

Duration-60hrs

What is 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

Overview

- Testing Terminology
- What is Testing?
- Who does Testing?
- When to Start Testing?
- When to Stop Testing?
- Software Development Life Cycle(SDLC)
- Software Test Life Cycle (STLC)
- Understanding of QA, QC and Testing
- Principles of Testing

Documentation

- Test Plan
- Test Scenario
- Test Case
- Traceability Matrix
- Test Case Design Techniques
- Estimations

Testing Levels

- Functional Testing
- Unit Testing
- Integration Testing
- System Testing
- Regression Testing
- Acceptance Testing
- Non-Functional Testing
- Usability Testing
- Security Testing
- Portability Testing

Testing Methodology/Approach\

- Waterfall
- Prototype
- Spiral
- Incremental(Agile methodology and Scrum Framework)
- V-Model Verification vs. validation
- Advantages and Disadvantages of each software development lifecycle
- Difference between Functional and Non-functional testing

Defect Life Cycle

- Bug Life cycle
- How to Prepare Bug template?
- Bug Tracking tool

InterviewPreparation

- Globalization Vs Localization Testing
- Test Plan V/s Test Strategy
- Re-testing Vs Regression Testing
- Test Scenario Vs Test Condition
- Interview Questions
- Presentations
- Resume building
- Placement activities

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SQL Syllabus Overview.

- What is SQL?
- SQL Process
- SQL Commands

RDBMS Concepts.

- What is RDBMS?
- SQL Constraints
- Data Integrity
- Database Normalization.
- Database–First Normal Form (1NF)
- Database–Second Normal Form(2NF)
- Database–Third Normal Form (3NF)

RDBMS Databases

- MySQL
- MSSQL Server
- ORACLE .
- MSACCESS.

Syntax

- Various Syntax in SQL
- SQL – Data Types
- SQL–Operators
- What is an Operator in SQL?
- SQL Arithmetic Operators.
- Arithmetic Operators–Examples
- SQL Comparison Operators
- Comparison Operators–Examples.
- SQL Logical Operators
- Logical Operators–Examples

Expressions

- Boolean Expressions.
- Numeric Expressions
- Date Expressions.

AND & OR Conjunctive Operators

- The AND Operator
- The OR Operator

Constraints

- SQL-NOT NULL Constraint
- SQL-DEFAULT Constraint
- SQL-UNIQUE Constraint
- SQL – Primary Key
- SQL – Foreign Key
- SQL–CHECK Constraint
- SQL– INDEX Constraint.
- Dropping Constraints
- Integrity Constraints.

Using Joins

- SQL-INNER JOIN
- SQL–LEFTJOIN
- SQL-RIGHT JOIN
- SQL–FULLJOIN
- SQL–SELFJOIN
- SQL– CARTESIAN or CROSSJOIN.

UNIONSCLAUSE

- The UNIONALL Clause
- SQL– INTERSECT Clause.
- SQL– EXCEPT Clause

SubQueries.

- Sub queries with the SELECT Statement
- Sub queries with the INSERT Statement
- Sub queries with the UPDATE Statement
- Sub queries with the DELETE Statement

Java Course Content

Introduction to java

- Java Installation
- Variables
- Re-initialization
- Post- Increment, Post Decrement
- Pre-Increment, Pre-Decrement
- Decision making statements
- IF-ELSE
- Switch-case

Loops

- For loop
- While loop
- Do while loop
- Enhanced for loop
- Methods
- Method Overloading
- Constructor
- Constructor Overloading

OOPS Concepts(Object Oriented Programming System)

- Inheritance
- Method Overriding
- Type Casting
- Polymorphism
- Abstraction
- Abstract Class
- Interface
- Encapsulation
- Packages & Import
- Design Pattern

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COREJAVA

- Object Class
- String Class
- Arrays
- Boxing & Unboxing
- Wrapper class
- Collection framework & wildcards
- Exception Handling
- File Handling
- Multithreading

Selenium Automation Testing Syllabus

Overview

- Introduction to Automation
- What is automation testing
- Advantages of Automation Testing
- How to learn any automation tool
- Types of Automation tools

Introduction to Selenium

- What is Selenium
- Use of Selenium
- Features of selenium
- Difference between Selenium and QTP

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Selenium Components

- Selenium IDE
- Selenium Core
- Selenium Grid

Selenium IDE

- Selenium Overview
- Selenium IDE Introduction
- Downloading and Installing Selenium IDE
- Recording and Running a Simple Test
- Selenium IDE –Features
- Installing Useful Tools for Writing Tests
- Selenium Concepts
- Selenium Commands
- Verifying Page Elements–Assertions and Verifications
- Wait Commands
- Object Identification
- Element Locators
- Regular Expression patterns
- Selenium Test Runner
- Using Regular Expression sin Selenium IDE
- Creating Selenium Test Suites
- How to run the recorded script against other browsers
- Why companies are not using recording tools
- Limitations of Selenium IDE

HTML Concepts

- HTML Introduction
- Header, Body and footer Elements
- Textbox,radiobutton,checkbox,dropdown,images,browse,tab,etc.explanation

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Fire Bug, X path and CSS

- Introduction to Firebug
- Downloading and installing of Firebug
- Downloading and installing of x path
- How to identify the x path for an particular element
- Identifying objects using CSS

How to use Test NG and J unit in Selenium

- Introduction to Test NG
- Why Test NG
- Setting up Test NG
- Working with Test NG
- Advantages of Test NG over J unit
- Exploring Test NG Features
- How to Use Test NG Annotations
- Data Driven Testing Test NG
- Test NG Execution Report
- Test NG Results output folder walk-through
- Test NG Reporting features

Automation Framework

- What is Framework
- Types of Frameworks
- What is modular framework
- What is Data Driven framework
- What is Keyword driven framework
- What is Hybrid framework
- Use of Framework
- How to develop the framework
- Integration of the framework
- How to execute the scripts from framework

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Advanced Selenium2.0–Webdriver

- Introduction to selenium2.0
- Advantages of web driver
- Web Driver v/s RC
- Architecture of Web Driver and RC
- Web Driver IDE
- Installation/Configuring Eclipse for Web Driver
- Identifying the elements in Web Driver Using Id, Name, X path, Domand CSS
- Working with Different drivers like Html Unit driver, Firefox Driver etc...
- Creating the generic scripts in Web Driver
- Creating the scripts by using functions
- Web Driver Client Libraries
- Web Driver commands with examples
- Working with excel sheets using Web Driver
- Web Driver with Test NG/ J unit

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