

# About QuickXpert Infotech

Best institute for IT training and placements for classroom and online training for students and corporates. We are an ISO certified institute and in the industry since 2014. Our strong training and placement team have helped thousands of students build their career.

**Courses** - JAVA, Dot Net, Software Testing, Web Development, Full Stack Development, MERN, MEAN, Oracle, Digital Marketing, Python, Data Analytics, Data Science & A.I., Cyber Security, Salesforce, Service Now, Tableau, Power BI, Excel, React, Angular etc.

Live Projects - MarriageKing, the Vibrant Birdie, CRM etc.

**Corporate Trainings** - GeBBS Healthcare, NVest Solutions, Infogix, PDG Software, GMV India etc.

Syllabus mentioned below.



### **Tools You Learn**

















cucumber















& more ...



# **Manual Testing**

### **Testing Fundamentals**

- Quality Control
- Quality Assurance
- Functional Tests

### **Non Functional Tests**

- Performance Testing
- Usability Testing
- Reliability Testing
- Security Testing

### **Life Cycles**

- SDLC Software Development Life Cycle
- STLC Software Testing life Cycle
- Difference between SDLC & STLC

# **Testing Types**

- Black Box Testing
- White Box Testing



### **Software Testing Models**

- WaterFall Model
- V Model
- Agile Methodology
- Iterative Model
- RAD Model
- Agile Testing
- Advantages of Models
- Dis-advantages of Models

### **Test Cases**

- Understanding Project
- Writing Test Cases in Excel
- Executing Test Cases

### **Test Design Techniques**

- Static testing
- Review Process
- Roles and Responsibilities of Review Process
- Test Case Preparation
- Boundary Value Analysis
- Equivalence Partitioning
- Software Verification



- Software Validation
- Stress Testing
- Load Testing
- Endurance Testing
- Testing Metrics

## **Bug Life Cycle**

### **Regression Testing**

- Addition of Modules
- Testing on Addition of Modules

## **Other Testing Techniques**

- UAT
- Alpha
- Beta

### **Test Management**

Risk Analysis

### **Database Testing**

- SQL Concepts
- Database Testing Process
- SQL Queries



- Select
- Insert
- Update
- Delete
- Joins

#### **HTML Overview**

- Header and Body Tags
- Meta Tags
- Get, Post methods & difference
- HTML 5 Components & Validations overview

### **ISTQB (Foundation Level) Exam Preparation**

- ISTQB Syllabus and advanced topics already covered in this manual testing course
- Sample MCQs questions and answer PDF provided

# JIRA & Agile Testing

- Introduction to Jira Atlassian
- Definitions
- Functionalities
- Jira Software Products and Issue tracking
- Agile Framework & Manifesto
- Jira setup / account / project creation



#### **Scrum Master**

- Introduction to Scrum Master
- Creating Project using Scrum Template
- Scrum Events and Artifact
- Sprint Planing
- Scrum Roles
- Stand-ups
- Iteration/Sprint Planning Meeting
- Retrospectives
- Distributed Scrum

## **Projects on**

- Android App
- Website
- Web Application



# **Automation Testing**

### **Automation Concepts**

- Description
- Definition
- Functionalities
- Regression Testing

### **Java Programming**

- Control Structures
- If Else, For Structure Looping
- While Looping
- Do-While Looping
- Object Creation
- Methods Creation
- Arrays and Strings
- Packages
- OOPs Concepts
- Collection and Generics (Array List, Linked List, Set Interface, Hashmap, Hash-Set, Map Interface)
- JDBC Connection covered in Adv. Automation Testing
- Exception Handling covered in Adv. Automation Testing
- File Handling
- File IO covered in Adv. Automation Testing
- MYSQL(Setup & Configuration)



- MySQL Workbench
- Creating Database, Tables and CRUD Operations
- JDBC Configuration and CRUD Operations

### Selenium IDE

- Setup, Record / PlayBack
- Manual Editing
- Auto-script using Commands

### **Selenium Web Driver**

- Package API Usage
- Web Driver Commands
- Operations
- Web Driver Scripting
- Regression Testing
- Selenium Remote Control
- Selenium Grid
- Javascript Executor
- Implicit & Explicit Waits
- Selenium Exceptions

### **Scenario Based Automation**

- Validating Forms
- Validating Application Flow
- Logging Defects



### **Test-NG Scripting**

- Introduction
- Data Providers
- Setting Priority Level on Methods
- Enable & Disable Methods using Test NG
- POM Page Object Model

### **JMeter Performance Testing Tool**

- Introduction
- Where it is required?
- Installation
- Building Test Plans
- Creating & Assigning Threads in Thread Group
- Executing Test Plans through HTTP Request
- Assertions
- JDBC Connection Configuration
- JDBC Request
- Generating test report of Database

## **Cross Browser & Parallel Testing**

- Overview
- Using TestNG to Test Multiple Browsers in Same Program e.g.Mozilla Firefox,Chrome etc.



