

# THE WORLD OF AUTOMATION



## SOFTWARE TESTING SYLLABUS

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ACCREDITED BY



# MANUAL TESTING

## 1. Basic of Software Testing

1. What is Software
2. What is Testing
3. What is Software Testing
4. Resource involved in Software Development
5. Software quality Assurance

## 2. Software Development life Cycle

1. Life Cycle Development
2. Life Cycle Testing

## 3. Software Development Model

1. Waterfall Model
2. Fish Model
3. V-Model
4. Agile Methodology

## 4. Architecture of Agile Methodology

## 5. Basic Type of Testing

### 1. Integration Testing

- 1)Front End Integration
- b) Back End Integration

### Approaches

- a)Top down Approaches
- b) Bottom Down Approaches
- c) Bi-directional Approaches

### 2. Sanity Testing

- a) Basic Core Functionality
- b) Tab Validation
- c) Link Validation
- d) Page Validation
- e) GUI Validation

### 3. System and Function Testing

- a) Function Testing
- b) Usability Testing
- c) Security Testing
- d) Performance Testing

## 6. Function Testing

1. Behaviour Coverage
2. I/P Domain Coverage
3. Error Handling Coverage
4. Backend Coverage
5. Service Level Coverage
6. Calculation Base Coverage

## 7. Non-Function Testing

1. Recovery Testing
2. Compability Testing
3. Configuration Testing
4. Inter system Testing
5. Installation Testing
6. Globalization Testing
7. Sanitation Testing

## 8. Retesting

## 9. Regression Testing

## 10. How to Write T.C and Test scenario

## 11. User Acceptance Testing

1. Alpha Testing
2. Beta Testing

## 12. Importance at

1. Error
2. Detect
3. Bug
4. Issue

### 13. Hot Fix or Production Issue

### 16. Bug Life Cycle

### 14. Testing Terminologies

1. Monkey Testing
2. Exploratory Testing
3. Ad-Hoc Testing

### 17. About Jira Tool Information

### 15. Software Testing Life Cycle

### 18. Traceability matrix

## AUTOMATION TESTING

### Core Java

#### 1. Basic Java

1. Variable and data types
2. Keywords and Identifiers
3. Methods
4. Types of Variable
5. Constructor
6. Control Statements
7. Loops

#### 2. OOPs-Object Oriented Programming

1. Inheritance
2. This and Super Keyword
3. Access Specifies
4. Polymorphism
5. Abstract Class and Concrete Class
6. Interface and Implementation class
7. Generalization
8. Casting
9. Encapsulation --> Selenium Framework
10. Abstraction

#### Chapter 3

1. String class --vvp
2. Array
3. Exception Handling
4. Collection
5. Map
6. Pattern Programs
7. Logical Programs

# Selenium

## Chapter 1

1. Disadvantages of Manual Testing
2. Advantages of Automation
3. Advantages of Selenium
4. Disadvantages of Selenium
5. Selenium flavours
6. Open Browser
7. Selenium Architecture
8. Web Driver and its Methods.
9. Basic html coding.
10. Locators.
11. Web Element and its Methods.

## Chapter 2

1. List box
2. Screenshot.
3. Parameterization- Excel sheet
4. I frame
5. Popups
6. Multiple Link/Elements--> Relative X path
7. Autosuggestions
8. Web Table
9. Action class
10. Customized List box
11. Different types of exception in Selenium
12. Dynamic Elements--> Dynamic X path
13. Scroll Up/Down
14. Synchronization (Diff Types of waits in Selenium)--> Interview Questions

## Chapter 3

1. Selenium Framework/Types of Framework
2. Example without DDF
3. Example with DDF
4. POM (Page Object Module) with page factory
5. POM with DDF
6. Test NG // TDD // BDD-Cucumber
  - a. Advantages
  - b. Annotations
  - c. Keywords
  - d. Email able report
  - e. Test-Suite
  - f. Assertion/ Verification
  - g. Failed XML file
  - h. Disable TC Execution from Suite and Test Class
  - i. Grouping of Test Cases
  - j. Parallel execution
  - k. Multi Browser Testing/C.T
  - l. Multi Browser Testing with parallel execution
  - m. Test NG Data provider-->Assignment
  - n. Difference between Test NG and J Unit
7. POM\_DDF\_Test NG example
8. POM\_DDF\_Test NG\_Base Class\_Utility example
9. Capture screenshot of only failed TC & Property file
10. Maven Project
11. Framework explanation
12. Automation flow/Automation Life Cycle
13. Investment Banking(Kite Zerodha) project scenarios(TC)
14. Interview Questions
15. Github-Pull/Push code
16. Logical programs