

NAGWA SOFTWARE TESTING EXAM

The code workflow:

Task preparation:

1- Create a new Maven project in your preferred IDE.

This step creates a new Maven project that will manage our dependencies and build process. It will allow us to easily add dependencies like Selenium and TestNG to our project, and will automate the build process.

2- Add the Selenium and TestNG dependencies to your pom.xml file.

This step adds the Selenium and TestNG dependencies to our project, so we can use them to automate our tests. Selenium is a web driver that allows us to interact with web pages, while TestNG is a testing framework that allows us to write and run tests.

Task:

1- The first step is to create a new Java class named "TestBase" to initialize the WebDriver object and create method to open the Nagwa website using the ChromeDriver before Test and create "CloseDriver" method to close the driver after Test

2- The next step is to create a new Java class named "PageBase" in which all Pages will inherit from and we initialize the elements of page factory

3- The third step is to create a new Page Object class named "HomePage" to handle the operations on the home page. This class has two methods: selectLanguage and search. The selectLanguage method selects a language to open the home page while the search method uses the search icon to search for a lesson.

4- The forth step is to create another Page Object class named "SearchResults" to handle the operations on the search results page. This class has one method: chooseFromSearchResults. The chooseFromSearchResults method clicks on the second lesson in the search results.

5- The fifth Step is to create another page object class named "LessonPage" to handle the operations on LessonPage this class has one method WorkSheetsPreview method clicks on the Preview button in the worksheet section

6- The final step is to create the last Page Object class named "WorksheetPage" to handle the operations on the worksheet page. This class has one method

CountNoOFQuestions. CountNoOFQuestions method counts the number of questions and prints the count.

7- Finally, in the TestScenario, we create an object from each class call the Page Object methods in sequence to automate the scenario. The code workflow starts by opening the Nagwa website and selecting a language. Then, it searches for a lesson and clicks on the second lesson in the search results. Finally, it clicks on the Preview button in the worksheet section, counts the number of questions, and prints the count.

The Page Object Model design pattern makes the code more readable, maintainable, and reusable. Each Page Object class handles the operations on a specific page of the website, making it easy to modify or update the code without affecting other parts of the script.