SpecFlow Course Syllabus

Section 1 - Visual Studio

.NET & C# OVERVIEW

The .NET Framework
.NET Core
C# Basic Concepts
Intermediate Language

VISUAL STUDIO

Customising Layout
Solutions and Projects
Compiling and Running Code
Common folders and files
Intellisense
Settings
Snippets
Extensions and Themes
Built in Terminal
Source Code Integration
Refactoring
Debugging and Breakpoints
Terminals

Section 2 - C#

C# BASICS

Variables
Conditionals and Loops
Methods
Classes and Objects
Arrays and Strings
Inheritance & Polymorphism
Structs and Enums

MORE C#

Handling Exceptions
Working with Files
Debugging
Unit Testing
Packages & Extensions

Section 3 - Selenium

OVERVIEW

Selenium Overview
Commonly Used Selenium Commands
Locating Browser Elements
Operations on Browser Elements

ARCHITECTURE

The Page Object Model
Page Object Model with Selenium
Driver Pattern
WebDriver Architecture
WebDriver and Selenium-Server

LOCATORS

Types of Locators in Selenium
Best Practices for Selenium Locators
Retrieve Value from Application
Browser Operations
Eclipse Project Setup
First Test with WebDriver

Additional Content

RegEx resource files for objects
Excel Data Tables
App.config files
DB connections and data sources

Section 4 - SpecFlow

SETUP

Requirements
Installation & Configuration
NuGet Packages
Project and Item Templates
Unit Test Providers

GHERKIN

Gherkin Reference
Feature Language

BINDINGS

Step Definitions
Hooks
Asynchronous Bindings
Scoped Step Definitions
Sharing Data between Bindings
Context Injection
Scenario Context
Feature Context and Feature Files
Calling Steps from Step Definitions
Step Argument Conversions
Bindings from External Assemblies
SpecFlow.Assist Helpers

EXECUTION

Executing SpecFlow Scenarios
Mark Steps as not implemented
Skipping Scenarios
Test Results
Parallel Execution
Debugging
Output API

INTEGRATIONS

SpecFlow+ Runner
MSTest, NUnit & xUnit