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Syllabus of Software Testing Course

Manual Testing

Basics of Testing

- What is software testing?
- Why is testing necessary?
- Testing Participants
- Testing Principles
- Best Practices in Testing
- Skills used For Testing

SDLC (Software Development Life Cycle)

Introduction of Software Process

- The PDCA cycle
- Phases in SDLC
- Waterfall Model
- Phases of Waterfall Model
- Advantages & Disadvantages

- Spiral Model
- Phases of Spiral Model
- Spiral Model Strengths & Weaknesses
- When should you use Spiral Model
- Incremental Model
- Phases
- Advantages & Disadvantages
- Agile Model
- Scrum methodology
- Sprints in Scrum
- Scrum Roles
- Scrum Artifacts & Ceremonies
- V-shaped Model
- Steps in the V-shaped Model
- V-shaped Strengths & Weaknesses
- CMMI Model
- Scrum methodology
- Sprints in Scrum

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- Scrum Roles
- Scrum Artifacts & Ceremonies
- V-shaped Model
- Steps in the V-shaped Model
- V-shaped Strengths & Weaknesses

CMMI Model

- CMMI Levels & KPAs

Software Testing Life Cycle (STLC)

- Requirements Analysis
- Test Planning
- Test Analysis
- Test Design
- Construction and verification
- Testing Cycles
- Final Testing and Implementation
- Post Implementation

Verification

- The V-V Model
- Inspections
- Walkthrough
- Peer reviews
- Technical Reviews
- Audits
- Verification Benefits

Mobile Testing

Overview of Mobile Devices

- Types of Mobile Devices
- Mobile Application Testing
- Different Mobile Platforms
- Types of Mobile Applications
- Native App
- Web App
- Hybrid App

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Validation

Introduction of Validation

- Unit Testing
- Integration Testing
- Functional Testing
- System Testing
- User Acceptance Testing
 - Alpha Testing
 - Beta Testing
- Accessibility Testing
- Manual Support Testing
- User Interface Testing
- Bottom-Up Approach
- Top-Down Approach
- Hybrid Approach
- Stub v/s Driver
- Big Bang Approach & its Issues

Performance Testing

Performance Testing Concepts

- Pre-requisites of Performance Testing
- Performance Test Types
 - Load Testing
 - Stress Testing
 - Soak Testing
 - Spike Testing
 - Volume Testing
 - Scalability Testing
- Common Performance Problems
- Performance Testing Process

Quality

- What is Quality?
- Quality Views
- Quality – Productivity
- Software Quality

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- Quality Control (QC)
- Quality Assurance(QA)

Risk Analysis

- What is Risk?
- Risk Analysis
- Risk Analysis Graph
- Risk Management
- Risk Mitigation
- Risk Mitigation Graph

Black Box Testing

- What is Black Box testing?
- Test Case Design Methods
- Equivalence Partitioning
- Decision Tables
- A Boundary value Analysis
- State Transition Testing
- An Error guessing

- Use-case Based Testing
- Advantages & Disadvantages of Black Box Testing

White Box Testing

- Statement Coverage
- Decision Coverage a Condition Coverage
- Cyclomatic Complexity
- Advantages & Disadvantages of WBT
- Gray Box Testing

Another testing types

- Mutation Testing
- Progression Testing
- Re-Testing
- Regression Testing
- Sanity vs Smoke Testing
- An Ad-hoc Testing

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- Monkey Testing
- Buddy Testing
- Exploratory Testing
- An Ad-hoc Testing Methods
- Pair Testing
- Defect Seeding
- Mutation Testing v/s Defect Seeding

Test management

- Test Organization
- Test Strategy
- Test Plan
- Estimates
- Test progress monitoring and control

Web Application Testing

- Sample Paper 1
- Sample Paper 2
- Practice Session
- Threats & Risks

- Testing Range
- Testing Strategies
- Test Planning
- Test Cases, Scripts & Suites
- Load and Stress testing
- Security Testing
- Test For Navigation

RTM(Requirements Traceability Matrix)

