CODING CREATROS

Software Testing (Manual + Automation) Course Content

Module - 1: Introduction

- Overview of Software Companies
- Overview of Software Projects
- Interview Process for Testers
- Types of Jobs in IT companies
- Types of Teams
- Teams Collaboration
- Role Chart of Test Engineer

Module - 2: Software Development Life Cycle

- Overview of Software Engineering
- What is SDLC
- SDLC Phases
- Waterfall Model
- Advantages of Waterfall
- Dis-Advantages of Waterfall Model
- Spiral Model
- Introduction to Agile
- Agile Terminology
- Spring Overview
- Scrum
- Retrospective Meetings
- Backlog Grooming

Module - 3: Software Testing

- Introduction to Software Testing
- Principles of Software Testing Software
- Testing Life Cycle Bug Life Cycle Types
- of Software Testing Levels of Testing
- Functional Testing Non-Functional
- Testing Unit Testing Integration Testing
- System Testing User Acceptance
- Testing (UAT) Alpha and Beta Testing
- Positive Testing Negative Testing End-
- To-End Testing Maintenance Testing
- Exploratory and Ad-hoc Testing Smoke
- and Sanity Testing What is Regression
- Testing & When Do
- We Do?
- What is Retesting & When Do We Do?
- Manual Testing Methods
- Test Deliverables
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- **How To Write Test Strategy**
- **How To Write Test Plan**
- **How To Write Test Scenario**
- **Test Case Template With Explanation**
- **Bug Report Template**
- **Test Metrics**
- **Requirement Traceability Matrix – RTM**
- **Black Box Test Design Techniques**
- **Equivalence Partitioning Testing Technique**
- **Boundary Value Analysis Testing Technique**
- **Decision Table Test Design Technique**
- **State Transition Test Design Technique**
- **Localization Testing**
- **Bug Severity and Priority**
- **Defect Triage Process in Software Testing**
- **What is Testing in Production**
- **Test Estimation**
- **Test Report**
- **Test Strategy vs Test Plan**
- **Bug Tracking Tool Jira**

Module - 4: CORE JAVA

- **Java Basics**
- **Features of Java**
- **Variables and Data Types**
- **What is JRE, JVM, and JDK**

- **Operators**
- **Control Flow Statements**
- **Arrays**
- **Object-oriented programming**
- **Object and Class**
- **Method**
- **Constructor**
- **Static & this keywords**
- **Access Modifiers**
- **Inheritance**
- **Polymorphism**
- **Super Key Word**
- **Abstraction**
- **Encapsulation**
- **Type casting**
- **Interfaces**
- **String class**
- **Packages**
- **Exception Handling**
- **Introduction**
- **Pre-Defined Exceptions**
- **Try-Catch-Finally**
- **Throws, throw**
- **User Defined Exception examples**
- **Collection Framework**
- **Introduction**
- **Collection interface**
- **List interface and its classes**
- **Set interface and its classes**
- **Map interface and its classes**
- **Queue interface and its classes**

Module - 5: Automation Testing

- **Introduction**
- **What is automation testing?**
- **Advantages of Automation testing**
- **Types of Automation Tools**

Module - 6: Selenium

- **What is Selenium?**
- **Who developed Selenium?**
- **Advantages of Selenium**
- **Difference between Selenium and UFT**
- **Selenium Components**
- **Introduction to WebDriver & Comparison with Selenium RC**
- **Architecture of Selenium Webdriver**
- **How to install Eclipse?**
- **Configure Selenium WebDriver with Eclipse**
- **Working with different browser drivers**
- **First Selenium WebDriver Script**
- **Working with WebDriver methods**
- **Difference Between FindElement & FindElements**
- **Locators in Selenium**
- **Dynamic Xpath**
- **Dynamic CSS**
- **Handle drop-downs and WebTable**
- **Handle Alerts & Popups**

- **Handle Frames/Iframes**
- **Handle Windows**
- **Mouse Hover event in Selenium**
- **Right Click**
- **Double Click**
- **Introduction of wait Methods**
- **Use of Wait methods in selenium**
- **Types of Wait Methods**
- **Difference between Thread.sleep,ImplicitWati&ExplicitWait**
- **Capturing screenshots**
- **Capturing screenshot on failure test cases**
- **Handling Ajax events**
- **Handling Auto Suggestions**
- **Different Selenium Exceptions**
- **File upload and download**
- **Robot Class, Mouse Events**
- **Handling JavaScript in Selenium**
- **Configure Apache POI with Eclipse**
- **Workbook,Sheet,Row,Cell ,methods**
- **HSSFWorkbook .HSSFSheet,HSSFRow ,HSSFCell methods**
- **How to Read data from Excel file(XLS or XLSX)**
- **How to Write data to excel file**
- **Listeners in Selenium**
- **Stale Element Reference Exception in Selenium**
- **Headless Browser Testing**
- **Introduction to Selenium Frameworks**
- **Data-Driven Framework**
- **Keyword driver Framework**

- **Hybrid framework**
- **Page Object Model**
- **Selenium with TestNG**
- **TestNG Introduction**
- **Selenium with TestNG Sample Script**
- **TestNG Annotations**
- **Data-Driven Testing**
- **Running Tests in Parallel**
- **Multi-browser Testing**
- **Rerun Failed Tests**
- **Set Test Priority**
- **Dependency in TestNG**
- **Soft Assertion**
- **Timeouts in TestNG**
- **Extent Reports**
- **BUILD & CONTINUOUS INTEGRATION TOOLS**
- **How to Download and Install Maven Build Tool**
- **Creating Maven Selenium Project**
- **GIT Integration with Selenium**
- **How to download and Install Jenkins**
- **Execute TestNG Scripts in Jenkins**
- **Generating Reports after Test Execution**

- **Executing Maven Project in Jenkins**
- **Create and Execute Build in Jenkins Send**
- **Email report based on build status**
- **Selenium Continuous Integration with Jenkins Step by Step Guide**

Module - 7: Real-time Tools

- **Maven**
- **Git Hub**
- **Jenkins**
- **POSTMAN**
- **JMETER**
- **TestNG**

Module - 8: Interview Guide

- **Resume Preparation**
- **Interview Questions**
- **Mock Interviews**
- **Job Profile Creation**
- **Day To Day Activities Of Tester**
- **Roles & Responsibilities Of Tester**

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