

SPRINT – 3 PROJECT DOCUMENT

Date	5 November 2022
Team ID	PNT2022TMID15779
Project Name	Flight Delay Prediction Using Machine Learning

DEVELOPMENT PHASE:

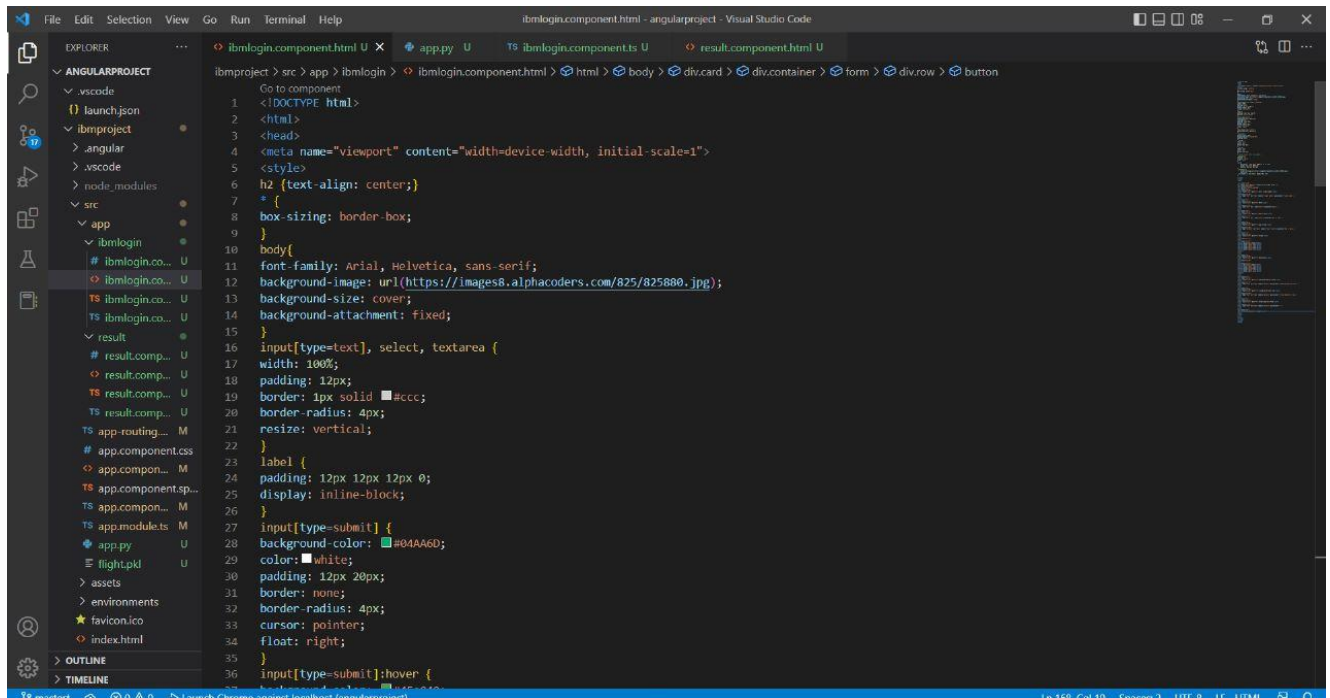
SPRINT-3:

- Importing source code from IBM Watson
- Creating HTML Pages
- Creating Dashboard using HTML/CSS
- Create web app and Hosting in falsk
- Testing web app

