**NYBULA**

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It is a brief summary of the product that is being tested Outline all the functions at high and low level as asked.

The product will be used by the students,teachers and all other educational institutes. The main purpose of this site is that it will be an official and reliable link between students and the company members. It is an open query box for everyone who makes an account on this. Here you can post your query and comments and someone who knows the answer will be answering it.After knowing about the product we will install all the programs and drivers needed for the testing and taking all the precaution.

For this testing we firstly open our eclipse and install all the needed programs and drivers such as selenium, chrome web driver etc.

***Initially, Chrome should be closed i.e. No Chrome Tab should be opened, as we need our program to start chrome with our existing default chrome profile. Make sure you have no chrome tab opened or it will throw an Exception.***

**1.Validate if there is at least 1 quest.**

We will intialize a chrome web driver with a certain special chrome option in which we can open a profile which is already login into original chrome web.then we will provide our login credentials into eclipse code then we will provide the website in which we have to check the given, and we will provide findElements() command as after seeing the website we came to know take there are Quest card which will provide us the number of the quests and it will return a list. After this we will provide time element too because the website will take sometime to load if we dont provide time element it will show us 0 quest so after giving time element.we will execute this and it will show that 10 Quests are present.

**2.Try booking the Skylift.**

For this we will intialize a chrome web driver with special chrome option by which we can operate the original login id here. We will provide findElements() commands and will provide time element then we find the booking button element by findElements() and providing its Xpath. After getting the element we click on that element to book our skylift.

*Code Link: https://github.com/Nakulkhippal/Nybula-TestingAssignment/blob/main/BookSkylift.java*

**3.Scrape all the cards for title ,price and link associated to each card.**

For this we will intialize a chrome web driver with special chrome option by which we can open our chrome with existing default login profile and provide time to wait for website to load using implicitWait .Then, wel provide findElements() commands and will get cards and we create a class cardData to store data of each card in cardData objects.

After this, we will make a list to store card elements and a set as in the set no elements gets repeated so that we can check if our card gets repeated. Thereafter, we will cast driver into java script executor as we have to scroll the website page. Then we will scroll our website page bit by bit, scrolling it will pickup number of cards which are displayed in the website’s page and after this every card it detected was put in the list which was made earlier.

Now to process each card, we iterate through whole list card by card and will check if the card is already processed . If the card is in the set then it will continue and if not it will add the card into our list,After this breakdown of element data occurs into Title, Price and Link,And then we will pass all this data to cardData object and it will show us details of card i.e Title, Price and link. So by this we scrape data which was needed for this testing.