

Ch-5 Testing Tools

★ Manual testing is a testing process that is carried out manually in order to find defects without the usage of automation tools or automation scripting.

★ Limitations

- (i) Slow and costly
- (ii) Do not scale well
- (iii) Not consistent or Repeatable
- (iv) Difficult to manage

★ Automation testing is a process of changing any manual test case into test scripts by using automation tools and scripting or programming language

★ Benefit of A.T

- (i) Faster Feedback cycle
- (ii) Repeatable
- (iii) Reusable
- (iv) Better Quality Software.
- (v) Reliable.
- (vi) High accuracy
- (vii) Fast

★ Two types of testing tools

- ① Static Test Tools → Coverage analyzers, Flow analyzers
- ② Dynamic Test Tools → Emulator, Test driver.

★ Test tools characteristics

- ① Testing tools should be easy to use.
- ② Tools should provide complete code coverage and create test documentation in various format .pdf, .html, etc
- ③ Testing tools should support GUI based test preparation
- ④ Should adopt underlying hardware.

★ Test automation Frameworks.

→ Guidelines which can be followed to create test cases.



① Data Driven Automation Framework

→ test data and test script are separated which makes it easier to maintain and update the test data at any point of time without affecting test scripts.

② Keyword Driven Automation Frameworks

→ test logic is divided into Keywords and functions

③ Modular Automation Framework

→ application is divided into different modules which can be tested independently.

④ Hybrid Automation Framework

→ more than one framework is used to achieve the desired objectives.

★ Benefits of test automation Framework

- ① Flexibility
- ② Reduced manual interaction.
- ③ Efficiency
- ④ Easy maintenance

★ Tools

- ① Selenium
- ② Appium
- ③ Robotium
- ④ cucumber
- ⑤ Apache JMeter

★ Installation steps [Selenium]

- ① Download + install latest version Java JDK
- ② Download + install latest version of eclipse
- ③ While install select ~~Java~~ Eclipse IDE for Java Developers' and click install.
- ④ Download zip of selenium and Extract it in one (jar files) folder