </div>

   <div class="video-container">
      <video class="highlight-video" width="640" height="480" controls >
```

```
        <source src="{{ url_for('send_video', filename=filename) }}"
type="video/mp4">
      </video>
    </div>
    <!-- Your regular page content goes here -->
    <div class="page-content">
      <!-- More content, other sections, etc. -->
    </div>

</body>
</html>
```



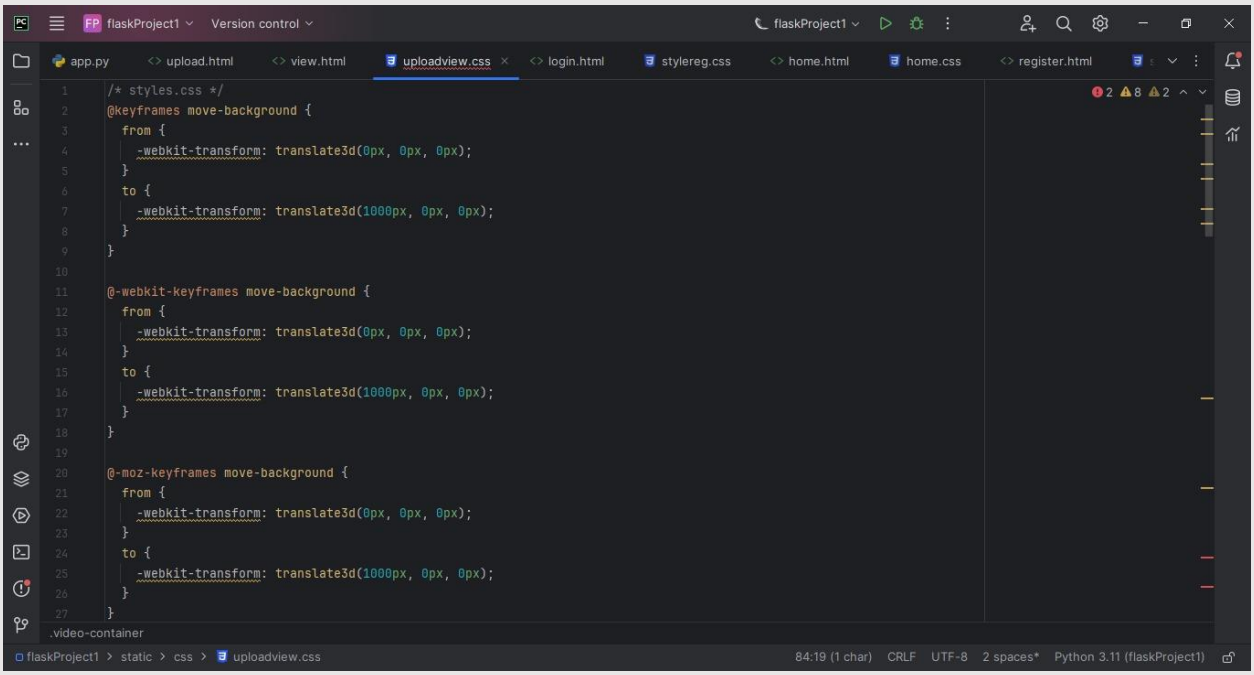
6. CSS CODE FOR BOTH UPLOAD AND STREAMING A VIDEO:

```
@keyframes move-background {
 from {
  -webkit-transform: translate3d(0px, 0px, 0px);
 }
 to {
  -webkit-transform: translate3d(1000px, 0px, 0px);
 }
```

```
}

@-webkit-keyframes move-background {
  from {
    -webkit-transform: translate3d(0px, 0px, 0px);
  }
  to {
    -webkit-transform: translate3d(1000px, 0px, 0px);
  }
}

@-moz-keyframes move-background {
  from {
    -webkit-transform: translate3d(0px, 0px, 0px);
  }
  to {
    -webkit-transform: translate3d(1000px, 0px, 0px);
  }
}

