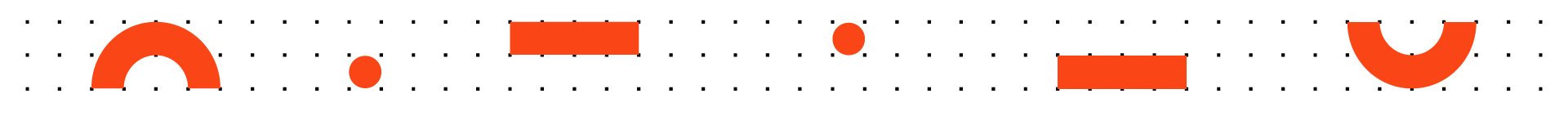




**Process Design Document (PDD)**

**Bitcoin-Price-Tracker**



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**NOTE:**

This version of the document and its current content is meant to serve as an example for business users (e.g. process SME) and it is intended to help with the creation of the process design documentation for RPA.

The current example`s content is fictive or adjusted to remove real confidential data and it should not be replicated to the automation of other business processes. All the process steps and screenshots in the PDD should be captured entirely from scratch and included here for the automation of the process is scope.

The list of examples is not exhaustive. Additional entries may be added or removed, case by case, as required to provide relevant data for RPA.

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# **Introduction**

## I.1 Purpose of the Document

The Process Definition Document outlines the business process chosen for automation using UiPath Robotic Process Automation (RPA) technology.

The document describes the sequence of steps performed as part of the business process, the conditions and rules of the process prior to automation and how they are envisioned to work after automating it, partly or entirely. This specifications document serves as a base for developers, providing them the details required for applying robotic automation to the selected business process.

## I.2 Objectives

The process has as a main purpose keeping several users updated with real-time bitcoin prices from various websites, as well as showing them older prices.

## I.4 Minimum Prerequisites for Automation

1. Filled in Process Design Document
2. Test Data to support development
3. Have an existing Config.xlsx file filled with required data
4. Dependencies with other projects on the same environment

# **As-Is Process Description**

## II.1 Process Overview

General information about the process selected for RPA prior to automation.

|  |  |  |
| --- | --- | --- |
| # | Item | Description |
| 1 | **Process full name** | Bitcoin Price Tracker |
| 2 | **Process Area** | Finance |
| 3 | **Department** | *n\a* |
| 4 | **Process short description**  (operation, activity, outcome) | Checks bitcoin prices on multiple trading websites gets them, converts them to euro and sends them afterwards through email to users |
| 5 | **Role(s) required for performing the process** | *n\a* |
| 6 | **Process schedule and frequency** | *n\a* |
| 7 | **# of items processes /reference period** | *n\a* |
| 8 | **Average handling time per item** | 1 min |
| 9 | **Peak period (s)** | *n\a* |
| 10 | **Transaction Volume During Peak period** | *n\a* |
| 11 | **Total # of FTEs supporting this activity** | *n\a* |
| 12 | **Expected increase of volume in the next reference period** | *n\a* |
| 13 | **Level of exception rate** | No expected exceptions |
| 14 | **Input data** | Emails.txt, Config.xlsx, prices.xlsx |
| 15 | **Output data** | prices.xlsx (sent through email) |

*\*Add more rows to the table to include relevant data for the automation process. No fields should be left empty. Use “n/a” for the items that don`t apply to the selected business process.*

## II.2. Applications Used in the Process

The table includes a comprehensive list all the applications that are used as part of the process automated, at various steps in the flow.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| # | Application name & version | System  Language | Thin/Thick Client | Environment/  Access method | Comments |
| 1 | Google Chrome | EN | Thick Client | Web Browser | Task management |
| 2 | Excel | EN | Thick Client | Windows Application | For keeping configs and prices |

*\*Add more rows to the table to include the complete list of applications.*

# **To-Be Process Description**

This chapter highlights the expected design of the business process after automation.

