

PROJECT DEVELOPMENT PHASE

Sprint 3

Date	10TH NOVEMBER 2022
Team ID	PNT2022TMID00047
Project Name	Developing a Flight Delay Prediction Model using Machine Learning

mainpage.html

```
<html>

<div align="center" class="logbg">

<head>

<meta charset="UTF-8">

<center>

<table>

<tr>

<td><h1><br>Prediction of Flight Delay<br><br></h1></td>

<td><form action="{{ url_for('logout') }}">

<input type="submit" class="btn" value="logout"/><br>

</form></td>

</tr>

</table>

</center>

<link rel="stylesheet" href="{{ url_for('static', filename='styleless.css') }}">

<style>

body{

overflow: hidden;

margin: 0%;

padding: 0%;

}

</style>
```

```
</head>
<body>
  <form action="" >
    <center>
      <table>
        <tr>
          <td>Enter the flight number:</td>
          <td><input type="text" id="fname"><br></td>
        </tr>
        <tr>
          <td>Month:</td>
          <td><input type="number" id="month"><br></td>
        </tr>
        <tr>
          <td>Day of Month:</td>
          <td><input type="number" id="daymonth"><br></td>
        </tr>
        <tr>
          <td>Day of Week:</td>
          <td><input type="number" id="dayweek"><br></td>
        </tr>
        <tr>
          <td>Origin:</td>
          <td><select id="origin">
            <option value="atl">ATL</option>
            <option value="dtw">DTW</option>
            <option value="sea">SEA</option>
            <option value="msp">MSP</option>
            <option value="jfk">JFK</option>
          </td>
        </tr>
      </table>
    </center>
  </form>
</body>
```

```

        </select></td>
<tr>
<tr>
        <td>Destination:</td>
        <td><select id="destination">
            <option value="atl">ATL</option>
            <option value="dtw">DTW</option>
            <option value="sea">SEA</option>
            <option value="msp">MSP</option>
            <option value="jfk">JFK</option>
        </select></td>
<tr>
<tr>
        <td>Scheduled Departure Time:</td>
        <td><input type="number" id="sdeparttime"><br></td>
</tr>
<tr>
        <td>Scheduled Arrival Time:</td>
        <td><input type="number" id="sarrivalttime"><br></td>
</tr>
<tr>
        <td>Actual Departure Time:</td>
        <td><input type="number" id="adeparttime"><br></td>
</tr>
<tr>
        <td><br><input type="submit" class="btn" value="SUBMIT"></br>
</tr>
</table>
</center>

```

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

app.py

```
from flask import Flask, render_template, request, redirect, url_for, session
from flask_mysql import MySQL
import MySQLdb.cursors
import re
import mysql.connector

mydb = mysql.connector.connect(
    host = "localhost",
    user = "root",
    password = "Lokesh@2005",
    database = "userlogin"
)

app = Flask(__name__)
app.secret_key = 'london'
app.config['MYSQL_HOST'] = 'localhost'
app.config['MYSQL_USER'] = 'root'
app.config['MYSQL_PASSWORD'] = 'Lokesh@2005'
app.config['MYSQL_DB'] = 'userlogin'
mysql = MySQL(app)

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

    if request.method == 'POST' and 'username' in request.form and 'password' in request.form:
        username = request.form['username']
```

```

password = request.form['password']

#cursor = mysql.connection.cursor()

cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)

cursor.execute('SELECT * FROM accounts WHERE username = % s AND password = % s',
(username, password, ))

account = cursor.fetchone()

if account:

    session['loggedin'] = True

    #session['id'] = account['id']

    session['username'] = account['username']

    msg = 'Logged in successfully !'

    return render_template('mainpage.html', msg = msg)

else:

    msg = 'Incorrect username / password !'

return render_template('login.html', msg = msg)

```

```
@app.route('/logout')
```

```
def logout():
```

```

    session.pop('loggedin', None)

    session.pop('id', None)

    session.pop('username', None)

    return redirect(url_for('login'))#change{}

    #return render_template('login.html', msg = msg)

```

```
@app.route('/')
```

```
@app.route('/register', methods=['GET', 'POST'])
```

```
def register():
```

```

    msg = ""

    if request.method == 'POST' and 'username' in request.form and 'password' in
request.form and 'email' in request.form :

        username = request.form['username']

```

```

password = request.form['password']
email = request.form['email']
print(username)
cursor = mysql.connection.cursor()
#cursor = mydb.cursor(MySQLdb.cursors.DictCursor)
cursor.execute('SELECT * FROM accounts WHERE username = % s;', (username, ))
#cursor.execute('SELECT * FROM accounts')
account = cursor.fetchone()

if account:
    msg = 'Account already exists !'
elif not re.match(r'^[@]+@[^@]+\.[^@]+', email):
    msg = 'Invalid email address !'
elif not re.match(r'[A-Za-z0-9]+', username):
    msg = 'Username must contain only characters and numbers !'
elif not username or not password or not email:
    msg = 'Please fill out the form !'
else:
    cursor.execute('INSERT INTO accounts VALUES (NULL, % s, % s, % s);', (username,
password, email, ))
    mysql.connection.commit()
    cursor.close()
    msg = 'You have successfully registered !'
    return render_template('login.html', msg = msg)
elif request.method == 'POST':
    msg = 'Please fill out the form !'
    return render_template('register.html', msg = msg)

@app.route('/')
@app.route('/mainpage', methods = ['GET', 'POST'])
def mainpage():
    msg=""

```

```
    return render_template('mainpage.html', msg = msg)

if __name__ == "__main__":
    app.run(debug = True)
```