

Ruby on Rails, Cucumber, Capybara

Duration

5 Days

Overview

The Training session will give full hands-on in Ruby Cucumber Web Automation Testing Training. We will work throughout the session on Ruby, Cucumber, Capybara and Rails.

Introduction

Cucumber is a flagship Behaviour Driven Development (BDD) tool. It provides a solution to create tests that anyone can understand, irrespective of their technical awareness. It's useful to involve business stakeholders who cannot easily read code.

Cucumber is developed in the Ruby programming language. Cucumber emphasizes on end user experience. Its writing tests Style allows to simpler code reuse in the tests. It is an effective tool for testing and supports other languages like Java, Scala, and Groovy etc.

Targeted Audience:

- Testing Engineers
- Automation Engineers
- Manual Testers
- Android Developers
- Web designers
- Mobile App Developer
- Developers
- Ruby on Rails Developers

Prerequisites

The participants taking Ruby on Rails Training course must be familiar with the general principles of object oriented programming (OOP).

Contents

Day 1

- Introduction to Ruby
- Running Ruby Programs
- IRB (Interactive Ruby)
- What's New in Ruby?
- Ruby on Rails, Cucumber, Capybara
- Array and Hashes
- Control Structures
- Blocks and Iterators
- Reading and Writing
- Classes, Objects, And Variables

- Containers, Blocks, and Iterators
- Standard Types
- Expressions
- Exceptions, Catch, and Throw
- Objects and Methods
 - Sending messages to objects
 - Messages and methods
 - Catching non-existent methods
- Strings and Numbers
 - String literals and interpolation
 - String operations
- Numerics
 - Arithmetic operators
 - Arithmetic operators methods!
 - Symbols
- Basic Input and Output
- Arrays
 - Arrays as method return values
 - Array operations
 - Getting items from an array
 - Setting array items
 - Hands on Examples using Array.

Day 2

- Hashes
 - Hash operations
 - Determining hash key uniqueness
 - Alternate hash key syntax
 - Hands on Examples using Hashes
- Modules
 - Modules as namespaces
 - Modules as class mixins
- Classes
 - Inheritance
 - Classes as objects
 - The accessor & setter methods:
- The instance methods
 - The class methods & variables
- Regular Expressions
- Iterators
- Ruby on Rails, Cucumber, Capybara
- Sorting Collections
- Sorting with a code block
- Filtering Collections

- Ruby File I/O, Directories
- File.new, OpenMethod
- Sysread Method
- IO.readlines

Day 3

- Introduction to BDD and Cucumber
- Why Cucumber, What is BDD and ATDD,
- About Gherkin language,
- Installation of Cucumber
- Cucumber commands
- Cucumber Gherkin Syntax
- Cucumber Examples
- Feature file creation, Step definitions,
- HTML Reports
- Configuring Cucumber
- Cucumber Case Study Step Definition for Ruby OOPs
- Conclusion and Summary

Day 4

- Introduction to Capybara
- Capybara installation
- Environment setup, env.rb
- YouTube.feature
- Google.feature
- selenium web driver
- Testing Web Apps with Capybara and Cucumber (Case Study)
- "sinatra (Web Application)
- shotgun (Web Server)
- Capybara Drivers
- Interaction with forms
- Capybara Querying
- Capybara Finding
- Capybara Scoping
- Capybara Configuring and adding drivers
- Conclusion and Summary

Day 5

- Ruby on Rails, Cucumber, Capybara
- Setting up the environment with Cucumber BDD and Rails.
- Using third party libraries in Cucumber
- Rails and Active Record
- What is Active Record?
- The Active Record Pattern

- Object Relational Mapping
- Active Record as an ORM Framework
- Convention over Configuration in Active Record
- Naming Conventions
- Schema Conventions
- Creating Active Record Models
- Overriding the Naming Conventions
- CRUD: Reading and Writing Data
 - Create
 - Read
 - Update
 - Delete
- Validations
- Callbacks
- Migrations
- Conclusion and Summary