KOENIG SOLUTIONS · COURSE OUTLINE

Selenium & Cucumber: WebDriver & Gherkin BDD (Advanced Integration)

Learn to automate browser testing with Selenium WebDriver and write behaviour-driven test scenarios using Cucumber and Gherkin.

8 MODULES

28 TOPICS

COURSE OVERVIEW

This course introduces automated testing before covering Selenium WebDriver, including installation, writing scripts and locating elements. It then moves into Cucumber, covering Gherkin syntax, feature files, and mapping steps to step definitions with parameterization. Later modules address working with browser profiles, cookies and sessions, handling dynamic elements through waits and advanced interactions, and using Cucumber hooks such as @Before and @After.

WHO THIS COURSE IS FOR

- **Test Automation Engineers**
- **QA Engineers**
- **Software Testers**
- **SDETs**
- **Quality Assurance Analysts**

LEARNING OBJECTIVES

- Explain the purpose and advantages of automated testing
- Configure and set up Selenium WebDriver for scripting
- Locate elements using ID, XPath, CSS selectors and other methods
- Describe Gherkin language syntax used by Cucumber
- Write feature files with scenarios, tags and data tables
- Map Gherkin steps to parameterized step definitions
- Manage browser profiles, cookies and multiple browser sessions
- Apply waits and advanced interactions to handle dynamic elements

COURSE SYLLABUS

8 Modules, 28 Topics

01

Introduction to Selenium and Cucumber

INTRODUCTION TO AUTOMATED TESTING

What is automated testing? · Advantages of automated testing · Introduction to Selenium and Cucumber

02

Understanding Selenium WebDriver

TOPICS

- What is Selenium WebDriver?
- Installation and setup of Selenium WebDriver
- Writing your first Selenium WebDriver script

LOCATING ELEMENTS WITH SELENIUM WEBDRIVER

- Locating elements by ID, name, class name, XPath, CSS selectors, etc.
- Best practices for element locators

03

Introduction to Cucumber

TOPICS

What is Cucumber? · Gherkin language syntax · Installation and setup of Cucumber

04

Writing Feature Files

TOPICS

Creating feature files · Writing scenarios using Gherkin syntax · Tags and Data Tables in feature files

05

Introduction to Step Definitions

TOPICS

Mapping Gherkin steps to step definitions · Writing step definition files · Parameterization of step definitions

06

Working with Different Browser Profiles

TOPICS

Introduction to browser profiles · Handling multiple browser instances · Managing cookies and sessions · Handling Dynamic Elements

07

Techniques for Handling Dynamic Elements

TOPICS

Implicit and explicit waits · Handling AJAX calls

ADVANCED INTERACTIONS WITH SELENIUM WEBDRIVER

Mouse and keyboard actions · Drag and drop operations · Handling pop-ups and alerts

08

Cucumber Hooks

TOPICS

Usage of @Before and @After hooks · Conditional hooks

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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