

Advanced JSystem

Course 11072 – 24 Hours

Overview

JSystem is a widely used test automation framework. The framework can be used with a variety of technologies under test. JSystem comes with a lot of built in functionalities which will be covered during this course.

On Completion, Delegates will be able to

- Understand JSystem more advanced features
- Enhance JSystem pluggable interfaces
- Create complex test automation project using Maven
- Integrate with test automation project with CI (Jenkins)

Who Should Attend

- Software testers who are responsible for test automation using JSystem
- Test automation engineers that want to know more about the JSystem framework

Prerequisites

- Java programming (mainly for test automation)
- Familiarity with the JSystem framework (course, hands on experience)

Course Contents

Welcome

- Course objectives and syllabus
- Logistics
- Automation Project Architecture

JSystem Design Overview

- Execution modes
- Architecture
- Debugging JSystem

JSystem and Maven

- Introduction to Maven
- Create JSystem project using archetype catalog

JSystem Listeners

- Observer design pattern
- TestListener implementation

JSystem Reporters

- Reporters mechanism
- Default reporters
- Implementing reporter
- Practice
 - CSV reports

Publisher API

- Overview of the publisher manager and publisher interface
- XmlReportHandler
- Implement SQL publisher

Concurrency

- Concurrency types
- Reports concurrency

JSystem Analyzers

- Overview of existing analyzers
- Implementation of new analyzers
- Practice

Fixtures

- Overview of fixtures mechanism
- Fixtures tab
- Implementing fixtures

Handling JSystem UI Events

- Overview on HandleUIEvent
- Handling parameters validators
- Advanced UI features
- Practice

Scenario API

- Create scenario API related code
- Practice

JSystem agents

- Create new agent
- Synchronize agents
- Attach tests to agents
- Agents reports

JSystem Parameters Providers

- Parameter providers architecture
- Change existing parameter provider
 - Add <null> string as to the provider
- Implementing new parameter provider
 - UI aspects
 - Validations
 - Integration

Jenkins

- Overview on CI and Jenkins
- Jenkins agents
- Execute JSystem using JSystem maven plugin
- Read JUnit reports
- Publish HTML reports

Selenium Advanced

- Overview
- Page object design pattern
- Advanced WebDriver API
- JavaScript
- Practice

Final Exercise

- Create a complex final project
- Use Maven to create the solution
- Create Jenkins periodic jobs for execution of the test automation
- View enhanced reports