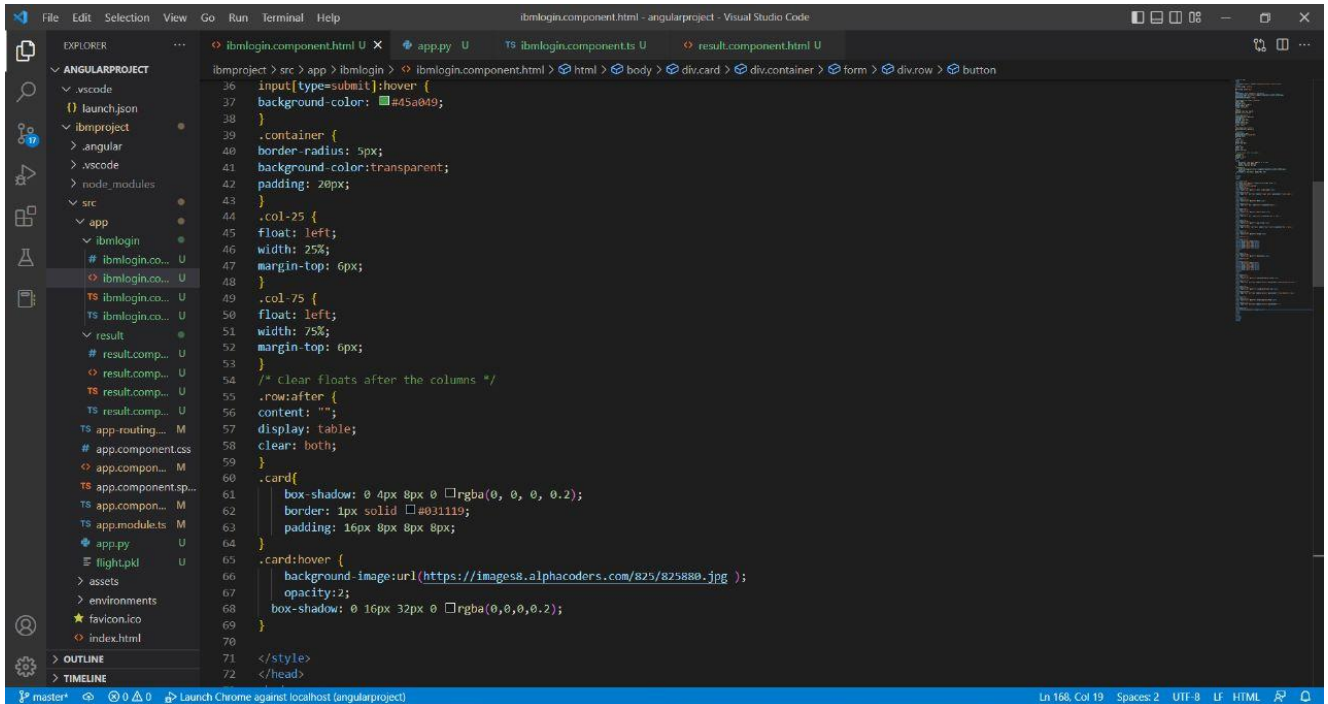
Creating Dashboard using HTML/CSS:

Frontend Dashboard is created using HTML/CSS,

Result as web page like,



```
Go to component
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta name="viewport" content="width=device-width, initial-scale=1">
5 <style>
6 h2 {text-align: center;}
7 * {
8   box-sizing: border-box;
9 }
10 body{
11   font-family: Arial, Helvetica, sans-serif;
12   background-image: url(https://images8.alphacoders.com/825/825880.jpg);
13   background-size: cover;
14   background-attachment: fixed;
15 }
16 input[type=text], select, textarea {
17   width: 100%;
18   padding: 12px;
19   border: 1px solid #ccc;
20   border-radius: 4px;
21   resize: vertical;
22 }
23 label {
24   padding: 12px 12px 12px 0;
25   display: inline-block;
26 }
27 input[type=submit] {
28   background-color: #04AA6D;
29   color: white;
30   padding: 12px 20px;
31   border: none;
32   border-radius: 4px;
33   cursor: pointer;
34   float: right;
35 }
36 input[type=submit]:hover {
37   background-color: #038B5B;
38 }
```



