

Duration - 90hrs

## What is Full Stack Software Testing?

Software testing is the process of evaluating and verifying that a software product or application does what it is supposed to do. The benefits of testing include preventing bugs, reducing development costs and improving performance.

## Syllabus

### Manual Testing

1. Software Testing Principles
2. Software Development lifecycle
3. Software Testing Lifecycle
4. Type of Software testing
5. Levels of testing
6. Testing Techniques
7. Test Management
8. Defect Tracking
9. Test case development
10. Types of Manual
11. SDLC models
12. Types of Functional
13. TestCase design

# Web Automation Testing

## Java Programming

1. Installation JDK
2. Global Local Variable, Data type, Operators
3. Class
4. Methods
5. Access Modifiers
6. Static
7. Strings Class
8. If Conditions
9. Else if Conditions
10. Switch Cases
11. For loop
12. For each loop, While loop
13. Method Overloading
14. Constructor
15. Final Keyword
16. Scanner Class
17. Inheritance
18. Polymorphism
19. Encapsulation
20. Abstraction
21. Interface
22. This Keyword
23. Super Keyword
24. Exception Handling
25. File Handling reading & Writing
26. xlsx
27. xls

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- 28. Properties
- 29. Arrays
- 30. Two dim Array
- 31. List
- 32. Array List
- 33. Set
- 34. HashSet
- 35. Map
- 36. Hashmap
- 37. Hashtable

### TestNg

- Annotations
- Listners
- Assert
- Soft Assert
- Reports
- Parallel Execution
- Suite Execution

## Automation Using Selenium

1. Locators - ID
2. Locators - Name
3. Locators - Class Name
4. Locators – LinkText
5. Locators – Partial Link Text
6. Locators - xpath [Basic & Adv]
7. Locators - Css [Basic & Adv]
8. TextBox
9. CheckBox

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10. Buttons
11. Radio Buttons
12. Getting Multiple Elements in a Browser using List
13. Thread.sleep
14. implicitlyWait
15. WebDriverWait
16. Browser Back, Forward, Refresh
17. ScreenShot
18. Browser close
19. Browser Quit
20. Alert
21. AutoSuggest
22. Upload File
23. Download File
24. Scroll
25. Multiple Browser/Windows
26. Keyboard Actions
27. Right Click
28. DropDowns
29. WebTable
30. Frames
31. Drag and Drop
32. MouseHover
33. Calendar

#### Frame Work

- Extent Reports
- Page Object Model Framework
- GIT HUB
- Maven
- Jenkins

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# Appium

1. Software Setup Android studio, xcode, Nodejs, Npm , Appium
2. ADB commands
3. Emulator setup & Real device setup
4. Android Locators
5. Scrolling
6. Swiping
7. Tap
8. click
9. Drag n Drop
10. Screen shot
11. Switching between apps
12. Web View
13. Hybrid and Native
14. Network simulation
15. Longpress
16. Handling Notifications
17. Handling otp
18. Mobile browser chrome
19. iOS Simulator Setup & Real devices
20. IDB commands
21. iOS Locators
22. Scrolling
23. Swiping
24. Tap
25. click
26. Drag n Drop
27. Screen shot
28. Web View
29. Hybrid and Native
30. Mobile browser Safari

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## Cloud Integration

- **Browser Stack**

## Framework Development

- **Github**

## Post Man

- **Postman installation**
- **Collections**
- **CRUD Operation using POSTMAN**
- **Parametering in Postman**

## Rest Assured

1. **CRUD Operation GET**
2. **CRUD Operation POST**
3. **CRUD Operation PUT**
4. **CRUD Operation PATCH**
5. **CRUD Operation DEL**
6. **Assertions on Json Response Body and Headers through Automated code**
7. **Parsing the Json Response body using JsonPath class**
8. **Integrating the Multiple API's with common Json response values**
9. **Building End to End Automation using GET, POST and PUT Http Methods**
10. **TestNG Assertions in validating the responses**
11. **Understanding Structure of Complex Nested Json and its array notations**
12. **Retrieving the Json Array Size and its elements using JsonPath**
13. **Understanding Headers**
14. **Authentication & Authorization**
15. **Serialization and Deserialization**
16. **Understand Request and Response Spec Builders in Rest Assured**
17. **Framework Development**

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