

# Eggplant Automation

## 1. Introduction to Eggplant Automation

- Understanding test automation and its importance
- Introduction to Eggplant tools and capabilities
- Setting up the environment for Eggplant automation

## 2. Getting Started with Eggplant Functional

- Installation and configuration of Eggplant Functional
- Understanding the components of Eggplant Functional
- Creating your first Eggplant script

## 3. Scripting Basics with SenseTalk

- Introduction to SenseTalk scripting language
- Variables, data types, and operators in SenseTalk
- Conditional statements and loops

## 4. Working with Images and UI Elements

- Image-based automation concepts
- Capturing and using images in Eggplant scripts
- Interacting with UI elements using image-based recognition

## 5. Creating Robust Test Scripts

- Best practices for writing maintainable scripts
- Script organization and modularization
- Error handling and exception management

## 6. Automating Data-Driven Tests

- Working with data sources in Eggplant
- Parameterizing scripts for data-driven testing
- Iterating through datasets and handling dynamic data

## 7. User Interactions and Simulations

- Simulating user interactions using Eggplant
- Automating keyboard input and mouse actions
- Automating complex user scenarios

## 8. Advanced Image-Based Techniques

- Using image collections for better recognition
- Handling dynamic UI changes in scripts
- Image properties and image-based comparisons

## 9. Integration with CI/CD and Reporting

- Integrating Eggplant automation with continuous integration pipelines
- Generating meaningful test reports and logs
- Incorporating Eggplant into the testing workflow

## 10. Performance and Load Testing with Eggplant Performance

- Introduction to Eggplant Performance

- Creating performance test scenarios
- Analyzing performance test results

#### **11. Testing Across Platforms and Devices**

- Extending Eggplant automation to mobile devices
- Cross-platform testing considerations
- Adapting scripts for different screen sizes and resolutions

#### **12. Best Practices and Advanced Topics**

- Strategies for efficient test script design
- Parallel and distributed testing with Eggplant
- Accessibility testing using Eggplant

#### **13. Case Studies and Real-World Examples**

- Examining real automation projects using Eggplant
- Learning from successful automation implementations
- Addressing challenges and lessons learned

#### **14. Future Trends in Test Automation**

- Exploring emerging trends in test automation
- AI and machine learning in Eggplant automation
- Continuous evolution of Eggplant tools and capabilities

#### **15. Final Project and Certification**

- Implementing a comprehensive automation project using Eggplant
- Presenting and evaluating the final project
- Awarding of the Eggplant Automation Certification