

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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Appium

Introduction to Appium

- Overview of Appium: Features, benefits, and use cases
- Comparison with other mobile automation tools (e.g., Selenium, Espresso, XCTest)
- Understanding the Appium architecture and components

Setting Up Appium

- Installing and Configuring Appium: Requirements and prerequisites
- Setting up Android SDK and iOS Xcode for Appium testing
- Appium Desktop and Inspector: Tools for inspecting and debugging mobile apps

Mobile Application Basics

- Understanding Mobile Application Testing: Challenges and considerations
- Overview of Android and iOS platforms: Differences in testing approaches

Appium WebDriver and Desired Capabilities

- Introduction to WebDriver protocol: Using WebDriver for mobile automation
- Desired Capabilities: Configuration options for setting up test environments

- Platform-specific capabilities: `AndroidDriver` and `IOSDriver` configurations

Locating Elements in Mobile Apps

- Locating Strategies: Finding elements using IDs, XPath, Accessibility IDs
- Advanced Element Locators: XPath functions, CSS selectors, `UIAutomator` selectors
- Handling Native and Hybrid Apps: Strategies for identifying and interacting with elements

Automating Native Mobile Apps

- Automating Native App Scenarios: Testing functionalities like login, forms, navigation
- Interacting with Mobile Elements: Touch Actions, Gestures (Tap, Swipe, Scroll)
- Handling Alerts and Pop-ups: Automating alerts and confirmation dialogs

Automating Hybrid Mobile Apps

- Testing Hybrid Apps: Interacting with web views embedded in native apps
- Automating Web Elements: Switching contexts, Handling `WebView` elements

Automating Mobile Web Apps

- Testing Mobile Web Apps: Strategies for browser testing on mobile devices
- Handling Mobile-specific Challenges: Orientation, Browser settings

Mobile Test Automation Best Practices

- Designing Efficient Test Cases: Test design strategies for mobile apps
- Implementing Page Object Model (POM) in Mobile Automation

- Error Handling and Reporting: Implementing robust error handling and reporting mechanisms

Data-Driven Testing with Appium

- Data-Driven Testing Approaches: Using Excel, CSV files for test data
- Parameterization: Running tests with different sets of input data

Appium Integration with CI/CD

- Continuous Integration and Deployment (CI/CD): Integrating Appium with Jenkins
- Running Appium Tests in Parallel: Strategies for faster test execution

Performance and Load Testing for Mobile Apps

- Performance Testing Basics: Tools and methodologies for mobile apps
- Load Testing Mobile APIs: Simulating concurrent users and analyzing performance metrics

Appium Cloud Testing

- Introduction to Appium Cloud Testing Platforms: Sauce Labs, BrowserStack
- Running Appium Tests on Cloud Devices: Configuring and executing tests on cloud-based devices

Appium Real-world Use Cases and Case Studies

- Implementing Appium in Mobile App Testing: Case studies across industries
- Best Practices and Lessons Learned from Successful Appium Implementations

Hands-on Projects and Practical Application

- Designing and Implementing Appium Test Automation: Hands-on projects covering various scenarios
- Integrating Appium with Backend Systems: Testing integrations and data flows

Career Development and Job Preparation

- Building a Career in Mobile Test Automation: Skills and certifications
- Interview Preparation: Appium-related interview questions and scenarios
- Freelancing and Consulting Opportunities in Mobile Automation Testing