

PROTRACTOR TRAINING COURSE CONTENT

SECTION 1 : PROTRACTOR INTRODUCTION

- Introduction to AngularJs
- Introduction to Protractor course

SECTION 2 : INSTALLATION PROCEDURE

- Pre-requisites
- Installing JDK and Node.JS
- Installing Protractor on Windows
- Running the first Protractor Test
- Installing Eclipse and Turn plugin
- Installing Visual Studio code editor
- Protractor Snippets for VSCODE

SECTION 3 : JAVASCRIPT BASICS

- Javascript - Defining Variables
- Javascript - Variables and Concatenation
- Javascript - Operators - Arithmetic, Incremental & Decremental operators
- Javascript - Equality Operators
- Javascript - Comparison and Logical operator
- Javascript - Available DataTypes
- Javascript - If and Else, Switch statements
- Javascript - Functions
- Javascript - For Loop
- Javascript - While and Do While loop
- Javascript - Break, Continue and Labels
- Javascript - Arrays
- Javascript - Var, Let and Const
- Javascript - Objects and accessing members in another JS file

SECTION 4 : PROTRACTOR BASICS

- Understanding the Conf.js file
- Understanding Describe and It blocks and writing test cases
- Handling Dropdown list
- Adding validations using Jasmine Expect
- Handling Dropdown list - code
- WebStorm Installation and integrating Protractor runner
- Autosuggestions

SECTION 5 : PROMISES

- How Protractor handle promises
- More on Promises implementation through Javascript

SECTION 6 : Jasmine Basics

- Introduction to Jasmine and basic features
- BeforeEach and AfterEach
- Expect toBe and not toBe
- Expect toEqual, toMatch and not toEqual
- Creating Test Suites and running selective / all test cases
- Creating Test Suites and running selective / all test cases - code

SECTION 7 : LOCATORS

- About AngularJS Locators
- By Model, By ClassName, By ButtonText
- By Binding, By ID
- By Repeater
- By addLocators
- Select Wrapper class

SECTION 8 : MICROSOFT EDGE DRIVER

- Configuring and Running test on Edge browser

SECTION 9 : UTILITIES

- Generating Logs - winston NPM
- Generating Allure Reports
- Installing Maven and Generating HTML Reports
- Sending Emails
- Understanding Package.json file and it's usage

SECTION 10 : DATA DRIVEN TESTING

- Reading data and locators through JSON files
- Parameterization using Jasmine Data Providers
- Reading Excel Files

SECTION 11 : E2E TESTING ON ANGULARJS BANKING APPLICATION

- Automating Customer Login
- Automating Bank Manager Login

SECTION 12 : PAGE OBJECT MODEL - FRAMEWORK (LIVE PROJECT)

- Introduction to Page Object Model
- Creating Architecture and Adding business pages
- Adding More Business Page and Test Cases
- Adding the Page Object Model design pattern
- Adding common Json file for Locators and TestData

SECTION 13 : HANDLING NON-ANGULAR ELEMENTS

- Automating a Login window
- Handling tabs and popups

SECTION 14 : ANDROID - TEST EXECUTION ON A REAL DEVICE

- How to execute Protractor test on an Android device
- Android Test Configuration

SECTION 15 : JENKINS - CI

- Introduction to Jenkins
- Jenkins configuration
- Understanding the Conf.js file

SECTION 16 : PROTRACTOR DOCKER & SELENIUM GRID INTEGRATION

- Integration with Selenium grid and docker to run parallel test
- Docker installation and adding Selenium Grid containers
- Docker compose with Parallel test execution on Multiple browsers
- Resources for download from Docker section