**Automate an E-Commerce Web Application**

**DESCRIPTION:**

To automate a real-world web application

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Flipkart is an e-commerce platform, and they have launched a new feature to search for a product in a particular category. Once the product is searched, Flipkart displays it as a list of product items. To enhance the performance of the application, Flipkart has implemented lazy loading. It displays only a few products that can come on the screen.

To display or load more products, the user must scroll down.

As a Test Engineer, you are expected to test this feature end-to-end.

**Detailed Scenario:**

* Navigate to the Flipkart homepage (<https://www.flipkart.com/>)
* Determine a page load time with a performance test
* Search for a product, say, “iPhone 13” under the “Mobile” category
* Check if the images are loaded and visible till the screen height only
* Check if the page has a scroll feature
* Check the frequency at which the content will be refreshed while scrolling
* Verify that the image is downloaded just before the user scrolls to its position and gets displayed in time
* Verify that it navigates to the bottom of the page
* Check whether different browsers and screen resolutions render it the same way

**Tools Required**:

1. Selenium Library
2. Eclipse IDE
3. TestNG Library
4. Maven

**Required Steps :**

1.It would launch the Chrome browser and maximize the window.

**2.**Navigate to the Flipkart website and perform Login operation.

***Note:****You can change the username and password values or leave them as is. Since it’s just a demo, so you don’t need the credentials.*

**3.** Now, it’ll search for the book keyword which we choose as <*Selenium*>. Change it if you want to.

**4.** In this step, the code will click to view the search results.

**5.** We’ll now fetch the list of books displayed and select the last one using the XPath locator given below. You change the XPath to choose a different book.