- Generating Traceability Matrix
- Types of Traceability Matrix

Mobile Applications Test Types

- Mobile Testing Types Testing
- For the devices Testing for the connectivity
Functional Testing
- A Usability Testing Installation Testing
- A Security Testing
- Mobility Testing Process

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Automation Testing

Core Java Part

- Basics of Java
- OOPs concepts and Core Java

Introduction

- OOPs concepts
- Setup Java environment—Download
- JDK and Setup eclipse
- Java programming concepts
- Class, Object, Variables, Methods
- Packages
- Conditions and loops
- Access and non-access modifiers
- Advanced Java Programming
- Interfaces, Inheritance
- Collections, Exceptions

Overview of Automation Testing

- Disadvantages Of Manual Testing
- Benefits Of Automation Testing
- What & When To Automate
- Selection Of An Automation Tool
- Types of Tools & Vendors

Selenium 3.0

- Selenium Introduction
- What is Selenium and Why Selenium?
- Selenium Components
- Introduction of Selenium Components
- Java in Selenium?
- Selenium IDE and RC Introduction
- Introduction to Selenium IDE
- "Selenese" – Selenium Commands
- Actions, Asserts, Assessors
- Developing Test Cases & Test Suites With

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- Selenium-IDE
- An Introduction to Selenium RC

Selenium WebDriver

- Selenium Web Driver
- Introduction WebDriver Vs RC
- Simple Testcase
 - Open and Close Browser
 - Cross Browser
- Testing – Firefox,
- IE, Chrome, HtmlUnitDriver, Headless
- Drivers
- UI elements Locators
- Locators
- Identifying Web Elements using id, name, link text, Class, XPATH, CSS
- Handling various
- WebElement using WebDriver

Testing Framework and Tools

Introduction of Framework

- Framework
- Types of frameworks—Data-Driven, Keyword Driven, Hybrid TestNG
- Introduction with eclipse TestNG
- Annotations and Data Providers
- A Creating Test Suit with TestNG

Develop Data-Driven Framework

- Developing a data-driven Framework for
- Web Application using WebDriver /TestNG
- Use external Data for Testing (Using XML files, Property files)
- Reading and understanding reports a Screenshots for failed Test case

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Cucumber (Behaviour-Driven Testing)

- Introduction of Cucumber
- What Is BDD?
- BDD V/s TDD?
- What is Cucumber?
- Introduction Integration with Cucumber BDD
- Writing Feature File with Gherkin Syntax
- Running Scenarios from Feature file
- Cucumber Annotations
- Working with Step definitions

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- Record login test using Blazemeter plugin
- The execution order of test elements
- Hands-on session
- Create test scripts with samplers
- Listeners
- Verify, analyze
- & pause results using
- Listeners, Assertions& Timers
- Record script using test script recorder
- Use Blazemeter plugin to record login test

Software Testing Project(Manual + Automation)

- Case Study
- Understanding Business Requirement
- Creating a Test Case
- An executing Test Cases Loggingdefects
- Mobile testing of websites
- Mobile Testing Of Live App

JIRA (Issue tracking)

- Introduction to JIRA
- Advantages of JIRA
- JIRA installation &
- registration Dashboards
- Creating projects in JIRA
- Introduction to Issues
- Create, prioritize and assign issues
- Configuring Fields of Issues
- Components in JIRA
- What is a Workflow?
- Default JIRA Workflow a Status & Transitions
- Time Tracking & Colour Codes
- A Hands-on session on JIRA
- Creating projects
- Creating, assigning & prioritizing issues
- Issuetracking & reporting

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Structured Query language (SQL)

Introduction to RDBMS

Introduction to SQL

- Basic Terminologies in SQL
- Table
- Field
- Row
- Column
- Data Types in SQL
- Concept of Primary
- Unique, and Foreign
- Key Types of SQL statements
- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Data Control Language (DCL)
- Data Query Language (DQL) Functions in SQL
- SQL UNIQUE ConstraintNull Values in SQL
- SQL Join Operator

- Types of Join operators in SQL
- InnerJoin
- Outer Join
- Left Outer Join or Left Join
- Right Outer Join or Right Join
- Full Outer Join or Full Join



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