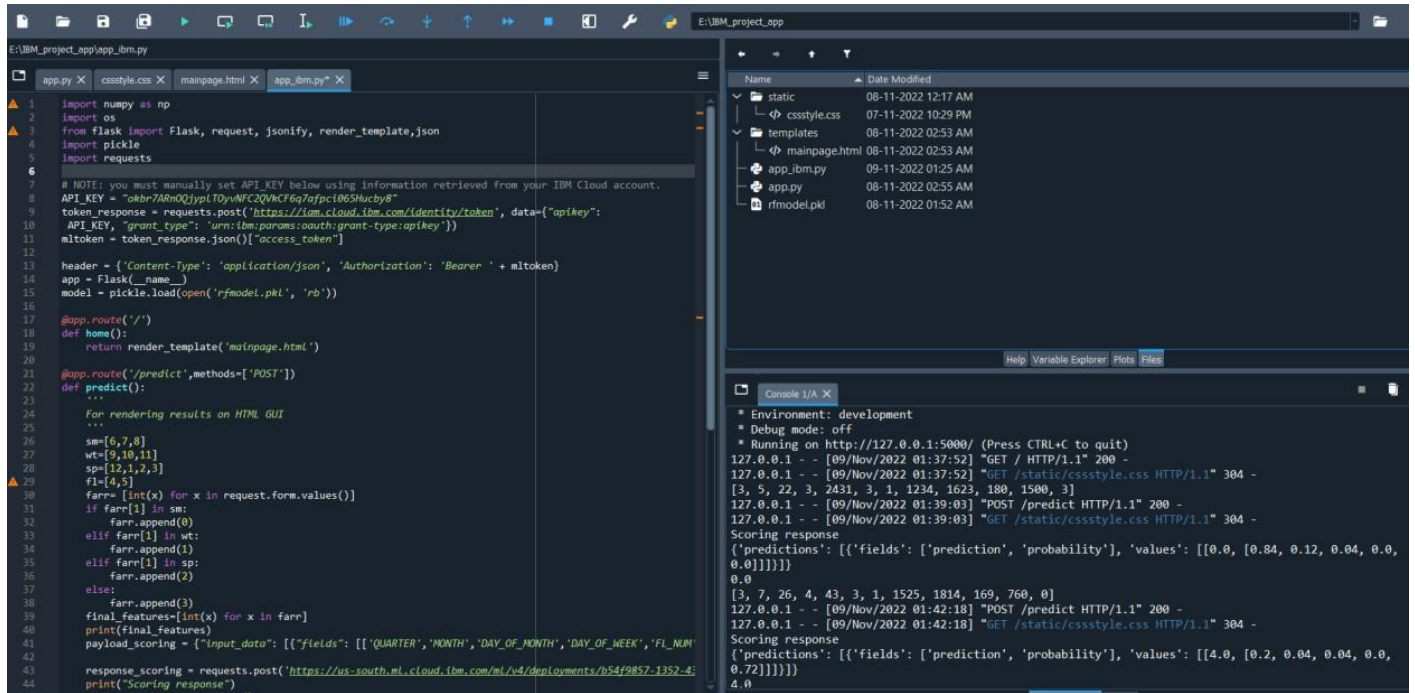
Create web app and Hosting in falsk:

First thing, need to create directory as follow,

Name	Date Modified
static	08-11-2022 12:17 AM
├─ cssstyle.css	07-11-2022 10:29 PM
templates	08-11-2022 02:53 AM
├─ mainpage.html	08-11-2022 02:53 AM
app_ibm.py	09-11-2022 01:25 AM
app.py	08-11-2022 02:55 AM
rfmodel.pkl	08-11-2022 01:52 AM

Then, code the required logic in app.py file with API connection , request and response code.

Spyder IDE looks like,



Run the app.py file.

Localhost url is displayed in console, copy and paste in browser then search it , frond end HTML?CSS page is displayed. Successfully created and hosted web app in flask.

If any error caused as flask in production mode, then

Set FLASK_ENV=Development,

Then run the app

Testing web app:

Enter the data on the required fields,

app.component.html

Prediction of flight delay

Enter flight Number

Month

Day of month

Day of week

Origin

Destination

Scheduled Departure Time

Scheduled Arrival Time

Actual Departure Time

Submit

Testing the web app while entering the values

app.component.html

Prediction of flight delay

Enter flight Number

Month

Day of month

Day of week

Origin

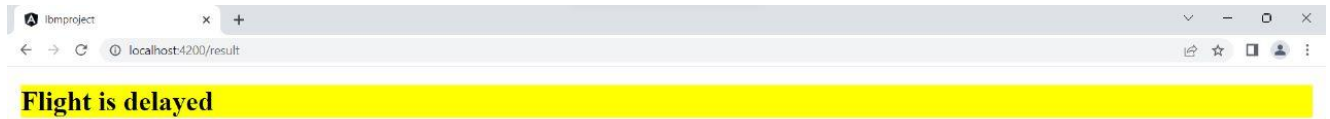
Destination

Scheduled Departure Time

Scheduled Arrival Time

Actual Departure Time

Submit



Output is Predicted By ML Model Successfully

