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Manual, Automation & API Testing Syllabus

COURSE CONTENTS

- Manual Testing**
 - Introduction to Testing
 - Quality
 - Software Development Life Cycle (SDLC)
 - Software Testing Life Cycle (STLC)
 - QA and QC activities
 - Verification and Validation
 - Verification techniques
 - Types of Software Development Life Cycle Models
 - Test Process
 - Test Management (TL or PM)
 - Risk
 - Black box testing techniques
 - Defect
 - White box testing techniques
 - Types of testing
 - Levels of testing
 - Defect Tracking Tools
- API Testing**
 - Introduction of API and Web services
 - ARC (Advanced Rest Client)
 - Postman

Automation Testing

- Selenium Introduction**
- Installing Selenium IDE**
- Introduction to WebDriver & Comparison with Selenium RC**
- Automating Operations on various Elements**
- Automating Keyboard and Mouse Events**
- Handling multiple Windows**
- Handling Alerts**
- Handling Frames**
- Creating Customize XPath/CSS Selectors**
- Page Object Model (POM) & Page Factory in Selenium**
- MAVEN**
- Automating Excel file Operations**



Manual Testing

Introduction to Testing

- What Is Testing?
- Why Testing Is Essential?

Quality

- What Is Quality Of Software?
- Quality Attributes

Software Development Life Cycle (SDLC)

QA and QC activities

Verification and Validation

Verification techniques

- Informal Review

- Walkthrough

- Technical review

- Inspection

Types of Software Development Life Cycle Models

- Waterfall Model
- Verification And Validation Model (V Model)
- Incremental Model
- Iterative Model
- Agile Model
- Spiral Model
- Rapid Application Development Model (RAD)

Test Process

- Generic Test Process

Test Management (TL or PM)

- Project Delivery
- Estimation
- Test policy
- Test Strategy
- Test Plan
- Phase Test plan
- Test Completion Report

Risk

- What Is Risk?
- Risk Probability
- Risk Examples
- Risk Contingency
- Risk Identification
- Risk Impact
- Risk Mitigation

Black box testing techniques

- Equivalence Partitioning Or Equivalence Classing
- Boundary Value Analysis
- Use case based testing
- State transition testing
- Cause effect graphing
- Error guessing

Defect

- What Is Defect?
- Defect Life Cycle
- Use case based testing
- State transition testing
- Cause effect graphing
- Error guessing

White box testing techniques

- Basis Path

- Control Structure Testing

Types of testing

- Types Of Functional And Non Function Testing

- Regression testing

- Cross Browser Testing Using TestNG

Levels of testing

- Unit Level Testing

- System Testing

- Integration testing

- System integration testing

Defect Tracking Tools

- Jira

Automation Test Frameworks

- Modular Driven Framework

- Keyword Driven Framework

- Data Driven Framework

- Hybrid Framework

Synchronization

- Implicit Wait

- WebDriver Wait

- Fluent Wait

- Page Load Timeout

What is TestNG?

- Advantages Of TestNG Over JUnit

- Why Do We Need TestNG in Selenium?

- Installing TestNG In Eclipse

- Creating A New TestNG Test File

- Test Annotation

- Running The Test

- Checking Reports Created By TestNG

- Generating HTML Reports

- Annotations Used In TestNG

- Validating Tests With Assertions

- Creating Multiple Tests

- Parameterizing Tests With DataProvider

- TestNG DataProvider With Excel

- Creating And Running Test Suites With TestNG.xml

- Cross Browser Testing Using TestNG

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