.background-container {
  position: fixed;
  top: 0;
  left: 0;
  bottom: 0;
  right: 0;
}

.stars {
  background: black url(https://s3-us-west-
2.amazonaws.com/s.cdpn.io/1231630/stars.png) repeat;
  position: absolute;
  top: 0;
  bottom: 0;
  left: 0;
```

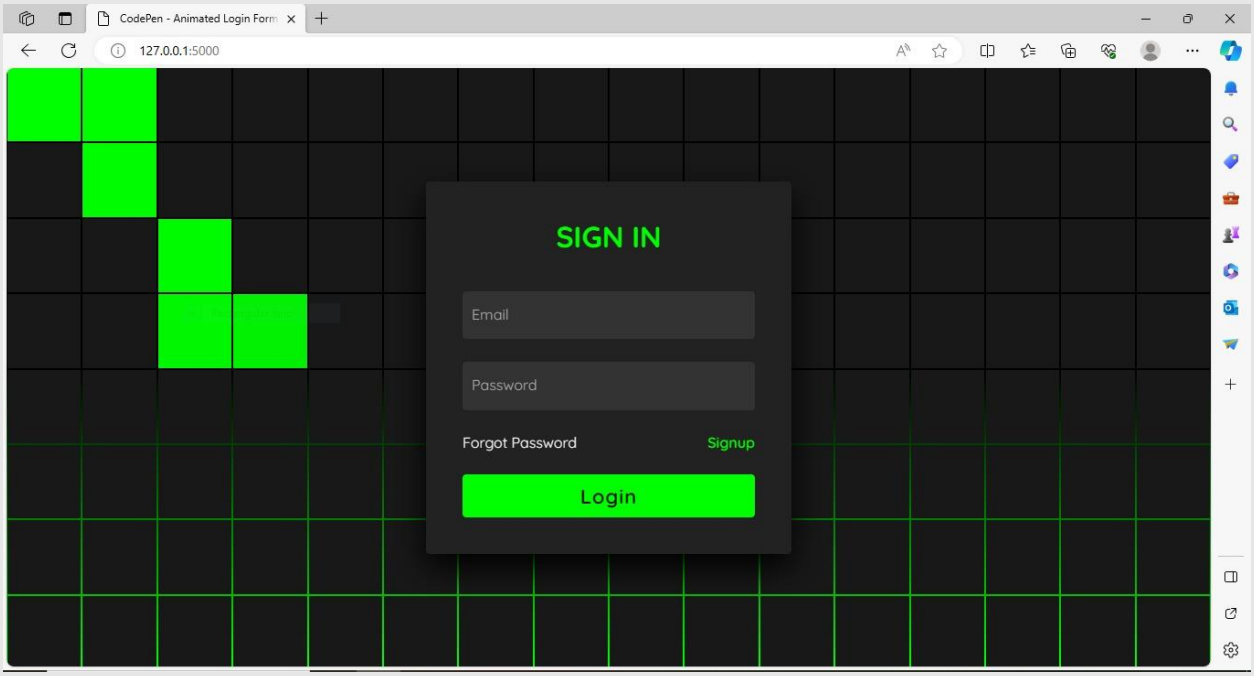
```
  right: 0;
  display: block;
  z-index: 0;
}

.twinkling {
  width: 10000px;
  height: 100%;
  background: transparent url("https://s3-us-west-
2.amazonaws.com/s.cdpn.io/1231630/twinkling.png") repeat;
  background-size: 1000px 1000px;
  position: absolute;
  right: 0;
  top: 0;
  bottom: 0;
  z-index: 2;

  -moz-animation: move-background 70s linear infinite;
  -ms-animation: move-background 70s linear infinite;
  -o-animation: move-background 70s linear infinite;
  -webkit-animation: move-background 70s linear infinite;
  animation: move-background 70s linear infinite;
}

