

# **xTwins User Guide**

## **Afonso Agent Documentation**

**Copyright © Ritain.io** (Binary Heroes, LDA)

All information in this document is confidential and property of Ritain.io (hereinafter “supplier”) and meant for use only by the client and only in connection with and subject to the tender. Client shall not disclose or otherwise make available to any person who is not an employee of the client with a definite need to know, or to any other entity, any of the information contained herein, without the written consent of the supplier. Any entity or person with access to this information shall be subject to this confidentiality statement. No part of this document may be reproduced or transmitted in any form or by any means for any purpose without the express



written permission of supplier. In the event this document originates a contract between the parts, the terms and conditions of the contract regarding confidentiality shall apply.

**Table of contents**

- 1. Introduction.....3
  - 1.1. Purpose of the Documentation .....3
- 2. Overview of the Agent .....3
  - 2.1. Purpose.....3
  - 2.2. Key Functionalities .....3
- 3. How Afonso Works .....4
  - 3.1. Input Explanation .....4
  - 3.2. Interaction Example .....5
- 4. Frequently Asked Questions (FAQs) .....5
- 5. Support and Contact Information.....6



## 1. Introduction

### 1.1. Purpose of the Documentation

This document provides a detailed usage guide for Afonso 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 Afonso to enhance your daily productivity.

## 2. Overview of the Agent

### 2.1. Purpose

Afonso is a specialized agent designed to assist clients in extracting XPath's from web pages. With expertise in managing complex HTML structures, Afonso streamlines the process of generating precise and consistent XPath's for automation purposes. It has proven to be an indispensable tool for developers, testers, and automation engineers seeking reliable XPath's for their projects.

### 2.2. Key Functionalities

Afonso is equipped with a robust set of capabilities to simplify and enhance the extraction of XPath's from web pages. By providing advanced features, Afonso offers both flexibility and



precision, making it an invaluable tool for developers and testers. The following functionalities highlight the key features of Afonso:

- **Accurate XPath Extraction:**
  - Afonso generates precise and maintainable XPaths by analyzing HTML snippets provided by clients.
- **Elements Prioritization:**
  - Clients have the flexibility to describe specific elements in the page that should receive additional attention by Afonso during the XPath extraction process.
- **Output Consistency:**
  - Ensures that identical HTML code produces similar XPaths, enhancing reliability on the generated output.
- **Multiple Output Formats:**
  - Afonso provides flexibility in the output structure, meaning, it supports XPaths extraction to different formats (e.g., json, yaml, ...).
- **Visual Image Support:**
  - Images of the web page can be incorporated in the request to improve Afonso's response

## 3. How Afonso Works

### 3.1. Input Explanation

#### Input Request – Required Variables:

- **xpathCode:** string
  - Provide the HTML code snippet that Alberto 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 web page that Afonso should focus on during the XPath extraction process.
- **images:** list<file>
  - List of images (e.g., interface screenshots) that contain valuable information to improve Afonso's response.



## 3.2. Interaction Example

### Input Example:

- **xpathCode:**

```
<div data-debug="system badge buy_box" class="buy-box" data-v-8ccc46cf="">
  <div class="product-price-info">
    <span class="price--lg" aria-live="polite">
      <span class="value">56</span>
      <span class="separator">,</span>
      <sup class="decimal">70</sup>
    </span>
  </div>
</div>
```

- **elementsDescription:** ["price container", "Retrieve integer and decimal value"]
- **outputFormat:** yaml
- **images:** null

### Output Example:

```
locators:
  price_container:
    xpath: "//div[@class='buy-box']//div[@class='product-price-info']"
  price_integer:
    xpath: "//div[@class='buy-box']//span[@class='value']"
  price_decimal:
    xpath: "//div[@class='buy-box']//sup[@class='decimal']"
```

## 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:

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