

Lab 5: Selenium Python API for element interaction

INFT 1207 – Dr. Sukhwant Sagar

Setting up the Python and Selenium IDE Project

This lab assignment will be completed by pairs of students. Submissions by individual students will not be accepted under normal circumstances. The intent is that the two students to work together.

The group must follow the same naming format for both python file and Selenium IDE project. Create a new Selenium IDE project. Name the project as **Lab5_GroupN** but replace N with your actual group number. The name of the test automation python file should be **Lab5_firstname1_firstname2.py**. Failure to follow this naming format makes it more difficult for me to download and grade your solution, so attention to this detail is appreciated.

Program Requirements:

Let's do shopping for our female friends and relatives. You demo website is <https://magento.softwaretestingboard.com/> . It's a full-featured e-commerce website simulator. Here you can test anything from a simple login page to product selection and add/edit your shopping cart. It covers the complete online shopping workflow.

You are required to **write Selenium test automation scripts** to execute the shopping process as given below and finally assert the shopping cart page by clicking on cart icon. The shopping cart should show the dress selected by you and your partner. There is no need to proceed with creating an account and to process payment.

The steps for your automation scripts are:

1. Click on Women -> Tops -> Hoodies & Sweatshirts
2. Select the appropriate Style, Size, Price Range, Color and Material. For e.g.: Style: Pullover, Size: M, Price: \$50.00 - \$59.99, Color: Purple, Material: Polyester [You may have to use xpath if you don't get right locator for the selection]

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3. Select any single dress (if there are multiple depending upon your selection) and click on Add to cart [You may have to switch to frame]
4. Click the “cart icon”.
5. Click on the “Proceed to Checkout” Button.
6. Assert the “Order summary”. Your shopping cart should show the dress selected by you.
7. Finally close the browser

Make sure to use **test- case fixtures** for your coding file and **add appropriate comments** in the program. The professor should be made aware of each selection of web element.

You may create multiple test cases here to automate the selection of each section of the page. I would leave that up to the creativity of the team. But **I would not want to see a single test case for the entire shopping process.**

In your video recording, other than stating your work and explaining the code, you are required to show your use case on the webpage - <https://magento.softwaretestingboard.com/> - before starting the code explanation. This will help the professor to understand the steps taken to complete the shopping process in the program.

General Requirements

- Include an opening comment with your full name, the full names on the student(s) you are working with, the name of the program, the date, and a short description.
- Follow the course style guide! Use descriptive names for variables, constants, arrays, functions, etc. that follow our naming conventions.
- **Attach the zipped project to the assignment folder.**
- **Each of the lab partners should submit a video recording (sharing screen) explaining first the use case of your product selection and then code along with its explanation. The lab partners should also mention the distribution of tasks**

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for this lab. Both these requirements would be considered for the teamwork component of the rubric.

Things to Explore:

You are welcome to explore beyond the mandatory requirements if you wish.