.clouds {
  width: 10000px;
  height: 100%;
  background: transparent url("https://s3-us-west-
2.amazonaws.com/s.cdpn.io/1231630/clouds_repeat.png") repeat;
  background-size: 1000px 1000px;
  position: absolute;
  right: 0;
  top: 0;
  bottom: 0;
  z-index: 3;
```

```
  -moz-animation: move-background 150s linear infinite;
  -ms-animation: move-background 150s linear infinite;
  -o-animation: move-background 150s linear infinite;
  -webkit-animation: move-background 150s linear infinite;
  animation: move-background 150s linear infinite;
}
.video-container {
    position: relative;
}
/* CSS rule for highlighting the video */
.highlight-video {
    border: 2px solid red;

video {
  height: 70vh;
  width: 70vh;
  position: absolute;
  z-index: 3;
  right: 20px;
}
```

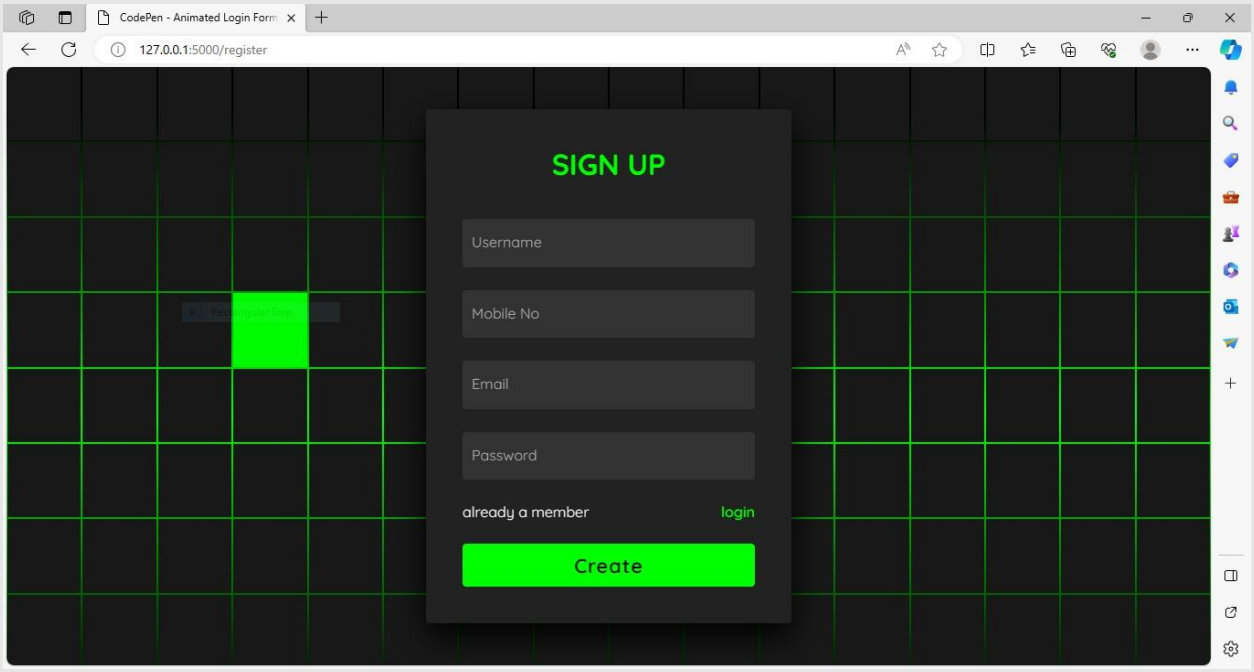


FINAL OUTPUT FOR ALL PROGRAMS:

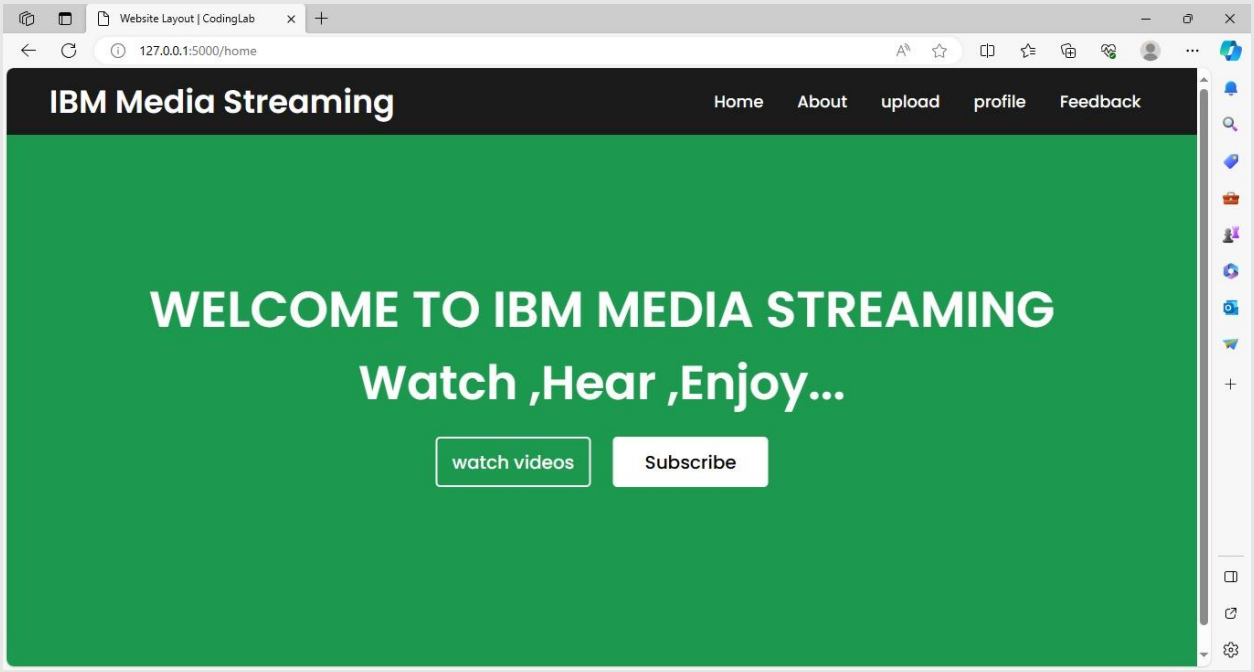
1. LOGIN PAGE TO ENTER INTO THE HOME PAGE:



2. SIGN UP PAGE TO CREATE AN ACCOUNT TO BE LOGGED IN:

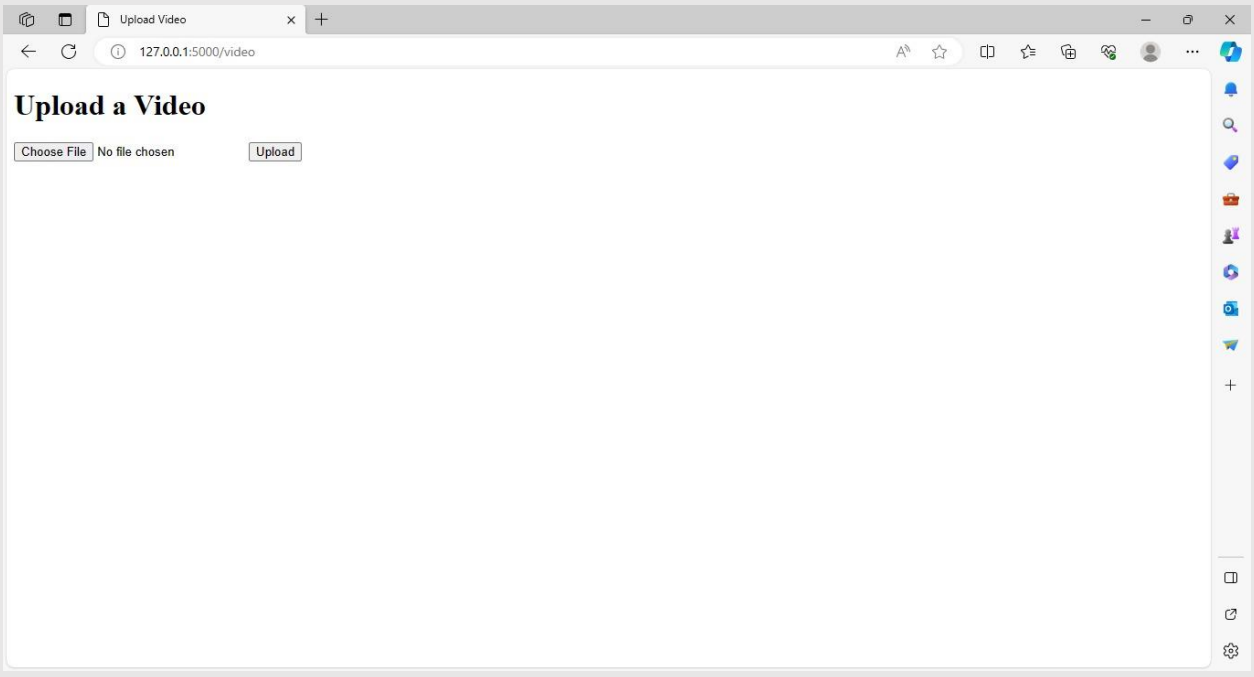


