# Arjuna Group's Python and Wise Sessions SSN College of Engineering Kalavakkam- 603110

Python Project 2021-2022

# **IRCTC Automation**

# **Project Students:**

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# **Project Mentors:**

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# **Project Duration:**

1 week

## **Project Summary:**

IRCTC is the Indian Railways Catering and Touring Corporation which has been the sole Passenger Railway service Corporation in India connecting various parts of India. The bookings for its ticket is done online through the https://www.irctc.co.in website. If you are a frequent visitor and in a hurry, it would be wise to save the from and to once to use it as many times in future. So we have created a IRCTC automation using selenium that searches the website, fills out all the details and just asks for the date at last given the data once.

## **Objective:**

- 1. Get the user data, on the departing and arriving station, type of ticket and apply concessions if any.
- 2. Using Selenium, open IRCTC and fill out the details.
- 3. Get the travel data during Run-time and automate until the choice of price step.

#### **Used Libraries:**

1. Selenium (external library):

Selenium has methods to open browser, point the cursor, mimic keyboard and mouse input operation on the website thereby automating browser. It is primarily used to test the behaviour of a web application program across various browsers and devices for any errors and the efficacy of the program. Selenium can work across a plethora of high

level language like python, java etc. It makes uses of the Selenium webdriver and browser specific WebDrivers to automate a website.

## 2. time (in-built module):

It provides various time related functions. It is based on the ctime module from C language. It can be used to schedule the Python operation based on the time by halting a process until the specified time of its commencement.

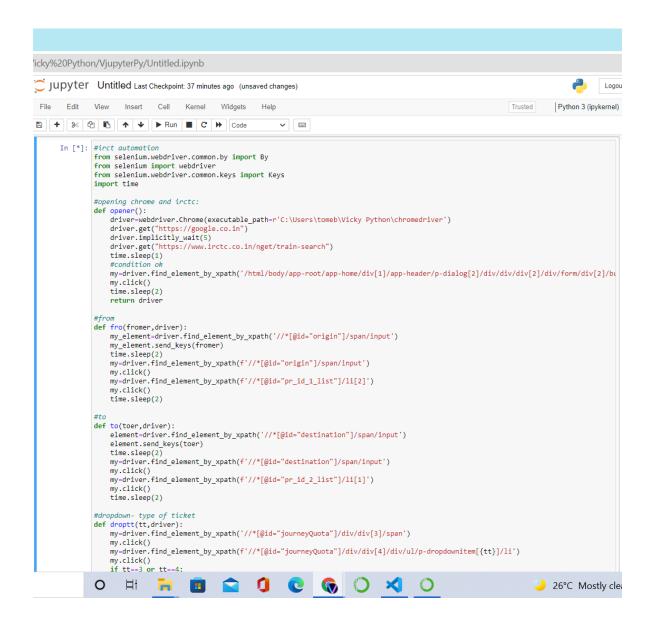
## **Pre-requisites:**

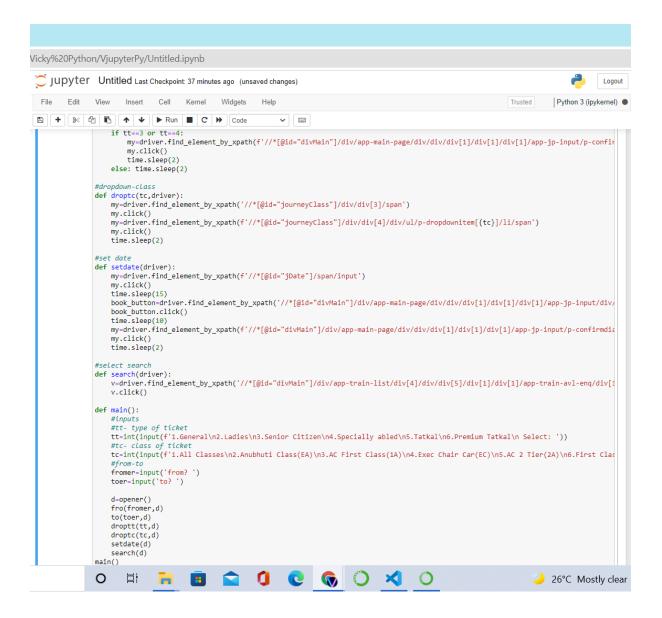
The user should give the data on, the department and arriving station, the class of ticket and the concession to be applied.

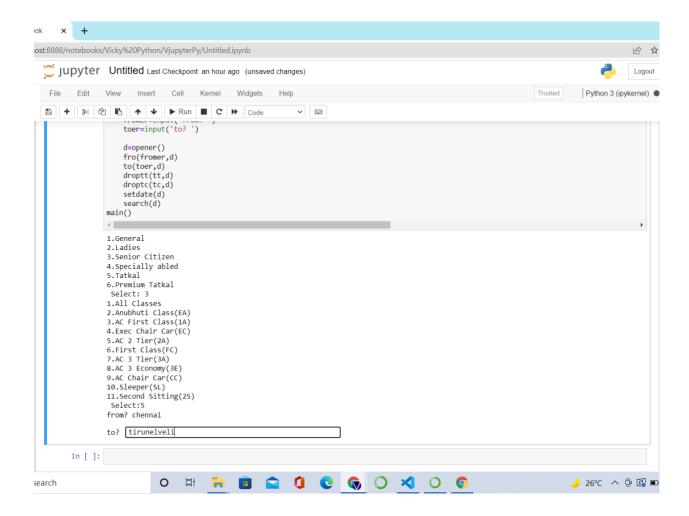
## **Implementation:**

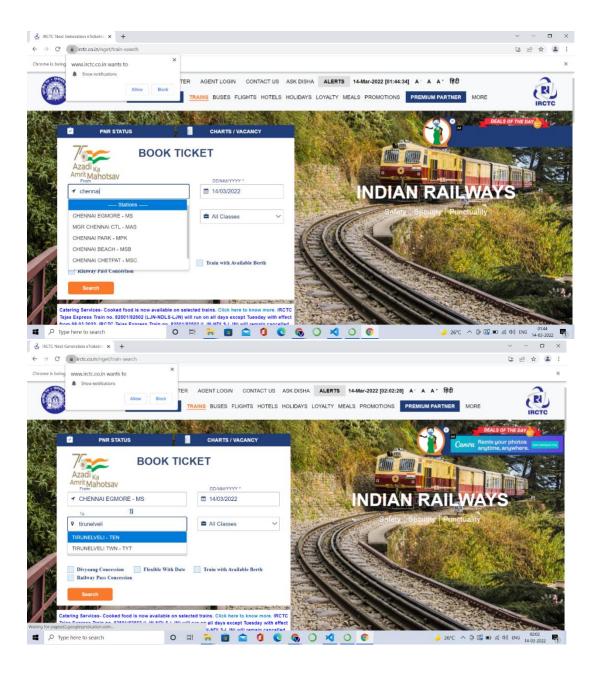
- Firstly, get the data, the departing and arriving station, type of ticket and the class of ticket etc.
- Then, open Chrome using Selenium and Chromedriver, using the driver.get(\*) open irctc website.
- Using find\_element\_by\_xpath(\*) point the cursor.
- Using send\_keys(\*) and click() functions input the acquired data on the website.
- Wait for user to select date during runtime and click on submit.

#### **OUTPUT SCREEN-SHOTS:**









#### **IRCTC** Automation

