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Assignments Module – 5 (Selenium IDE)

• What is Automation Testing?

Test automation is the use of software to control the execution of tests, the comparison of actual outcomes to predicted outcomes, the setting up of test preconditions, and other test control and test reporting functions. • Commonly, test automation involves automating a manual process already in place that uses a formalized testing process. • Although manual tests may find many defects in a software application, it is a laborious and time consuming process. • In addition it may not be effective in finding certain classes of defects. • Test automation is a process of writing a computer program to do testing that would otherwise need to be done manually. • Once tests have been automated, they can be run quickly.

• Which Are The Browsers Supported By Selenium Ide?

Ans- Mozilla

Firefox

Google Chrome

Microsoft Edge

Safari

opera

• What are the benefits of Automation Testing?

Ans- Speed–Automation Scripts run very fast when compared to human users • Reliable–Tests perform precisely the same operations each time they are run, there by eliminating human error. • Repeatable–We can test how the application reacts after repeated execution of the same operation • Comprehensive–We can build a suite of tests that covers every feature in our application • Reusable–We can reuse tests on different versions of an application, even if the user interface changes. • Automate your testing procedure when you have lot of regression work. • Automate your load testing work for creating virtual users to check load capacity of your application

• What are the advantages of Selenium?

Open Source • Supports all browsers like IE, Firefox, Mozilla, Safari • Supports all Operating Systems. • Supports all programming languages Java,Ruby,C# and Python. • Run multiple tests at a time

• Why testers should opt for Selenium and not QTP?

Open source, free to use, and free of charge

Highly extensible

Can run tests across different browsers

Supports various operating systems

Supports mobile devices

Can execute tests while the browser is minimized

Can execute tests in parallel.

Data-driven testing is easier to perform because it has built-in global and local data tables.

Can access controls within the browser(such as the Favorites bar, Address bar, Back and Forward buttons, etc.)