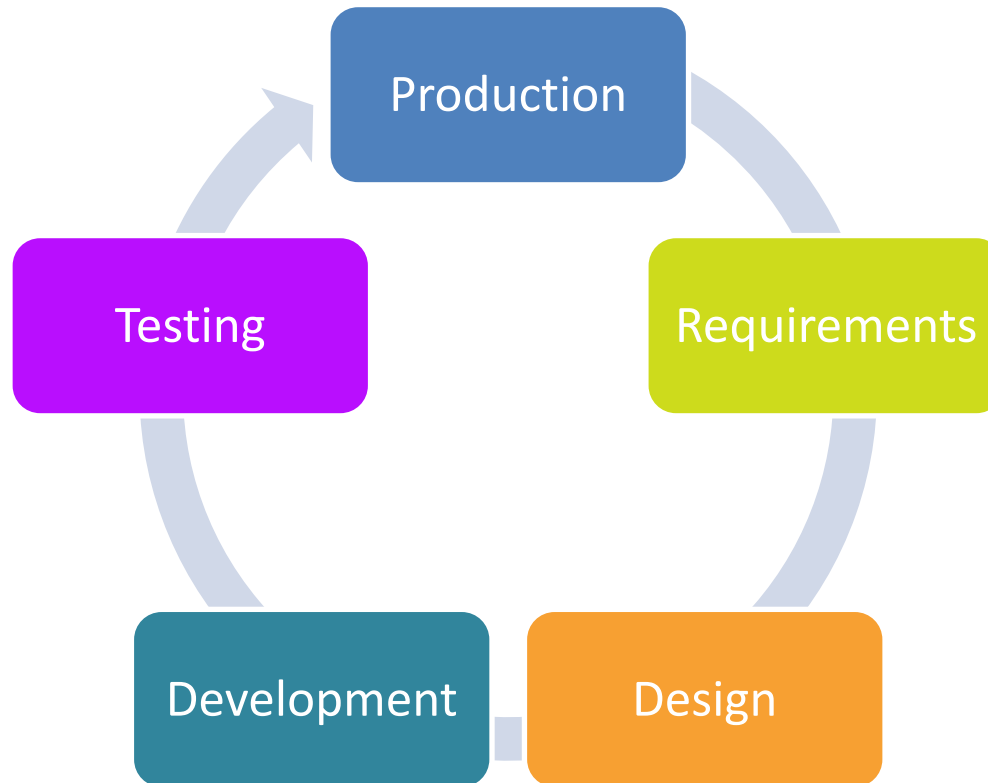


Continuous Testing – Test Automation

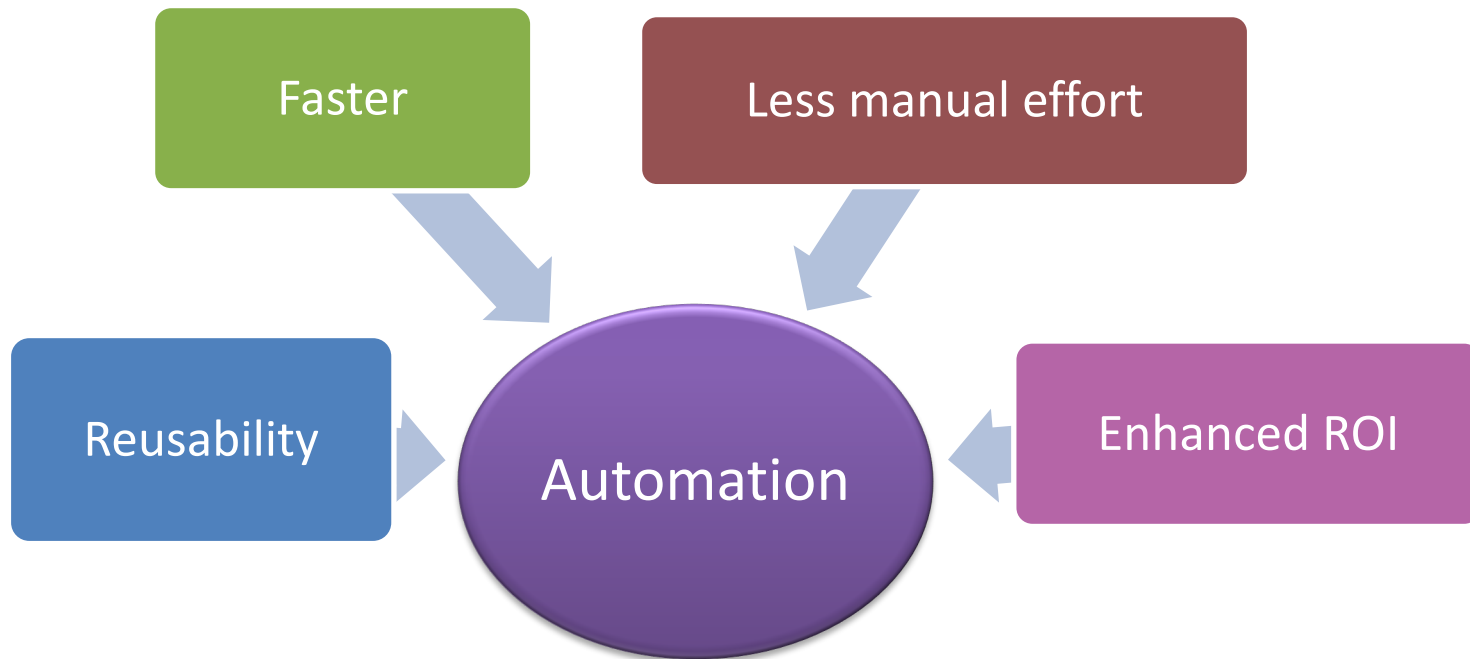


Prepared By:
Anil Mundra,
Arpit Mishra

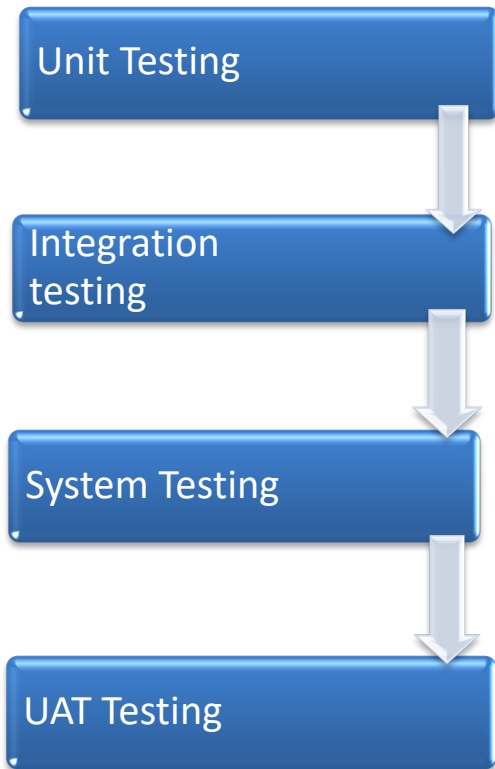
- SDLC is a process followed for a software project, within a software organization. It consists of a detailed plan describing how to develop, maintain, replace and alter or enhance specific software.



- **Software Testing** : (<Expected Result > == <Actual Result>) ? **Pass** : **Bug**
- **Test Automation** : Automation testing is a Software testing technique to automatically test and compare the actual outcome with the expected outcome.



- **SUT:** refers to a system that is being tested for correct operation. ... The term is used mostly in software testing.
- **Standalone:** runs locally on the device and doesn't require anything else to be functional.
- **Web Applications:** an application program that is stored on a remote server and delivered over the Internet through a browser interface.
- **Enterprise Level Applications:** large software system platform designed to operate in a corporate environment such as business or government. EAs are complex, scalable, component-based, distributed and mission critical.
- **Mobile Applications:** most commonly referred to as an app, is a type of application software designed to run on a mobile device, such as a smartphone or tablet computer.



