QuickTest Pro VB Workshop

Course Summary

Description

In course students will take their test automation skills to the next level by applying Visual Basic programming concepts as used in HP QuickTest Professional solution. Through hands-on exercises, test engineers will create and enhance automated testing scripts in order to address typical testing problems. Each topic is supported by hands-on exercises based on real-life needs designed to provide with the knowledge necessary to create scripts in the Web/Windows environment.

Objectives
At the end of this course, students will be able to:

- Understand QTP Basics
- Apply VB programming in QTP
- Work with QTP's objects and methods
- Parameterize tests (use extern data)
- Use information displayed in the application
- Create custom verifications
- Work and maintain the Object Repositories
- Solve complex testing problems (dynamic objects, dynamic data…)
- Use external excel files, databases, and text files
- Create functions and libraries
- Debug test scripts

Topics

- Introduction to programming in QTP
- QTP Basics
- Fundamentals on VB programming in QTP
- Work with common QTP objects and methods
- Parameterization
- Working with Datatables
- User-defined Functions and Subroutines
- Actions
- Working with Objects
- Working with Dynamic Properties
- Working with Dynamic Data
- Custom Verifications
- Handling QTP Exception

Audience

This course is designed for automated testing engineers and test script developers

Prerequisites

Students should have working knowledge QuickTest Professional, experience in computer programming (any high-level language: Visual Basic, Java, C…), and a solid understanding of software testing.

Duration

Two-three days

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... to Your Success!"

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Course Outline

I. Introduction to programming in QTP

II. QTP Basics
- A. The Add-In page
- B. Recording a script
- C. Keyword vs. Expert View
- D. The Object Repository
- E. Running scripts
- F. The Test Results File

III. Fundamentals on VB programming in QTP
- A. Constants and Variables
- B. Statements

IV. Work with common QTP objects and methods
- A. Synchronization
- B. Standard checkpoints
- C. reporter.ReportEvent
- D. GetROProperty
- E. The Step Generator

V. Parameterization
- A. Datatable: (input,/output)
- B. The Global and Local datatables
- C. Random
- D. Environment variables

VI. Working with Datatables
- A. Common Data Table Methods
- B. Importing and Exporting Data from Excel

VII. User-defined Functions and Subroutines
- A. Normal (local)
- B. Passing objects as parameter (local)
- C. Register a procedure to an object class
- D. Override an Existing Object method
- E. Creating a Library File
- F. Associate libraries
- G. External Functions

VIII. Actions
- A. Local actions
- B. Reusable actions
- C. Calling reusable actions
- D. Passing information between actions

IX. Working with Objects
- A. What is an object?
- B. How to recognize objects in QTP
- C. Object repository
- D. Logical name
- E. The Object Spy
- F. Object repositories (local, shared)
- G. Object manager
- H. Regular expressions

X. Working with Dynamic Properties
- A. Manipulate object properties
- B. As recorded
- C. Modify the object logical name
- D. Manipulate the logical name with variables
- E. Using object property (programmatic description)
- F. Using Description Object
- G. Retrieving Child Objects
- H. Use regular expression in object name
- I. Using variables in object name

XI. Working with Dynamic Data
- A. Retrieve Data from Objects
- B. WinComboBox (windows applications ex: Flight Reservation (vB)
- C. WinList (windows applications ex: Flight Reservation (vB))
- D. WebList (web applications ex: Mercury Tours)
- E. WebTable (web applications ex: Mercury Tours)

XII. Custom Verifications
- A. Custom checkpoints
- B. Custom Checkpoints using excel
- C. Database Checkpoints

XIII. Handling QTP Exception
- A. Using Recovery Scenarios
- B. VBscript Exit Statements
- C. QTP Exit Statements

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