

# SOFTWARE TESTING

## Software Testing Introduction

- What is software testing and its importance
- Software testing market & opportunities
- Job roles in software testing
- How software testing is planned/aligned in the companies
- SDLC (Software Development Life Cycle) & STLC (Software Testing Life Cycle)
- Defect life cycle
- Verification, Validation and Assertions
- Types of software testing

## Functional Testing

- Introduction
- Integration Testing
- Smoke & Sanity Testing
- System Testing
- Regression Testing
- User Acceptance Testing
- Globalization & Localization Testing

## Non-Functional Testing

- Introduction
- Performance Testing
- Security Testing
- Usability Testing
- Compatibility Testing

## Testing Life Cycle and Strategies

- Introduction
- Test Strategy
- Workshop on Test Strategy
- Requirements
- Workshop on Requirements
- Test Plan
- Workshop on Test Plan
- Writing Testcases
- Workshop on Writing Testcases
- Priority & Severity of Tests
- Test Execution - Pre Module

## Test Execution

- Executing Testcases
- Workshop on Executing Testcases
- Sanity & Smoke Tests
- Test Execution Results & Reporting
- Re-Testing & Regression Testing

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## Bugs & Defects

- Defect Lifecycle
- Priority vs Severity of Defects
- More on Defects
- Workshop on Defects

## More info on Testing

- Test Cycle
- Unit Testing

## Test Management

- Introduction
- Test Management Overview
- Test Cases
- Test Cycles, Phase & Execution
- Test Management Tools & Products

## Testing Apps-UI

- Introduction
- Manual Testing
- Automation Testing Basics
- More Automation Testing Basics
- UI testing
- Automation of UI tests

## Testing Apps-API's

- Introduction
- API Refresher
- Example: Store App API
- API Testing Basics
- API Documentation and Specifications
- API Testing Tools

## Testing Apps-Mobile

- Introduction
- Mobile Testing
- Automation of Mobile Testing

## JavaScript, Installation of Nod.js and VS code

- What is Javascript and why Javascript?
- Variables
- Operators
- Conditional Statements
- Loops
- Functions
- Arrays
- Objects
- Async & Await
- Understanding the Document Object Model (DOM)
- Installation - Node.js & NPM
- Installation - VSCode

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## Automation Testing with Selenium

- Introduction
- Overview of Selenium and its use in automated testing
- Extensions to find Xpath & Identifiers in Selenium
- Install Firefox, Selenium WebDriver & few baby steps
- Webpage Interactions
- TC001
- Node.js Assertion in Selenium
- Advanced Assertions - Introduction to Chai
- Setting things in order - Modularization of the code
- Data-Driven Test Automation with Selenium WebDriver
- Working with JavaScript testing framework - Mocha
- Building Test Run Reports with Mocha
- Adding Screenshots to our Automation Reports with Mochawesome
- TC007 - End to End Test

## API Testing & Automation with SOAPUI

- Introduction
- SoapUI Installation & quick overview,
- Getting Started with a Project
- Getting Started with a Project using swagger definition
- Creating Tests from Requests
- More Assertions
- Exchanging API Response Data & Dynamic Assertions
- Introducing Groovy Programming in SoapUI
- Running Tests & Doing more with Groovy
- API test Automation with Advanced Groovy
- TestRunner & Reports in SoapUI

## Cross Browser Testing

- Introduction
- Module Introduction & what to expect
- Browser Tests & Cross Browser Testing
- Overview of BitBar
- Running Selenium Tests in Bitbar

## Performance Testing using JMeter

- Introduction
- Jmeter Installation
- Recording a JMeter Test
- Fixing the Recorded Test
- Adding Parameterization
- Running in CLI

## Test Management with Zephyr

- Introduction to gitpod.io
- Zephyr Enterprise Logistics & Installation
- Test Management with Zephyr Enterprise

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## **POSTMAN – API Testing and Test Automation**

- What is Postman?
- Why are we learning Postman?
- Getting started with Postman
- Parameters, Variables & Exchanging API Response Data
- Verifications & Validations with Postman
- Postman Collections
- Postman Automation, Newman & CLI

## **ChatGPT for Software Testers**

- Introduction to ChatGPT
- Generating Test Cases
- Writing Test Automation Scripts
- Bug Reporting and Documentation
- Test Data Generation
- Exploratory Testing Assistance
- Performance Testing Support
- API Testing using ChatGPT

## **Projects**

## **Interview Question & Answers**

## **Resume Preparation**

## **Mock Interviews**

**Any queries, write to us: [info@staunchcuil.com](mailto:info@staunchcuil.com)**