



React JS

A hand holding a red marker is positioned as if pointing at a magnifying glass. The magnifying glass is focused on a circular area containing the text 'AUTOMATION TESTING'. The background of the entire image is a blurred view of a computer screen displaying code and a gear icon.

AUTOMATION TESTING

About Course

Automation Testing is the practice of automatically reviewing and validating a software product, such as a web application, to make sure it meets predefined quality standards for code style, functionality (business logic), and user experience.

Aside from the types of automation testing; Smoke Tests, Integration Tests, Regression Tests, Security Tests, Performance Tests, Acceptance Tests, etc. are also common in the field of test automation.

AUTOMATION TESTING

CURRICULUM

① UNDERSTANDING TEST DESIGN

Introduction

Designing tests from requirements

Designing tests from scenarios

Requirement-based test design methods and techniques

Separation of data from scripts

Code-based test design

Automation considerations when designing tests

Selecting candidate tests to automate

② UNDERSTANDING OF BASIC AND ADVANCED SCRIPTING AND PROGRAMMING TECHNIQUES FREQUENTLY UTILIZED IN TEST AUTOMATION

Working with files

APIHTML

OCR

VBScript and Windows in the examples

Robust Execution

Object Validation

Action Validation

Recovery Design

Status Reporting
Maintenance Control
Regular Expressions for Dynamic Object Recognition
Dynamic Data Generation
Object Class Modification
Business Process Path Modification

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RELATIONAL DBMS BASICS

Introduction
SQL Basics – Select, Insert, Update, Delete
Using Aggregation to determine data health
Combining Data from Multiple Tables with Joins
Foreign Key Problems
Using Sub-queries
Generating Test Data
Views
Indices
Testing Scalable Architectures
Transaction Process Monitor (TPM)
Database Integrity
UML Database Model
Outer Join example for testing
Queries for Data Verification

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DATABASE FUNDAMENTALS FOR TEST ENGINEERS

Database Testing: Advanced Topics

Risk Based Testing Analysis and Management

Testing Web and eCommerce Applications

Performance Testing for Web and Client/Server Applications

Performance Testing Fundamentals

Advanced Performance Testing & Tuning Techniques

Programming and Database Concepts for Testing and QA Professionals

Programming Concepts for Test and QA Professionals

XML and Web Services Testing

Application and Data Security Testing

A Survey of Test Automation Tools

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OVERVIEW OF AUTOMATION

The purpose of test automation

Comparison of the vendor landscape to support test automation

Selecting and acquiring test automation tools

Determining automation requirements

Defining goals and requirements including feasible uses of automation



Determining return on investment
Application compatibility
Vendor selection and evaluation
Understanding the potential for diverse vendors and solutions
Vendor tool evaluation techniques
Effective installation and maintenance approaches
Infrastructure considerations
Implementation approaches that support ongoing ease of use
Organizational considerations to support automation
A Survey of Test Automation Tools
Functional Testing tools
Through the interface
Under the interface
Web services
Non Function Testing tools
Load
Performance
Security
Code Level tools
Structural Test Execution tools
Static Testing/Analysis tools
Test Automation Support Tools and Systems
Test Management Tools





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