Functional

- Selenium(Java/JS)
- UFT(VB Script)
- Codeless(Tosca, Katalon Studios)

API

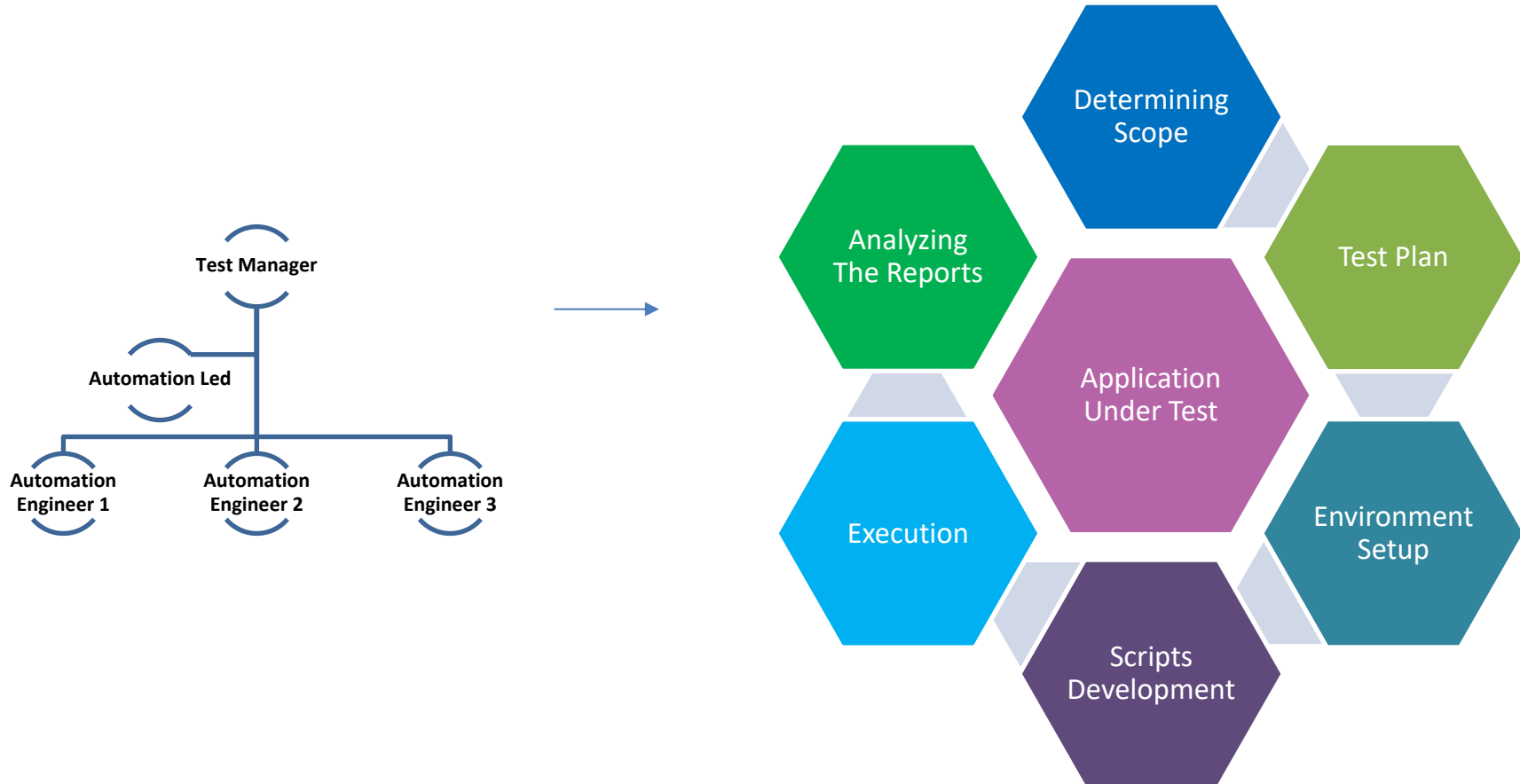
- Postman
- Rest Assured
- Ready API

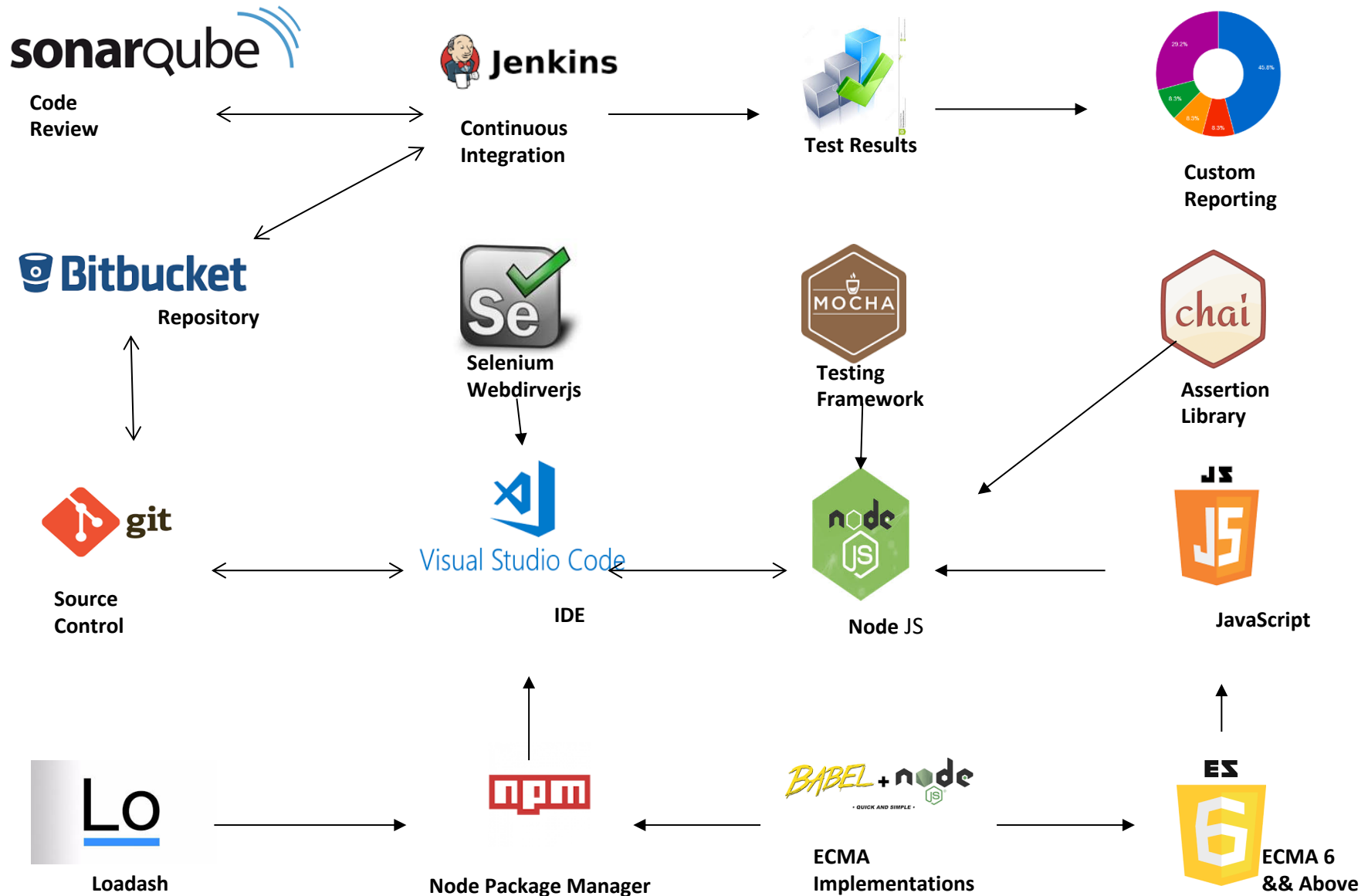
Performance

- Load Runner
- JMeter

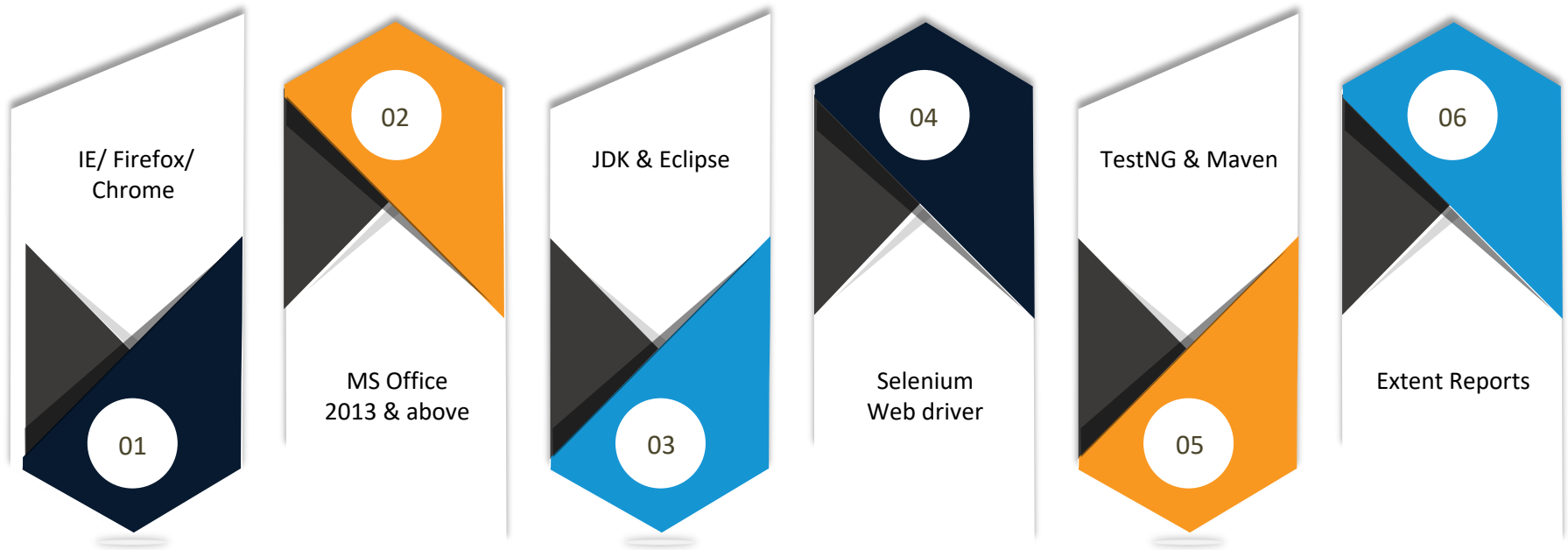
Mobile

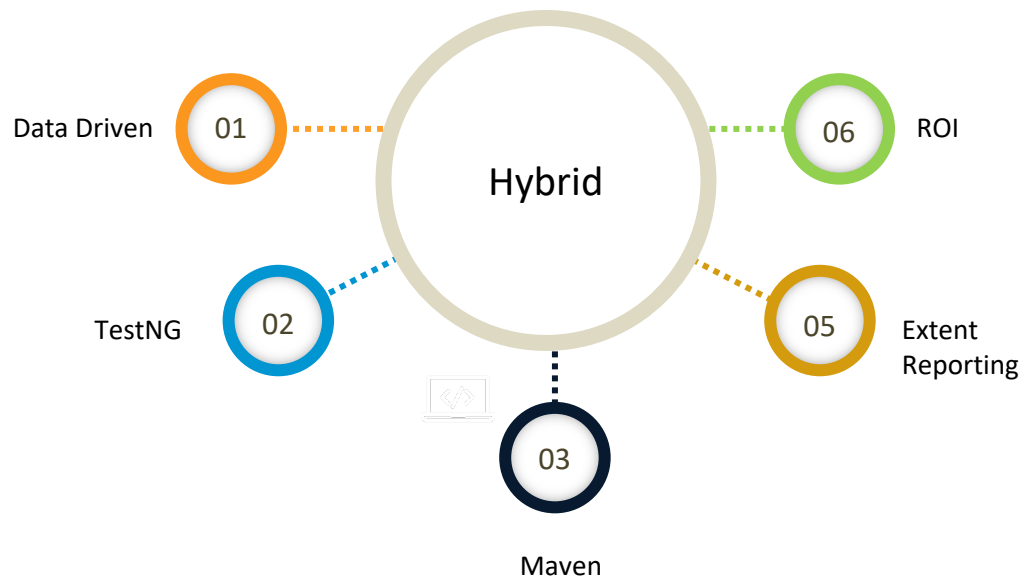
- Appium
- Monkey Talk





