

PROJECT DEVELOPMENT PHASE

PROJECT DEVELOPMENT DELIVERY OF SPRINT IV

DATE	19 November 2022
PROJECT NAME	Airlines &data analytics for aviation industry
TEAM ID	PNT2022TMID46908

Coding:

```
# import module
```

```
import requests
```

```
from bs4 import BeautifulSoup
```

```
# UDF for get HTML code
```

```
# from URL
```

```

def get_html(Airline_code, Flight_number, Date, Month, Year):

def getdata(url):

    r = requests.get(url)

    return r.text


# url

url = "https://www.flightstats.com/v2/flight-tracker/"+Airline_code + \

    "/" +Flight_number+"?year="+Year+"&month="+Month+"&date="+Date


# pass the url

# into getdata function

htmldata = getdata(url)

```

```
soup = BeautifulSoup(htmldata, 'html.parser')
```

```
return(soup)
```

```
# Get Flight number
```

```
# from Html code
```

```
def flight_no(soup):
```

```
    Flight_no = ""
```

```
    # Find div tag with
```

```
    # unique class name
```

```
    for i in soup.find("div", class_="ticket__FlightNumberContainer-s1rrbl5o-4 hgbvHg"):
```

```

        Flight_no = Flight_no + (i.get_text()) + " "

    return (Flight_no)

# Get Airport name
# from HTML code

def airport(soup):

    Airport_name = []

    # Find div tag with

    # unique class name

    for i in soup.find_all("div", class_="text-helper__TextHelper-s8bko4a-0 CPamx"):

        Airport_name.append(i.get_text())

```

```
return (Airport_name)
```

```
# get status
```

```
# from HTML code
```

```
def status(soup, Airport_list):
```

```
    Time_status = []
```

```
    Airport_List = []
```

```
    Status_str = []
```

```
    Gate = []
```

```
    Gate_no = []
```

```
# Find div tag with
```

```
# unique class name
```

```
# to get Gate number
```

```
for data in soup.find_all("div", class_="ticket_TGBLabel-s1rrbl5o-15 gcbyEH text-  
helper_TextHelper-s8bko4a-0 dfeqpK"):
```

```
    Gate.append(data.get_text())
```

```
for data in soup.find_all("div", class_="ticket_TGBValue-s1rrbl5o-16 icyRae text-  
helper_TextHelper-s8bko4a-0 cCfBRT"):
```

```
    Gate_no.append(data.get_text())
```

```
# Get status from
```

```
# html code
```

```
for i in soup.find_all("div", class_="text-helper__TextHelper-s8bko4a-0 bcmzUJ"):
```

```
Status_str.append(i.get_text())
```

```
for i in soup.find_all("div", class_="text-helper__TextHelper-s8bko4a-0 cCfBRT"):
```

```
Time_status.append(i.get_text())
```

```
# traverse the Data
```

```
# from scraping data
```

```
for item in range(4):
```

```
if item == 0:
```

```
    print(Airport_list[0])
```

```
if item == 2:
```

```
    print("")
```

```
    print(Airport_list[1])
```

```
print(Status_str[item] + " : " + Time_status[item])
```

```
print(Gate[item] + " : " + Gate_no[item])
```

```
for item in range(len(Gate)):
```

```
print(Gate[item] + " : " + Gate_no[item])
```

```
# Driver code
```

```
if __name__ == '__main__':
```

```
# Input Data from geek
```

```
Airline_code = 'G8'
```

```
Flight_number = '134'
```

```
Date = '23'
```

```
Month = '10'
```



```
Year = '2020'
```

```
# Calling the get_html
```

```
# with argument
```

```
# function calling
```

```
soup = get_html(Airline_code, Flight_number, Date, Month, Year)
```

```
print("Flight number : ", flight_no(soup))
```

```
Airport_list = airport(soup)
```

```
status(soup, Airport_list)
```

Output:

Flight number : G8 134 GoAir

Jay Prakash Narayan International Airport

Scheduled : 21:00 IST

Terminal : N/A

Estimated : 21:00 IST

Gate : N/A

Indira Gandhi International Airport

Scheduled : 22:40 IST

Terminal : T2

Estimated : 22:40 IST

Gate : 205

Terminal : N/A

Gate : N/A

Terminal : T2

Gate : 205