# **APPLICATION BUILDING**

Date	12 November 2022
Team ID	PNT2022TMID13084
Project Name	Flight Delay Prediction Using Machine Learning

## **APPLICATION BUILDING:**

Building flask file:

app.py screen shots

```
import numpy as np
import os
from flask import Flask, request, jsonify, render_template
import pickle

app=Flask(_name__)
model = pickle.load(open('rfmodel.pkl', 'rb'))
@app.route("/")
def firstpage():
    return render_template("index.html")
```

```
output = round(prediction[0])

if output==0:
    return render_template('Prediction.html', prediction_text='No delay will happen {}'.format(output))
elif output==1:
    return render_template('Prediction.html', prediction_text='There is a chance to departure delay will happen {}'.format(output))
elif output==2:
    return render_template('Prediction.html', prediction_text='here is a chance to both departure and arrival delay will happen {}'.for
elif output==3:
    return render_template('Prediction.html', prediction_text='here is a chance to flight will diverted {}'.format(output))
elif output==4:
    return render_template('Prediction.html', prediction_text='here is a chance to cancel the flight {}'.format(output))
else:
    return render_template('Prediction.html', prediction_text='output {}'.format(output))
```

Figure 1 app.py

# Creating HTML files:

#### Index.html

Figure 2 index.html

### Prediction.html

```
<
```

Figure 3 prediction.html

# Index.css:

```
html.body{
    background-image: url("ap.png");
    /* Foll height */
height: 100%;
    /* Center and scale the image nicety */
background-position: left;
background-repeat: no-repeat;
    /* background-size: cover; */
}
nl{
    text-align: center;
    font-family: monospace;
}
.button {
    background-color: | yellow;
    text-align: center;
}
div {
    color: | black;
    /* background: 15px;
    padding: 15px;
    position: absolute;
    top: 50%;
    left: 50%;
    -ms-transform: translateX(-50%, -50%);
    transform: translate(-50%, -50%);
    transform: translate(-50%, -50%);
    font-size: 14px;
    display: grid;
line-height: 1.4;
```

Figure 4 index.css

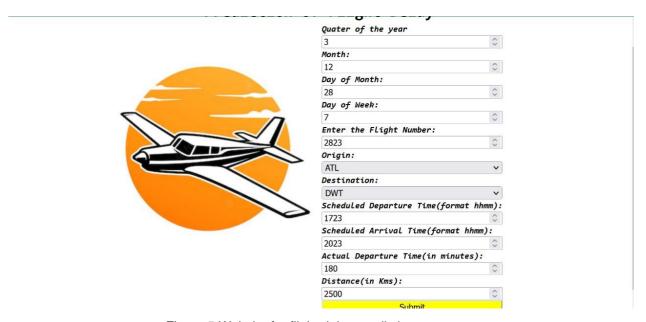


Figure 5 Website for flight delay prediction

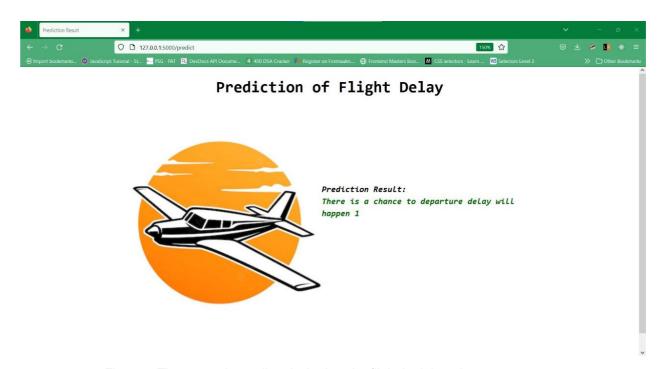


Figure 6 The output is predicted whether the flight is delayed or not