



Automation Software Testing Tool Syllabus

1. Introduction to Cucumber and BDD

- What is Automation Testing?
- Advantages & Limitations of Automation Testing
- Automation Criteria (Automate or Not)
- Web Applications and Test Automation for Web Applications

2. Introduction to Selenium

- What is BDD
- Cucumber implements BDD
- Gherkin Language
- Features
- Scenarios
- Preparing Features File having test scenarios
- Writing a step definition
- Writing Runner Class
- Given, When, Then, And, But annotations and usage in features class
- Passing parameters in Step Functions
- Using regular expression in step implementation to parameterize
- Parameterize complete scenario using features class
- Datatable in Cucumber and its implementation



3. Working with Ruby and Rails

- Installing Ruby language
- Setting up the Development Environment
- Best practices for Rails application deployment.
- Optimizing a Ruby on Rails application.
- Internationalization with Rails.
- The future of Rails and CRUD.
- Install Ruby and Gems
- Create Cucumber project
- Test Cucumber project with Ruby
- Junit Report Generation in Cucumber
- Cucumber HTML Reports
- Log4j Usage
- Using Assertions to report failure

4. Cucumber with Maven in Eclipse

- Download the Maven Dependencies for Cucumber, Selenium, Junit
- Downloading Cucumber Jars
- Introduction to Java
- Create the Maven Project using Java
- Running simple feature/Step scenario
- Introducing selenium layer – Web Connector
- Building custom functions in Web Connector
- Building a simple test case



- Implementing logging using Log4J
- Executing project from eclipse
- Executing project from Maven
- Generating Junit, Cucumber reports
- Background and Pending Exception
- Parameter zing/repeating test cases from feature classes
- Implementing/deciding Tags
- Running all/limited tests

5. Handling Databases with Cucumber

- Introducing Active Record
- Refactoring to Use a Database
- Reading and Writing to the Database
- Cleaning the Database with Transactions
- Cleaning the Database with Truncation

6. Web Services Testing using Savon and Nokogiri

- Writing Web Service project in Visual Studio 2013
- installing Savon and Nokogiri gems
- Writing a feature file for accessing Web Services
- Writing Step Definitions
- Testing Web Services

7. Automation with Selenium

- Creating Ruby Project with Selenium Web Driver gem
- Running the project



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