3. HOME PAGE INTERFACE FOR MEDIA STREAMING:

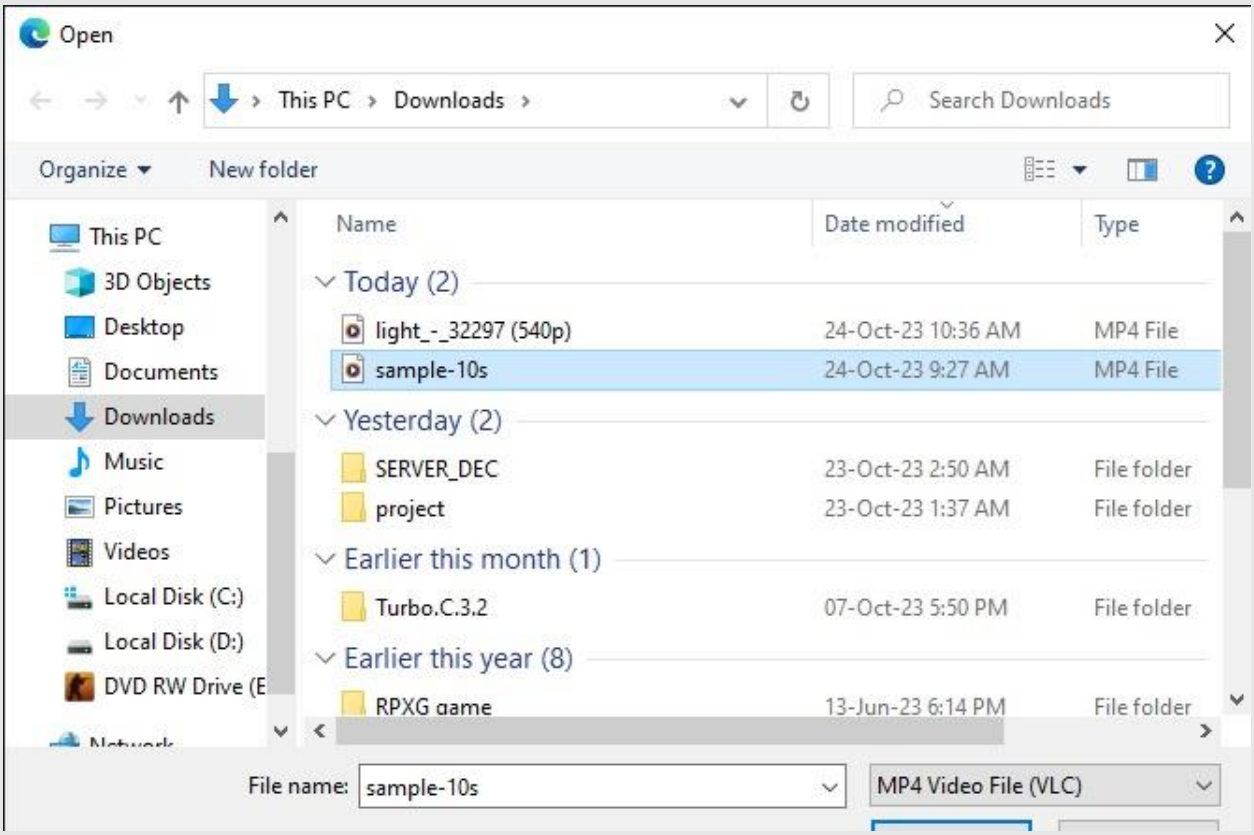


4. STEPS TO UPLOAD A FILE:

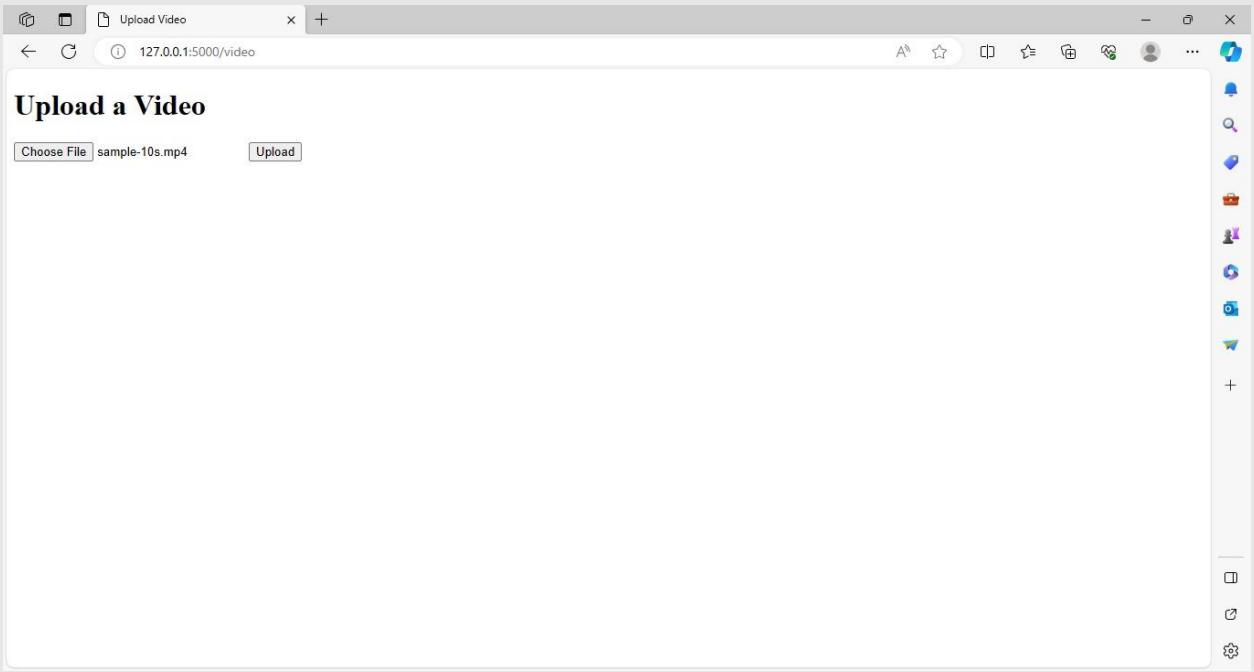
4.1) FIRST CLICK CHOOSE FILE CHECK BOX:



4.2)CHOOSE THE FILE AND CLICK OPEN TO CONTINUE:



4.3) CLICK THE UPLOAD CHECK BOX TO UPLOAD A VIDEO TO BE STREAMED:



5. STREAMING MEDIA INTERFACE: