Software Testing Assignment-5 Module–5 (Selenium IDE)

(1) What is Automation Testing?

➢ Automation testing is a software testing technique where software tools and scripts are used to automate the process of validating the functionality of software and ensuring it meets requirements.

(2) Which Are The Browsers Supported By Selenium Ide?

➢ Selenium IDE (Integrated Development Environment) is a browser extension used for automating web applications. Currently browser supported are as bellow,

- Firefox
- Chrome
- Edge
- Safari

(3) What are the benefits of Automation Testing?

- ➢ Automation testing benefits
- • 70% faster than the manual testing
- • Wider test coverage of application features
- • Reliable in results
- • Ensure Consistency
- • Saves Time and Cost
- • Improves accuracy
- • Human Intervention is not required while execution
- • Increases Efficiency
- • Better speed in executing tests
- • Re-usable test scripts
- • Test Frequently and thoroughly
- • More cycle of execution can be achieved through automation
- • Early time to market

(4) What are the advantages of Selenium?

- ➢ **Cross-Browser Compatibility:** Selenium supports multiple browsers like Chrome, Firefox, Safari, and Internet Explorer, making it easier to test web applications on different platforms.
- • **Platform Independence:** Selenium is a cross-platform tool, which means it can be used on different operating systems like Windows, Linux, and macOS.

- **Support for Multiple Programming Languages:** Selenium supports multiple programming languages, including Java, C#, Python, Ruby, and others. This allows developers and testers to choose the language they are most comfortable with.

- **Large Community and Resources:** Selenium has a large and active community. This means there is a wealth of documentation, tutorials, and forums available, making it easier for users to find help and solutions to common problems.

- **Integration with Other Tools:** Selenium can be easily integrated with other tools and frameworks, such as TestNG, JUnit, Maven, and Jenkins, enhancing its capabilities and making it suitable for various testing needs.

- **Flexibility and Extensibility:** Selenium can be extended for various functionalities through its APIs, making it adaptable to different testing scenarios.

- **Support for Parallel Execution:** Selenium allows for the parallel execution of test scripts, which can significantly reduce the overall test execution time.

(5) Why testers should opt for Selenium and not QTP?

> ➢ Testers might opt for Selenium over QTP/UFT for several reasons:

- **Cost-effectiveness:** Selenium is free and open-source.
- **Flexibility**: Supports multiple programming languages and integrates with various tools.
- **Broad compatibility**: Offers extensive cross-browser and cross-platform testing.
- **Community support**: Benefits from a large and active user community.

However, the choice between Selenium and QTP/UFT will ultimately depend on the specific needs of the project, budget constraints, and the technical skills of the testing team. Both tools have their strengths and are suited for different testing environments and requirements.

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