### **Automation Frameworks**

#### **Maven Build**

- Introduction
- Download and Install Maven plugins
- Maven Repository
- Add Dependencies in POM file
- Maven Integration with Selenium
- Generate Report

### **Excel Driven Framework**

- Using Apache POI API Libraries in java
- Using Excel files requires Java File IO
- Project -Get Test Data from MYSQL using Java JDBC ,Test Application using Selenium and Generate Defect Report

#### **Data Driven Framework**

- Using MYSQL Server
- JDBC and SQL Crud
- Project -Get Test Data from Excel using Apache POI, Test Application using Selenium and Generate Defect Report



### **Cucumber Framework**

- Introduction
- Overview of BDD Framework
- Downloading and installing cucumber plugins
- Creating Feature file
- Write & Run Glerkin Test in cucumber
- Given-When-Then Structure
- Implementing Scenarios Steps
- Creating Step Definition
- Integrating Selenium and Step Definition
- Integrating Junit with Cucumber
  - Overview of JUnit
  - Using Junit Test Runner
  - Junit Test Suite
- Generate Test Reports
  - Default Cucumber Report
  - o Extent Report

### **Best Practice**

# **Project**



# **API Testing**

### **Introduction to API Testing**

- What is API Testing?
- Difference between API & Web Services?
- Client-Server Architecture
  - 1-Tier Architecture
  - o 2-Tier Architecture
  - 3-Tier Architecture
- Layers in API Testing
- Types
  - SOAP(Simple Object Access Protocol)
  - RESTful API/Web services(Representational State Transfer)
- Methods of REST API/HTTP Request
  - o Get, Post, Put, Delete methods

## **Payload**

- Request Payload
- Response Payload

#### **Postman**

- Introduction & Installation
- Workspace
- Collections and Requests
- Working with Postman



### **API Testing using Postman**

- Creating Collections
- Creating Request
- Creating Environment Variables
- Creating Basic Authentication
- Creating test Sample of API's
- Request JSON Format
- Response JSON Format
- How to write the javascript to validate the response
- Make the requests dynamic by taking advantage of variables

## **API Validations(project)**

- Validating the body of first JSON response
- Validating response headers and status codes
- Understanding query parameters on sending request
- Validating status code
- Validating Response time

### **Jenkins**

- Introduction to Jenkins
- CI/CD (Continuous Integration / Continuous Deployment)
- Installation
- Maven and Jenkin integration
- Create Users and Roles
- Manage and assign roles



- Plugins
- Slack Notificications
- Browser Stack
- Green Balls
- Pipeline Job
- Introduction
- Manage Jobs
- Slack integration
- View Selenium Reports on Jenkins
- Clean up



# **MYSQL**

### Learn both MySQL & Adv. MySQL

Asked in most interviews

#### **Basics & Installations**

- MySQL Server
- Workbench (client)

### **DDL - Data Definition Language**

- Tables Create, Alter, Drop, Auto Increment
- Constraints Not Null, Primary Key, Unique Key, Foreign Key
- Index Why required, Create, Drop

## **DML - Data Manipulation Language**

Insert, Update, Delete & Truncate

### **Transactions**

Commit & Rollback

## **DQL - Data Query Language (Select)**

- Filters
  - Operators <, <=, >, >=, =, !=



- BETWEEN
- $\circ$  IN
- o LIK
- NOT
- o NULL
- o AND, OR, NOT
- Multi conditions filtering
- o DISTINCT
- Limit, offset

#### Sorting

- Ascending Order
- Descending Order
- Multi Column Sorting

#### Functions

- Data, number, characters, null values etc.
- o Case

#### Groups

- Grouping functions AVG, MIN, MAX, COUNT, DISTINCT COUNT
- o Grouping Filters HAVING

#### Joins

- Cartesian Product
- Equi and Non-Equi Joins
- Left Outer Join
- Right Outer Join
- Full Outer Join



- o Self Join
- SET Operators
  - Union, Union All, Intersect, Minus
- Subquery
  - Single Valued
  - Multi Valued
- Views & Inline Views
- Procedures
  - Programming basics if..else, for loop
  - Procedures create, drop
- Functions
  - o create, drop
- Triggers
  - o create, drop
- Project

### **Duration**

- Weekdays (MTTF, Wed is practice break)
  - Option 1 6 months 1.5 to 2 hrs/day
  - Option 2 4 months 2 to 2.5 hrs/day
- Weekends (S S)
  - Option 1 6 to 7 months 2 to 2.5 hrs/day
  - Option 2 4 to 5 months 2.5 to 3 hrs/day

more info - <a href="https://quickxpertinfotech.com/full-stack-software-testing-course">https://quickxpertinfotech.com/full-stack-software-testing-course</a>



# Our Recruiters (1000+ Companies)













































# **Our 5 Steps Process for Success**



### **Contact Us**

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