

Selenium With PYTHON Content

Module 1: Overview on Automation

Module 2: Python Programming for Selenium&Object Oriented

Module 3: Selenium WebDriver

Module 4: PyTest

Module 5: Extent Reports, Page Object Model

Module 6: Automation Frameworks

Module 7: Continuous Integration (CI) – Jenkins, GIT & Github

Module 8: Database

Module 1: Overview on Software Testing & Automation

- . What is Software Testing?
- . Ways of Software Testing?
- . Challenges in Manual Testing?
- . Use of Automation Testing?
- . Tools for Automation Testing?
- . What is Selenium ?
- . Features of Selenium
- . Limitations in Selenium

Module 2: Python Programming for Selenium

- . Download and install Python
- . Setup Python Environment
- . how to use Pycharm
- . Basic Python Program
- . Run a Python Program
- . Understanding console output

- . Python Variables and Data Types
- . Python Operations
- . Conditional Statements
- . Looping statements
- . Lists and Tuple
- . String
- . Dictionary and Set
- . Python Object Oriented Programming
- . Classes and objects in Python
- . Functions and methods in python
 - . Passing parameters to the methods
 - . Python Constructor
 - . method Overloading
 - . Constructor Overloading
 - . Static variables and methods
 - . Python Packages
 - . Exception Handling
 - . Python Database Connectivity

Module 3: Selenium WebDriver

- . Download WebDriver Api
- . Create WebDriver projects in PyCharm
- . Create WebDriver
- . Execute test case on multiple browsers
- . Locations
 - .What are the locations?
 - . Types of locators?
 - . Types X Path
 - . Writing X Path
 - . Built -in functions in X Path
 - . Handling Dynamic elements using X path

- . WebDriver commands
 - . Browser commands
 - . Get commands
 - . Switching commands
 - . Navigation commands
 - . Conditional commands
 - . Implicit,Explicit and Fluent Waits

- . Handling Web Elements
 - . Text box /Input box
 - . Links

- . Radio
 - . Button / Checkbox
 - . dropdown
 - . box /Combo box

- . Multi Select
 - . Drop down
 - . list box
- . Calender / Date
 - . picker
 - . Web links
 - . Html
 - . frames / iframes

- . Web / Html Tables
 - . mouse actions using acti class
- . Mouseover
 - . Mouse double click
 - . Mouse right clicks
- . Drag and Drop

Handling slider/ scroll bar

- . Resizing
- . Handling Tooltips
- . Key board actions

- . How to use javascript Executor
 - . Browser Profiles
 - . Desired Capabilities
 - . Handling Cookies
 - . Headless browser testing
 - . Headless browser testing
 - . Capturing Screenshots
- . Data Driven Testing in Selenium
 - . Excel/csv files
 - . Databases
 - . Text files
 - . Python logging

Module 4: PyTest

- . What is PyTest? Features of PyTest
- . Install PyTest in PyCharm
- . How to write Pytest test case
- . Annotations in PyTest
- . Pytest HTML Report
 - . Prioritizing tests
 - . Depends on Methods
 - . Skipping tests
 - . Grouping methods
 - . Parameterization
 - . Parallel testing
 - . Data Provider

Module 5 :Extent Reports ,Page Object Model

- . Generating Extent Reports
- . Page Object Model -Creating page Object

Module 6 :Automation Frameworks

- . What is Framework?
- . Various Types of Frameworks
- . Implementation of Hybrid Driven Framework

the scratch

- . Creating page objects and objects repository
- . Creating utility files
- . Setting up configuration files
- . Creating data driven test scripts
- . Generating extent reports
- . Generating logs using Python Logging Module
- . Execute test Scripts
- . Execute test reports
- . Execute test Scripts using bat file

Module7:Continuous Integration (ci)- Jenkins & GIT

- . What is Continuous integration ?
- .Continuous integration?
- . Download and install Jenkins
- . Maven integration Tools
- . Run selenium test scripts through Jenkins
- . Download and install Jenkins
- . Installing Git and GITHUB plugins for Jenkins
- . Git commands
- . Uploading project to Github

Module 8: Database

- . SQL introduction
- . SQL Data Types
- . SQL Statements
- . CRUD
- . Joins



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