- **Strong Programing Skills:** Java, Python, C# or Java Script
- **Good Database Knowledge:** Oracle, MySQL, SQL Server or Postgres.
- **Good understanding & Problem Solving Skills.**
- **Understanding of Agile, Devops and CI/CD process.**
- **Understanding of web services.**





- Hybrid Driven Framework
 - Data
 - TestNG
 - Maven Build
- Flexible Data Management
- Lesser Code Maintenance
- Lesser technical Knowledge to work, automate & execute flows.
- Reporting Granularity
 - Test Suite / Test Case / Test Step / Test Step details of reporting

Concept



Application



Webpages



Actions



Framework



Driver Script



Maven Dependencies



Test Data



Extent Reporting



Methodology

Flow(s) Creation

- Identification of Functions required for flow
- Giving Data input to the functions



Execution

- Flow is executed as directed by testing.xml file mentioned through driver script



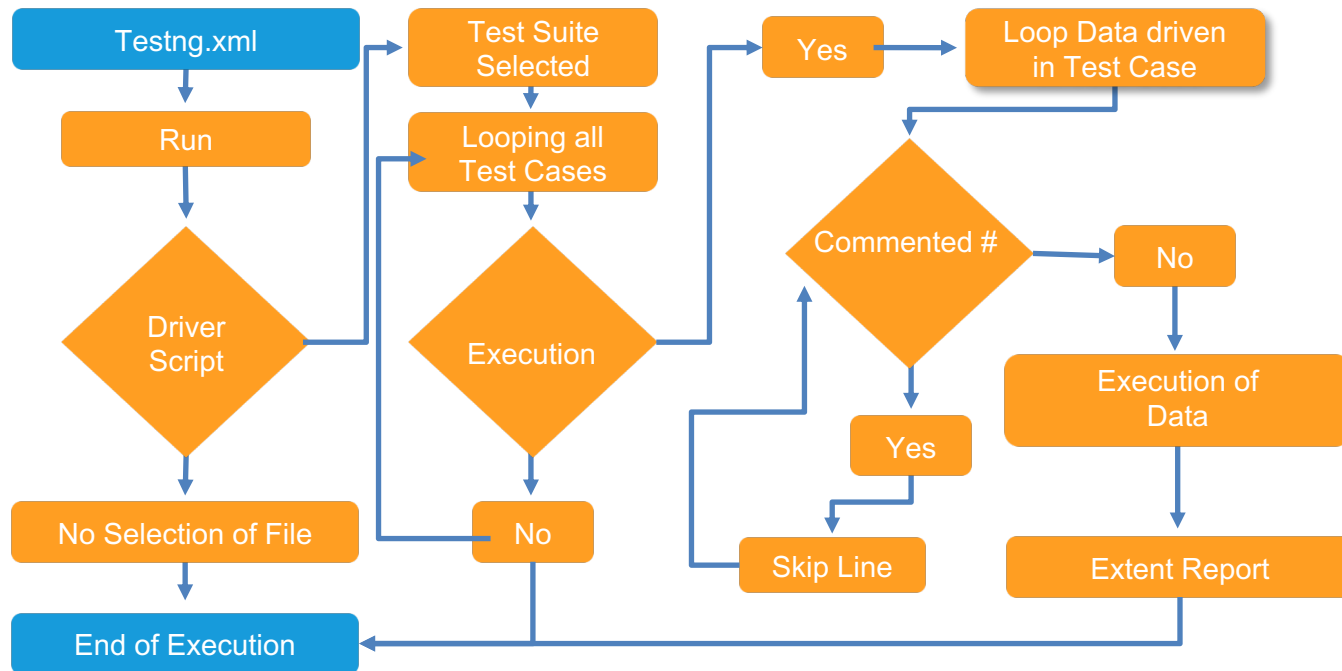
Driver Script

- Excel File Location
- Using Data providers to execute the flow multiple times
- Arranging the functions sequentially
- Calls the driver script class from suite testing.xml file

