

## Question 03

### 1. Identifying the scope of the project

First, we need to figure out what parts of the shopping site we want to automate. As for the given scenario we might work on logging in, registering, searching for products, adding items to the cart, checking out, and viewing order history.

### 2. Planning for testing

After identifying the scope, we would know what are the components that need to be tested with what amount of timeframe and resources. Since it is possible to plan that way to conduct testing by preparing test case documents, identifying tools that need for testing such as selenium, and JavaScript, preparing test data etc.

### 3. Script writing and modifying

After the planning phase ends, and when it comes to the next phase, we may plan different test environments to deploy the web application to start testing and then it is possible to do test script writing and modification based on the prepared test cases that they prepared during the planning phase. Also, in order to create the scripts, the developers might need to make configurations in their projects.

### 5 Bug Reporting and fixing

The next phase is where you will be executing those scripts and may report any variations from the expected outcome. Within the scripts, we may use some report generators like TestNG frameworks and may get the necessary screenshots and would be able to generate a clear report from the scripts themselves.

### 6. Handle Errors and Unexpected Scenarios

Handling build errors, version errors and recovery options if needed should be considered.

### 7. Regularly Review and Maintain the Framework

When the system is being continuously updated, there might be need of maintaining the scripts and reviewing them once again. (Xpath changes when the new components are being added).