Test automation:

1 ● Access https://nbl.one, validate if there is at least 1 quest.

from selenium import webdriver  
  
driver=webdriver.Chrome("C:\Program Files\Google\Chrome\Application\chrome.exe")  
  
  
driver.get("https://nbl.one")  
driver.find\_element\_by\_link\_text("Quests").click()  
driver.find\_element\_by\_link\_text("What can I take into the Examination Room for the IELTS Exam?").click()

2● Access https://nby.la/rdJuXp and try booking the skylift

from selenium import webdriver  
  
driver=webdriver.Chrome("C:\Program Files\Google\Chrome\Application\chrome.exe")  
  
  
driver.get(" https://nby.la/rdJuXp")  
driver.find\_element\_by\_xpath("/html/body").click()  
driver.find\_element\_by\_xpath("/html/body").click()  
driver.find\_element\_by\_link\_text("Confirm FREE Booking").click()  
driver.find\_element\_by\_xpath("//\*[@id="modal"]/div[2]/div[2]/section/div[2]/div/input").send\_keys("9381338711")  
driver.find\_element\_by\_xpath("//\*[@id="modal"]/div[2]/div[2]/section/div[3]/button").click()

3● Access https://nbl.one/listings, then scrape all the cards for title, price and link

associated to each card.

from selenium import webdriver  
driver=webdriver.Chrome("C:\Program Files\Google\Chrome\Application\chrome.exe")  
  
driver.find\_element\_by\_name("Skylifts").click()  
driver.find\_element\_by\_name("Campus Hiring").click()  
driver.find\_element\_by\_name("Chitkara University Campus Hiring-Software Test Engineer Internship").click()  
driver.find\_element\_by\_name("View").click()

Test planning

Creating a Test Plan for any software involves the following methods:

Product Analysis: In product Analysis we mainly focus on the entire details . ⎝ In our case this is a shopping place website . ⎝ Our end users are going to use the website for buying and selling items . ⎝ Main purpose of our website is to be a Digital marketing . ⎝ What kind of servers , hardware and software associated with it .

Designing Test Strategy : In test strategy we focus on how , what , when and by whom the features are going to be tested . There are Two types of testing .

Manual Testing : where an experienced individual with deep knowledge and end user prospective will test the application , this includes ( black box testing and white box testing ).

Automation Testing : Where an individual with scripting and framework knowledge will test with help of scripts to implement test cases as fast as possible . Since we are testing on a marketplace website , we should focus on :

Unit testing : white box testing .

Integration testing : Black box testing .

Api testing which is part of integration testing : Analyzes an application program interface (API) to verify it fulfills its expected functionality, security, performance and reliability. System Testing .

Defining Objectives: In objectives we mainly discuss why we are testing the software , what are the reasons . What goals we want to accomplish by testing the software . -> Since our marketplace is an consumer end website , we must check all the functionality before rolling out the application to make the customer experience as smooth as possible . This includes : Testing GUI to see if there is no glitch . Checking all the functionality for smooth customer experience . Checking the performance standards Like : Status of item is being updated as soon as transaction is being done . No lags , crash or bugs causing systems to throttle . Also one of the main objective will be to achieve the standard benchmark for every functionality .

Establish Test Criteria : In test criteria we mainly focus on the minimum benchmark to be achieved or the test will be suspended .

Suspension Criteria : While testing our marketplace and running tests , if we get an error or only 50 percent of the test cases pass . Than we have to suspend the testing and let developers fix the bugs .

Exit Criteria : While testing our marketplace and running tests , if we see that our 80 percent of the test cases are passed than according to governing standards the functionality is ok for public use . Although we should always try to achieve 100 percent test cases .

Planning Resource Allocation : In this we specify the requirements of resources required for successfully testing the functionalities . This includes : Number of team members ( Depends upon the type of Functionalities we are checking ).

Hardware and tools : Mainly specifies the sandbox environments we require while testing and tools like Selenium to automate the process .

Planning Setup of Test Environment: In this we manily focus on determining on what kind of devices are our applications gonna be used on . ⎝ Since our marketplace website is gonna be available on a real browser with all the updates and functionality , it is important as an tester to test our website on real devices . ⎝ This will give us an end user prospective on how our users gonna be experience our website and how we as a provider want them to use our product . It is an really important part of testing .

Determine test schedule and estimation : In this we focus on distributing the tasks in smaller segments and finishing the tasks before the deadlines . ⎝ Since our marketplace needs to be roll out in 6 months , we have to distribute the tasks in segments where each required functionality can be tested in required time and with efficiency .

Key factors : Employee availability . Number of working days . Number of functionality to be tested .

Risk factor : Deadlines , affects on customer experience etc .

Establish Test Deliverables: In this we basically refers to the list of deliverables required before , during and after the testing have been done .

This includes: Before Testing : Test plan : How we are gonna implement the test plan for our marketplace . Test design : How the test is designed to check the functionalities in order .

During Testing : Test Scripts : what scripts are used for the purpose of the testing .

Simulators and emulators : What kind of devices were used for testing example sandboxes etc .

Test Data : This includes the data accumulated during the testing phase .

Error and execution logs : The logs and data generated for errors during the testing .

After Testing : Test Results : This includes the results of the tests which were conducted .

Defect Reports : This includes list / bugs of the defected functionalities .

Release Notes : This basically includes the documentation which is released with an new update which basically includes the data of what was updated and what new features were added / removed and what bugs were fixed .