

## Course content – Selenium with Python

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### 1. Install Python

#### 1.1 Install Selenium

#### 1.2 Install Pycharm and configure Selenium

#### 1.3 Selenium WebDriver download (Chrome, Firefox, and IE)

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### 2.1 WebDriver Basic Commands (Title, URL)

### 2.2 Navigation Commands

### 2.3 Conditional Commands (is\_selected, is\_enabled, is\_displayed)

### 2.4 Wait Commands - Implicit and Explicit

### 2.5 Working with Input Boxes, Radio Buttons & Check Boxes, Dropdown, Links

### 2.6 Alerts (switch\_to\_alert().accept()/dismiss())

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### 3.1 Frames (switch\_to.frame(name)/.frame(id))

### 3.2 Browser Windows (tabs)

### 3.3 Web Tables

### 3.4 Scrolling (by pixel, end of the page, to-XPATH)

### 3.5 Mouse Actions - Mouse Hover, Double Click, Right Click, Drag and Drop

### 3.6 Upload Files, Download Files (Chrome), Download Files - Change Path (Chrome), Download Files (Firefox), Download Files - Change Path (Firefox)

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### 4.1 Data-Driven Testing - Excel

### 4.2 Install OpenPyxl Module

### 4.3 Excel Operations - Reading and Writing Data From/To Excel File

### 4.4 Data Driven Test Case From Excel File

### 4.5 Handling Cookies (Count, Add, Delete)

### 4.6 Capture Screenshots

### 4.7 Logging

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5.1 unittest Framework

5.2 unittest Framework - Keywords (setUp, tearDown)

5.3 unittest Framework - Skipping Tests

5.4 unittest Framework - Assertion (assertEqual, assertNotEqual)

5.5 unittest Framework - Assertion (assertTrue, assertFalse)

5.6 unittest Framework - Assertion (assertIsNone, assertIsNotNone)

5.7 unittest Framework - Assertion (assertIn, assertNotIn)

5.8 unittest Framework - Assertion (assertGreater, assertLess)

5.9 Create/Execute Test Cases and Test Suites

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6.1 Install pytest

6.2 pytest - Fixtures (pytest.fixture(), pytest.yield\_fixture())

6.3 pytest - Multiple Ways to Run Test Cases

6.4 pytest - unittest + HTML Reports + Page Object Model

6.5 Data Driven Testing - Oracle Database connectivity using cx\_Oracle -

6.6 pytest HTML Report Generation (pytest-html module)

6.7 Generate Allure reports in Selenium with Python and pytest

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