**QA Knowledge Questions**

Is automation testing white box or black box?

Automation testing can be both black and white box type of testing depending on the scenarios in which automation is performed. If the tester tests the application without knowing the low-level design or code of the application, it is considered the Black box testing. But if the automated test scripts need access to the database details that are used in the application, then it can be considered as white box testing as well

What is the definition of Regression Testing vs Functional Testing?

**Regression Testing** is a type of testing that is done to verify that a code change in the software does not impact the existing functionality of the product. It ensures that previous functionality of the application works effectively, and new changes have not introduced new bugs.

**Functional Testing** is a type of software testing that validates the software system against the functional requirements/specifications. The purpose of Functional tests is to test each function of the software application, by providing appropriate input, verifying the output against the Functional requirements.

What is the difference between Test Plan and Test Case?

A test plan is a comprehensive document (blueprint) that lays out all major activities associated with a particular testing project, usually created by Test Managers. A test plan includes Scope of the project, Goals and objectives, schedule, estimation, resources etc. for completing the testing

Whereas a test case is only designed to test a particular scenario. It is document that describes the steps (actions) taken to carry out the testing. It checks -what needs to be tested, how it will be tested, who will do the testing, and what is the expected results.

What are the components of a test case?

The main components of a test case include:

* Test name (Title)
* Test ID
* Description
* Prerequisites (if exists)
* Assumption
* Test steps
* Expected results.
* Actual Results
* Test Status (Pass/Fail)

What are the components in writing a defect?

The main components of defect report include:

* Defect ID
* Title
* Description of the defect
* Feature/Functionality (if available)
* Test Case Name (if available)
* Reproducible defect or not
* Status of the defect
* Severity level
* Priority of the defect
* Tester Name
* Date of testing of the defect
* Build Version in which the defect was found
* Assigned to (developer name)
* Relevant screenshots/recordings

How do you identify the test cases which are suitable for automation?

There are many criteria’s to Identifying the test cases to automate.

* Test case executed with different sets of data.
* Test case executed with different browsers.
* Test case executed with different environments.
* Test case executed with complex business logic
* Test case executed with a different set of users
* Test case involves a large amount of data
* Test case has any dependency
* Test case requires Special data