Class

XCUIApplication

A proxy that can launch, monitor, and terminate a test application.

iOS | iPadOS | Mac Catalyst | macOS | tvOS | visionOS | watchOS | Xcode 16.3+

```
@MainActor
class XCUIApplication
```

Mentioned in

📄 Recording UI automation for testing

Overview

Use this class to launch, monitor, and terminate your app in a UI test. Use `wait(for:timeout:)` to launch your app and wait for it to reach an expected state before you check test conditions.

Topics

Creating an application proxy

`init()`

Creates a proxy for the application that's configured as the Target Application in Xcode's target settings.

`init(bundleIdentifier: String)`

Creates a proxy for an application for the specified bundle identifier.

`init(url: URL)`

Creates a proxy for the application at the specified file system URL.

Launching the application

`func launch()`

Launches the application.

`var launchArguments: [String]`

The arguments that pass to the application on launch.

`var launchEnvironment: [String : String]`

The environment variables that pass to the application on launch.

`func open(URL)`

Launches the application by URL.

Activating the application

`func activate()`

Activates the application.

Terminating the application

`func terminate()`

Terminates any running instance of the application.

Determining application state

`var state: XCUIApplication.State`

The most recent state of the application.

`enum State`

The possible states of an application during UI testing.

Waiting for an application state

```
func wait(for: XCUIApplication.State, timeout: TimeInterval) -> Bool
```
Waits for the application to reach the specified state or timeout.

Resetting authorization status

```
func resetAuthorizationStatus(for: XCUIProtectedResource)
```
Resets the authorization status for a protected resource.

```
enum XCUIProtectedResource
```
A system resource that requires user authorization to access.

Performing an accessibility audit

```
func performAccessibilityAudit(for: XCUIAccessibilityAuditType, ((
XCUIAccessibilityAuditIssue) throws -> Bool)?) throws
```

```
struct XCUIAccessibilityAuditType
```

```
class XCUIAccessibilityAuditIssue
```

Relationships

Inherits From

```
XCUIElement
```

Conforms To

```
CVarArg
CustomDebugStringConvertible
CustomStringConvertible
Equatable
Hashable
NSObjectProtocol
XCUIElementAttributes
XCUIElementSnapshotProviding
XCUIElementTypeQueryProvider
```

XCUIScreenshotProviding