

# PROJECT DEVELOPMENT PHASE

## PROJECT DEVELOPMENT DELIVERY OF SPRINT III

|              |  |
|--------------|--|
| DATE         | 12 Novmber 2022                                |
| PROJECT NAME | Airlines &data analytics for aviation industry |
| TEAM ID      | PTN2022TMID46908                               |

### Coding:

Extracting the price of flights between two selected dates

# Choose the two dates

# in this format

x = "2020-03-10"

y = "2020-03-16"

a = int(x[8:10])

b = int(y[8:10])

if a > b:

    m = a - b

    t = b

```
else:
```

```
    m = b - a
```

```
    t = a
```

```
print(t)
```

```
low_price = ""
```

```
url_final = 'https://paytm.com/flights'
```

```
data = {}
```

```
for i in range(t, t + m+1):
```

```
    url = 'https://paytm.com/flights/flightSearch/BBI-\
```

```
Bhubaneshwar/DEL-Delhi/1/0/0/E/2020-03-'+str(i)
```

```
# Locations can be changed on
```

```
# the above statement
```

```
print(url)
```

```
date = "2019-12-" + str(i)
```

```
# enables the script to run properly without
```

```
# opening the chrome browser.
```

```
chrome_options = Options()
```

```
chrome_options.add_argument("--disable-gpu")
```

```
chrome_options.add_argument("--headless")
```

```
driver = webdriver.Chrome(executable_path = '/path/to/chromedriver',  
                           options=chrome_options)
```

```
driver.implicitly_wait(20)
```

```
driver.get(url)
```

```
g = driver.find_element_by_xpath("//div[@class='_2gMo']")
```

```
price = g.text
```

```
x = price[0]
```

```
y = price[2:5]
```

```
z = str(x)+str(y)
```

```
p = int(z)
```

```
print(p)
```

```
prices=[]
```

```
if p <= 2000:
```

```
    data[date] = p
```

```
for i in data:
```

```
low_price += str(i) + ": Rs." + str(data[i]) + "\n"
```

```
print(low_price)
```

Sending the notification if there are cheap flights available through an email using SMTP

```
if len(data) != 0:
```

```
    dp = 2000
```

```
    server = smtplib.SMTP('smtp.gmail.com',587)
```

```
    server.ehlo()
```

```
    server.starttls()
```

```
    server.ehlo()
```

```
    server.login('your_email_id','your_password')
```

```
    subject = "Flight price for BBI-DEL has fallen\
```

```
below Rs. " + str(dp)
```

```
body = "Hey Akash! \n The price of BBI-DEL on PayTm \
```

```
has fallen down below Rs." + str(dp) + ".\n So,\
```

```
hurry up & check: " + url_final+"\n\n\n The prices of\
```

```
flight below Rs.2000 for the following days are\
```

```
:\n\n" + low_price
```

```
msg = f"Subject: {subject} \n\n {body}"
```

```

server.sendmail(

    # email ids where you want to

    # send the notification

    'email_id_1',

    'email_id_2',

    msg

)

print("HEY,EMAIL HAS BEEN SENT SUCCESSFULLY.")

server.quit()

```

Entire Code:

```

from selenium import webdriver

from selenium.webdriver.common.by import By

from selenium.webdriver.support.ui import WebDriverWait

from selenium.webdriver.support import expected_conditions as EC

from selenium.webdriver.chrome.options import Options

from selenium.common.exceptions import TimeoutException

from selenium.webdriver.common.keys import Keys

import smtplib

```

```
# Choose the two dates
```

```
# in this format
```

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x = "2020-03-10"
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```
y = "2020-03-16"
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```
a = int(x[8:10])
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b = int(y[8:10])
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if a > b:
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    m = a - b
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    t = b
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```
else:
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    m = b - a
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    t = a
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print(t)
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low_price = ""
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for i in range(t, t + m+1):
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    url = 'https://paytm.com/flights/flightSearch/BBI-\
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    Bhubaneswar/DEL-Delhi/1/0/0/E/2020-03-'+str(i)
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```
# Locations can be changed on
# the above statement
print(url)

date = "2019-12-" + str(i)

# enables the script to run properly without
# opening the chrome browser.
chrome_options = Options()
chrome_options.add_argument("--disable-gpu")

chrome_options.add_argument("--headless")

driver = webdriver.Chrome(executable_path = '/path/to/chromedriver',
                          options=chrome_options)

driver.implicitly_wait(20)

driver.get(url)

g = driver.find_element_by_xpath("//div[@class='_2gMo']")
price = g.text
```

```

x = price[0]

y = price[2:5]

z = str(x)+str

p = int(z)

print(p)


prices=[]

if p <= 2000:

    data[date] = p


for i in data:

    low_price += str(i) + ": Rs." + str(data[i]) + "\n"


print(low_price)


if len(data) != 0:


    dp = 2000

    server = smtplib.SMTP('smtp.gmail.com',587)

    server.ehlo()

    server.starttls()

    server.ehlo()


    server.login('your_email_id','your_password')

```



```

subject = "Flight price for BBI-DEL has fallen\
below Rs. " + str(dp)

body = "Hey Akash! \n The price of BBI-DEL on PayTm \
has fallen down below Rs." + str(dp) + ".\n So,\
hurry up & check: " + url_final+"\n\n\n The prices of\
flight below Rs.2000 for the following days are\
:\n\n" + low_price

msg = f"Subject: {subject} \n\n {body}"

server.sendmail(
    # email ids where you want to
    # send the notification
    'email_id_1',
    'email_id_2',
    msg
)

print("HEY,EMAIL HAS BEEN SENT SUCCESSFULLY.")

server.quit()

```