

# PROJECT DEVELOPMENT PHASE

## SPRINT 1 – CODE AND TESTCASE

|                |  |
|----------------|--|
| <b>Date</b>    | 06 November 2022                               |
| <b>Team ID</b> | PNT2022TMID10242                               |
| <b>Project</b> | Flight delay prediction using Machine learning |
| <b>Marks</b>   | 8 Marks  |

We have developed web based application Home Page which helps the User to Predict their flight with the help of details such as Flight number, Origin, Destination etc..,

### CODE :

#### Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Flight Prediction Details</title>
  <link rel="stylesheet" type="text/css" href="{{
url_for('static',filename='styles/style2.css') }}">
</head>
<body>
  <h1>Flight Delay Prediction using Machine Learning</h1>
  <h2>Team ID : PNT2022TMID10242</h2>

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

    <div class="form-control">
      <label for="fn" >
        Flight Number :
      </label>
```

```

        <input type="text" placeholder="Enter your Flight
Number" name="fno" required />
    </div>

    <div class="form-control">
        <label for="m" >
            Month :
        </label>

        <input type="text" placeholder="Enter your Month" name="month"
required />
    </div>

    <div class="form-control">
        <label for="dom">
            Day Of Month :
        </label>

        <input type="text"
            id="dom"
            placeholder="Enter your Day of Month"
name="dayofmonth" required/>
    </div>

    <div class="form-control">
        <label for="dow">
            Day Of Week :
        </label>

        <input type="text"
            id="dow"
            placeholder="Enter your Day of week" name="dayofweek"
required/>
    </div>

    <div class="form-control">
        <label for="ori">
            Origin :
        </label>

        <!-- <input type="text"
            id="ori"
            placeholder="Enter your Origin" name="ori" required /> -->
        <select name="origin" id="ori">
            <option value="msp">msp</option>
            <option value="dtw">dtw</option>
            <option value="jfk">jkf</option>
            <option value="sea">sea</option>
            <option value="atl">atl</option>

```

```

        </select>
    </div>
    <div class="form-control">
        <label for="dest">
            Destination :
        </label>
        <select name="destination" id="dest">
            <option value="msp">msp</option>
            <option value="dtw">dtw</option>
            <option value="jfk">jfk</option>
            <option value="sea">sea</option>
            <option value="atl">atl</option>

        </select>

    </div>
    <div class="form-control">
        <label for="sdt" >
            Scheduled Departure Time :
        </label>

        <input type="text"
            id="sdt"
            placeholder="Enter your scheduled departure time"
name="sscheduleddeparturetime" required />
    </div>
    <div class="form-control">
        <label for="sat">
            Scheduled Arrival Time :
        </label>

        <input type="text"
            id="sat"
            placeholder="Enter your scheduled arrival
time" name="scheduledarrivaltime" required/>
    </div>
    <div class="form-control">
        <label for="aat" >
            Actual Arrival Time :
        </label>

        <input type="text"
            id="aat"
            placeholder="Enter your actual arrival
time" name="actualarrivaltime" required/>
    </div>
    <button>

```

```

        <div class="svg-wrapper-1">
            <div class="svg-wrapper">
                <svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24"
width="24" height="24">
                    <path fill="none" d="M0 0h24v24H0z"></path>
                    <path fill="currentColor" d="M1.946 9.315c-.522-.174-.527-
.455.01-.634l19.087-6.362c.529-.176.832.12.684.638l-5.454 19.086c-.15.529-
.455.547-.679.045L12 14l6-8.8 6-8.054-2.685z"></path>
                </svg>
            </div>
        </div>
        <span>Predict</span>
    </button>

</form>
<b>{{showcase}}</b>
</body>
</html>

```

## Style.css :

```

@import
url('https://fonts.googleapis.com/css2?family=Poppins:ital,wght@0,400;0,500;0,
600;0,700;0,800;0,900;1,300&display=swap');

body{
    background-image: url('flight.jpg');
    background-repeat: no-repeat;
    background-attachment: fixed;
    background-size: cover;
    text-align: center;
    /* background-blend-mode:overlay; */
}
h1{
    margin-top: 10px;
    font-size: 55px;
    margin-bottom: 20px;
    text-align: center;
    letter-spacing: 2px;
    font-weight: 300px;
    color: rgb(255, 255, 255);
    opacity: .9;
}

```

```

h2{
  margin-top: 10px;
  font-size: 30px;
  margin-bottom: 5px;
  text-align: center;
  font-weight: 30px;
  color: rgb(255, 222, 181);
  opacity: .9;
}

form {
  /* background-color: rgba(255, 255, 255, 0.804); */
  background-color: #F0F1EE;
  max-width: 500px;
  margin: 50px auto;
  padding: 30px 20px;
  width: 30rem;
  height: 1050px;
  border-radius: 30px;
  box-shadow: 2px 5px 10px rgba(0, 0, 0, 0.5);
}

/* Styling form-control Class */
.form-control {
  text-align: left;
  margin-bottom: 25px;
}

/* Styling form-control Label */
.form-control label {
  display: block;
  margin-bottom: 10px;
  font-size: 25px;
  color: #19096b;
  font-weight: bolder;
  font-style: oblique;
}

/* Styling form-control input,
select, textarea */
.form-control input
{
  /* border: 1px solid #777; */
  /* border-radius: 2px; */
  padding: 10px;
  display: block;
  width: 95%;
  width: 80%;
}

```

```

    /* margin-bottom: 8px; */
    height: 500%;
    /* margin-top: 30%; */
    margin: 5% auto;
    /* border: none; */
    font-size: 14px;
    outline: none;
    background-color: #c4c4c462;
    border-radius: 10px;
}

.form-control select{
    padding: 10px;
    display: block;
    width: 95%;
    width: 80%;
    /* margin-bottom: 8px; */
    height: 500%;
    /* margin-top: 30%; */
    margin: 5% auto;
    /* border: none; */
    font-size: 14px;
    outline: none;
    background-color: #c4c4c462;
    border-radius: 10px;
}

button {
    font-size: 20px;
    background: rgb(21, 65, 196);
    color: white;
    padding: 0.7em 1em;
    height: 50px;
    width: 165px;
    /* align-content: center; */
    /* padding-left: 0.5em; */
    display: flex;

    border-radius: 16px;
    overflow: hidden;
    transition: all 0.2s;
    align-items: center;
    margin-left: 30%;
}

button span {
    display: block;
    margin-left: 0.9em;
    transition: all 0.3s ease-in-out;

```

```

}

button svg {
  display: block;
  transform-origin: center center;
  transition: transform 0.3s ease-in-out;
}

button:hover .svg-wrapper {
  animation: fly-1 0.6s ease-in-out infinite alternate;
}

button:hover svg {
  transform: translateX(1.2em) rotate(45deg) scale(1.1);
}

button:hover span {
  transform: translateX(5em);
}

button:active {
  transform: scale(0.95);
}

@keyframes fly-1 {
  from {
    transform: translateY(0.1em);
  }

  to {
    transform: translateY(-0.1em);
  }
}

.reg{
  margin-left: 100px;
}

```

## HOMEPAGE SCREENSHOTS :

Flight Prediction Details

127.0.0.1:5000

# Flight Delay Prediction using Machine Learning

Team ID : PNT2022TMID10242

**Flight Number :**

**Month :**

**Day Of Month :**

**Day Of Week :**


**Origin :**

**Destination :**

**Scheduled Departure Time :**

**Scheduled Arrival Time :**

**Actual Arrival Time :**

 Predict