

PROJECT DEVELOPMENT PHASE

Sprint 1

Date	14 NOVEMBER 2022
Team ID	PNT2022TMID22157
Project Name	Developing a Flight Delay Prediction Model using Machine Learning

register.html

<html>

<head>

<meta charset="UTF-8">

<title> Register </title>

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

<style>

body{

overflow: hidden;

margin: 0%;

padding: 0%;

}

</style>

</head>

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

<body>

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

<div class="header">

<h1 class="word">Register</h1>

</div></br></br></br>

<h2 class="word">

<form action="{{ url_for('register') }}" method="post">

<div class="msg"></div>

<label for="usr">Username: </label>

<input id="username" name="username" type="text" placeholder="Enter Your Username" class="textbox" required/></br></br>

<label for="psw">Password: </label>

<input id="password" name="password" type="password" placeholder="Enter

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Your Password" class="textbox" required/></br></br>

    <label for="e1"><b>Email: </b></label>

    <input id="email" name="email" type="text" placeholder="Enter Your Email ID"
class="textbox" required/></br></br>

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

</form>

</h2>

    <p class="bottom">Already have an account? <a class="bottom" href="{{
url_for('login') }}"> Sign In here</a></p>

    <a href="{{ url_for('mainpage') }}">Predict without signing in</a>

</div>

</body>

</div>

</html>

```

login.html

```

<html>

<head>

    <meta charset="UTF-8">

    <title> LOGIN </title>

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

    <style>

        body{

            overflow: hidden;

            margin: 0%;

            padding: 0%;

        }

    </style>

</head>

<body>

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

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

        <div class="header">

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        <h1 class="word">LOGIN</h1>

</div></br></br></br>

<h2 class="word">

    <form action="{{ url_for('login') }}" method="post">

        <div class="msg"></div>

        <label for="uname"><b>Username: </b></label>

        <input id="username" name="username" type="text" placeholder="Enter Your
Username" class="textbox" required/></br></br>

        <label for="psw"><b>Password: </b></label>

        <input id="password" name="password" type="password" placeholder="Enter
Your Password" class="textbox" required/></br></br></br>

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

    </form>

</h2>

    <p class="bottom">Don't have an account? <a class="bottom" href="{{
url_for('register') }}"> Sign Up here</a></p>

</div>

</div>

</body>

</html>

```

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>

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        <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>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="sarrivaltime"><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_mysqlldb 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()
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        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)

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@app.route('/logout')

```

```

def logout():

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    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 = "

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```

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

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        username = request.form['username']
        password = request.form['password']

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        email = request.form['email']

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        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)

```