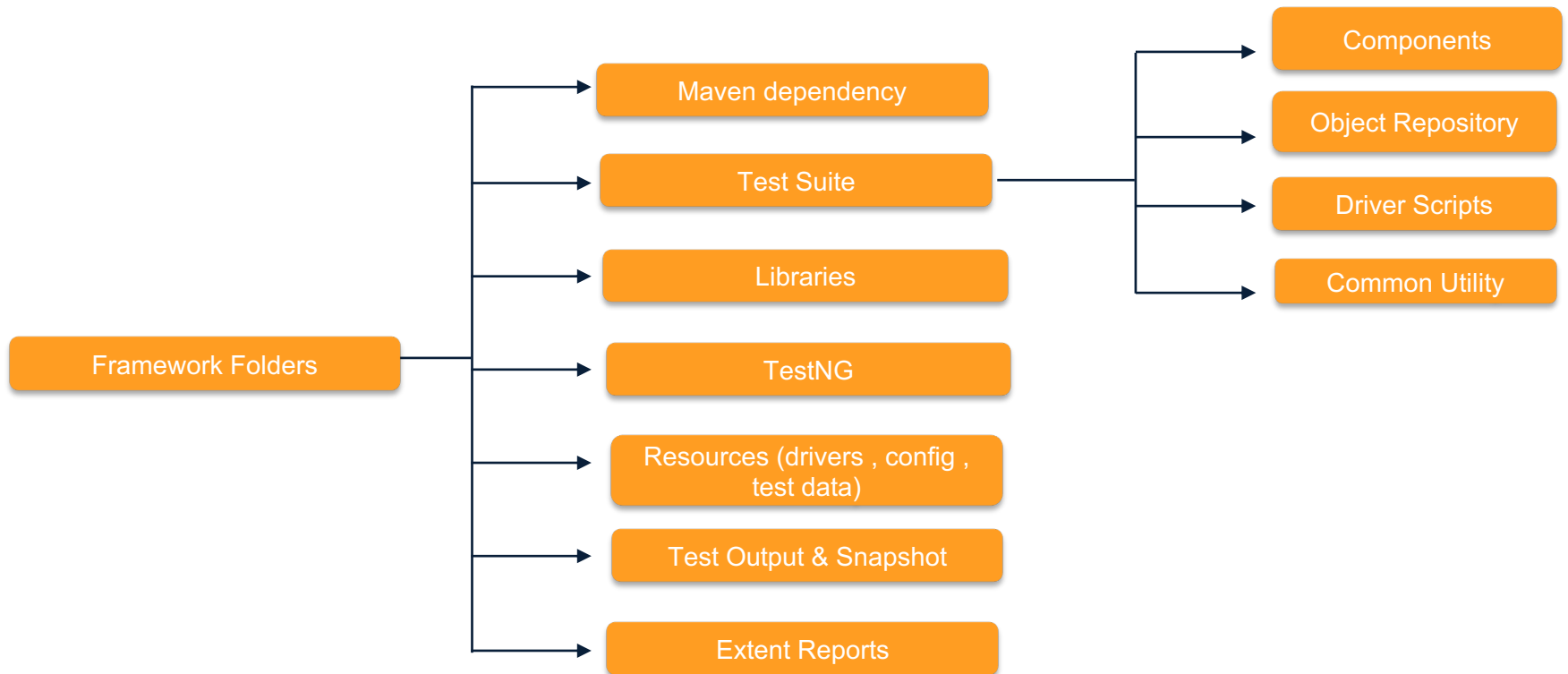


Extent Reporting

Test Suite / Test Case / Test Step / Test Step Details



Framework Structure





Working with Framework

Creation of Test Case

Designed functional test cases for ready to automate.



Execution of Test Case

By Passing the input datasheet to Driver Script, we execute the flow.



Creation of Test Suite

Designed a flexible way to group multiple test cases using testing.



Reports

Generating the reports with the help extent report.

Thank You