## III.1 To-Be Detailed Process Map

Diagram

Description automatically generated

## III.3 In Scope for RPA

The activities **in scope of RPA**, are listed here:

1. *Open* [*https://www.binance.com/en/trade/BTC\_BUSD*](https://www.binance.com/en/trade/BTC_BUSD)*;*
2. *Read price:* A screenshot of a computer

   Description automatically generated with medium confidence



1. *Close browser;*
2. *Open* [*https://trade.kucoin.com/BTC-USDT*](https://trade.kucoin.com/BTC-USDT)*;*
3. *Read price:* Chart, histogram

   Description automatically generated



1. *Close browser;*
2. *Open* [*https://coinmarketcap.com/currencies/bitcoin/*](https://coinmarketcap.com/currencies/bitcoin/)*;*
3. *Read price:* Graphical user interface, application

   Description automatically generated



1. *Close browser;*
2. *Open* [*https://www.coinbase.com/price/bitcoin*](https://www.coinbase.com/price/bitcoin)*;*
3. *Read price:* Graphical user interface, application

   Description automatically generated



1. *Close browser;*
2. *Open* [*https://www.coingecko.com/ro/coins/bitcoin*](https://www.coingecko.com/ro/coins/bitcoin)*;*
3. *Read price:* Graphical user interface, text, application

   Description automatically generated



1. Graphical user interface, application

   Description automatically generated*Close browser;*



1. *For each price convert to euro:*
2. Graphical user interface, text, application, email

   Description automatically generated*Populate old prices;*
3. *Send email with attachment:*

## III.4 Out of Scope for RPA

The activities **OUT of scope of RPA**, are listed here:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sub-process  (if case) | Activity (step) | Reasons for Out of Scope\* | Impact on the To-Be | Possible measures to be taken into consideration for future automation |
| 1. | Check if the site changed format from last time. |  | May impact the way robot selects the price. | Memorise the index.html of each site and compare with the actual index.html. |

*\*Add more rows to the table to reflect the complete documentation provided to support the RPA process.*

## III.5 Business Exceptions Handling

The Business Process Owner and Business Analysts are expected to document below all the business exceptions identified in the automation process. These can be classified as:

|  |  |
| --- | --- |
| Known | Unknown |
| Previously encountered. A scenario is defined with clear actions and workarounds for each case. | New situation never encountered before. It can be caused by external factors. Cannot be predicted with precision, however if it occurs, it must be communicated to an authorized person for evaluation. |

#### Known Exceptions

The table below reflects all the business process exceptions captured during the process evaluation and documentation. These are **known exceptions,** met in practice before. For each of these exceptions, define a corresponding expected action that the robot should complete if it encounters the exception.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **BE #** | **Exception name** | **Step** | **Parameters** | **Action to be taken** |
| 1 | Link may be wrong. | All that imply going to a URL | URL | Go to the next URL. |
| 2 | Site may be down. | All that imply going to a URL | URL | Go to the next URL. |

#### Unknown Exceptions

For all the other **unanticipated or unknown business (process) exceptions**, the robot should:

Send an email notification at [exceptions@acme-test.com](mailto:exceptions@acme-test.com) and error message screenshot attached.

## III.6 Application Error and Exception Handling

A comprehensive list of all errors, warnings or notifications should be consolidated here with the description and action to be taken, for each, by the Robot.

Errors identified in the automation process can be classified as:

|  |  |  |
| --- | --- | --- |
| Area | Known | Unknown |
| Technology/  Applications | Experienced previously, action plan or workaround available for it. | New situation never encountered before or may happened independent of the applications used in the process. |

#### Know Errors or Exceptions

The table below reflects all the errors identifiable in the process evaluation and documentation.

For each of these errors or exceptions, define a corresponding expected action that the robot should complete if it is encountered.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Error name** | **Step** | **Parameters** | **Action to be taken** |
| 1 | Application Crash / Internal Server Error | Any step | Error message | Recover & retry for maximum 3 times  Close the applications and run the sequence again |

#### Unknow Errors and Exceptions

For all the other **unanticipated or unknown application exceptions/errors**, the robot should:

Safely close the application without sending any email.

## **Other Observations**

Include below any other relevant observations you consider needed to be documented here.

*Example: Specific Business monitoring requirements (audit and reporting) etc.*