

| Sl.No | Topic   | Contents                                   |
|-------|---------|--|
| 1     | Cypress | Introduction                               |
|       |         | Architecture and Setup                     |
|       |         | Understanding Folder Structures in Cypress |
|       |         | Test Runner                                |
|       |         | Build First Test                           |
|       |         | Supported Browsers                         |
|       |         | Basic Commands                             |
|       |         | Variables and Aliases                      |
|       |         | Locators                                   |
|       |         | Assertions                                 |
|       |         | Text Verification                          |
|       |         | Asynchronous Behavior                      |
|       |         | Working with XHR                           |
|       |         | jQuery                                     |
|       |         | Checkbox, Tabs, Dropdowns                  |
|       |         | Alerts, Child Windows, Hidden Elements     |
|       |         | Frames, Web Tables                         |
|       |         | Mouse Actions                              |
|       |         | Cookies                                    |
|       |         | File Upload                                |
|       |         | Data Driven Testing                        |
|       |         | Prompt Pop-up Window                       |
|       |         | Dashboards                                 |
|       |         | Screenshots and Videos                     |
|       |         | Debugging                                  |
|       |         | Custom Commands                            |
|       |         | Fixtures                                   |
|       |         | Environment Variables                      |
|       |         | Hooks                                      |
|       |         | Configuration of JSON File                 |
|       |         | Reports                                    |
|       |         | API Testing with Cypress                   |
|       |         | Integration with CI/CD                     |

| 2 | Playwright | Introduction to Playwright Automation  |
|---|------------|--|
|   |            | Playwright Architecture  |
|   |            | Playwright Installation  |
|   |            | Playwright Project Structure   |
|   |            | Playwright Basic methods for Web Automation testing with examples              |
|   |            | Handling UI Components(Dropdowns ,Radio Buttons, Childwindows) with Playwright |
|   |            | Learn Playwright Inspectors , Trace Viewers & Codegen tools with Demo examples |
|   |            | End to End Web Automation Practice Exercise with Playwright                    |
|   |            | Playwright Unique GetBy Locators for Smart Testing & Test Runner usage         |
|   |            | Handling Web dialogs, Frames & Event listeners with Playwright                 |
|   |            | API Testing with Playwright and Build mix of Web & API tests                   |
|   |            | Session storage & Intercepting Network request/responses with Playwright       |
|   |            | Build Excel Utils and drive uploads/downloads using Playwright                 |
|   |            | Page Object Patterns & Data driven Parameterization for Playwright Tests       |
|   |            | Project Configurations, & Config options for robust Framework design           |
|   |            | Test Retries , Serial & Parallel execution & Tagging Tests in Playwright       |
|   |            | HTML & Allure Reporting & CI/CD Jenkins Integration                            |
|   |            | Understand TypeScript Basics and Refactor Playwright Framework to TypeScript   |
|   |            | Playwright Cucumber Framework Integration with its features                    |