# xTwins User Guide Matilde Agent Documentation

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## **1. Introduction**

#### 1.1. Purpose of the Documentation

This document provides a detailed usage guide for Matilde agent. It includes an introduction to the agent, a description of its purpose/objective, an enumeration of its features, and a listing of its different versions. It is designed to assist you in integrating and utilizing Matilde to enhance your daily productivity.

### 2. Overview of the Agent

#### 2.1. Purpose

Matilde is a specialized agent designed to assist clients in extracting XPaths from mobile applications using Appium. With expertise in navigating intricate mobile UI structures, Matilde ensures accuracy and efficiency in mobile data scraping tasks. Matilde also interprets provided XML code and offers personalized XPath suggestions, ensuring a smooth workflow for developers and testers of mobile projects.

#### 2.2. Key Functionalities

Matilde contains a powerful set of capabilities to streamline and enhance the extraction of XPaths from mobile applications. These capabilities make Matilde a go-to agent when working on mobile projects. The following functionalities highlight the key features of Matilde:



#### • XML Parsing and Analysis

• Matilde efficiently parses provided XML data identifying key attributes and elements for XPath generation.

#### • Mobile Application Expertise:

• Matilde is optimized in XPath extraction for mobile applications based on XML code snippets provided by clients.

#### • Elements Prioritization:

• Clients have the flexibility to describe specific elements in the page that should receive additional attention by Matilde during the XPath extraction process.

#### • Output Consistency:

• Ensures that identical XML code produces similar XPaths, enhancing reliability on the generated output.

#### • Multiple Output Formats:

• Matilde provides flexibility in the output structure, meaning, it supports XPaths extraction to different formats (e.g., json, yaml, ...).

#### • Visual Image Support:

 $\circ\,$  Images of the web page can be incorporated in the request to improve Matilde's response

### 3. How Matilde Works

#### 3.1. Input Explanation

#### Input Request – Required Variables:

- **xmlCode**: string
  - Provide the XML code snippet that Matilde should extract XPaths from.
- **outputFormat**: string
  - Specify the desired output format of the generated XPaths.

#### Input Request – Optional Variables:

- elementsDescription: list<string>
  - List of descriptions. Each description outlines an element or set of elements on the mobile page that Matilde should focus on during the XPath extraction process.
- **images**: list<file>
  - List of imagens (e.g., interface screenshots) that contain valuable information to improve Matilde's response.

#### 3.2. Interaction Example

#### Input Example:



#### • xmlCode:

<android.widget.RelativeLayout index="1" package="com.nasctech.streamline"</pre> class="android.widget.RelativeLayout" text="" checkable="false" checked="false" clickable="false" enabled="true" focusable="false" focused="false" longclickable="false" password="false" scrollable="false" selected="false" bounds="[132,634][948,755]" displayed="true"> <android.widget.ImageView index="0" package="com.nasctech.streamline"</pre> class="android.widget.ImageView" text="" resourceid="com.nasctech.streamline:id/iconLock" checkable="false" checked="false" clickable="false" enabled="true" focusable="false" focused="false" longclickable="false" password="false" scrollable="false" selected="false" bounds="[176,661][234,727]" displayed="true" /> <android.widget.EditText index="1" package="com.nasctech.streamline"</pre> class="android.widget.EditText" text="Password" resourceid="com.nasctech.streamline:id/password" checkable="false" checked="false" clickable="true" enabled="true" focusable="true" focused="false" longclickable="true" password="true" scrollable="false" selected="false" bounds="[278,661][832,728]" displayed="true" /> <android.widget.ImageView index="2" package="com.nasctech.streamline"</pre> class="android.widget.ImageView" text="" resourceid="com.nasctech.streamline:id/iconEye" checkable="false" checked="false" clickable="true" enabled="true" focusable="true" focused="false" longclickable="false" password="false" scrollable="false" selected="false" bounds="[832,672][948,716]" displayed="true" /> </android.widget.RelativeLayout>

- elementsDescrition: []
- outputFormat: yaml
- **images**: null

#### **Output Example:**

```
locators:
     lock icon:
           xpath: .//android.widget.ImageView[@resource-
id='com.nasctech.streamline:id/iconLock']
           wait: timeouts.defaults.small
           description: > Icon representing a locked item indicating that the
user must provide a password.
     password field:
           xpath: .//android.widget.EditText[@resource-
id='com.nasctech.streamline:id/password']
           wait: timeouts.defaults.small
           description: > Input field for the user to enter their password. The
field is password protected.
     eye_icon:
           xpath: .//android.widget.ImageView[@resource-
id='com.nasctech.streamline:id/iconEye']
           wait: timeouts.defaults.small
           description: > Icon that toggles the visibility of the password
entered in the password field.
```



# 4. Frequently Asked Questions (FAQs)

We will continuously update this FAQ section with the most commonly asked questions and insights from our clients to better support your needs.



# **5. Support and Contact Information**

For further assistance, please contact our support team through our service desk system:

• <u>https://support.jira.ritain.io/servicedesk/customer/user/login?destination=portals</u>