Process Definition Document (PDD)

*Process Name: Scrape relevant data from E-commerce website*

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# Introduction

## 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 with the details required for applying robotic process automation to the selected business process.

## Objectives

The business objectives and benefits expected by the Business Process Owner after automation of the selected business process are:

* Help compare the device price and model features within the website and across website

## Process Key Contact

The specifications document includes concise and complete requirements of the business process and it is built based on the inputs provided by the process Subject Matter Expert (SME)/ Process Owner.

The Process Owner is expected to review it and provide signoff for accuracy and completion of the steps, context, impact and a set of process exceptions. The details are to be included in the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| Role | Name | Contact Details  (email & phone number) | Notes |
| Process Owner | Aishwarya Bhargava | [aishu51198@gmail.com](mailto:aishu51198@gmail.com), 8764074858 | NA |
| Business Analyst | Aishwarya Bhargava | [aishu51198@gmail.com](mailto:aishu51198@gmail.com), 8764074858 | NA |

## Minimum Prerequisites for Automation

|  |  |
| --- | --- |
| Met (Y/N) | Prerequisites |
|  | A filled in and completed Process Definition Document |
|  | Closure of any open process questions |
|  | Environment set up |
|  | Test Data to support development and testing |
|  | User access and creation of user accounts (licences, permissions, restriction to create accounts for robots) |

# As-Is Process Description

## Process Overview

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

|  |  |  |
| --- | --- | --- |
| # | Item | Description |
| 1 | Process Full Name | Scrape relevant data from E-commerce website |
| 2 | Process Area | Marketing |
| 3 | Department | Marketing |
| 4 | Process Short Description  (operation, activity, outcome) | Generate a list of prices and models which are received by searching the keyword on amazon and flipkart |
| 5 | Role(s) required for performing the process | Amazon and Flipkart website |
| 6 | Process schedule and frequency | Based on need |
| 7 | # of items processed /reference period | NA |
| 8 | Process execution time | 2-3 mins per device |
| 9 | Peak period(s) | NA |
| 10 | Transaction Volume During Peak period | NA |
| 11 | Total # of FTEs supporting this activity | NA |
| 12 | Expected increase of volume in the next reference period | NA |
| 13 | Level of exception rate | No expected exceeptions |
| 14 | Input data | Device name and e-commerce website name |
| 15 | Output data | Scrape out results and store in proper manner |

\*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.

## Applications used in the Process

The table includes a comprehensive list of all the applications that are used as part of the process to be automated to perform the given steps in the flow.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| # | Application Name & Version | System Language | Thin/Thick Client | Environment/ Access Method | Comments |
| 1 | Google Chrome 84.0.4147.125 | English | Thin | Direct |  |
| 2 | Microsoft Excel  16.0.13426.20306 | English | Thin | Direct |  |

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

## As-Is Process Map

**High Level As-Is Process Map:** This chapter depicts the As-Is business process at a High Level to enable developers to have a high-level understanding of the current process.

Write the scrapped-out information in excel for further processing

Search for the device and scrape out the model name, model URL and model price

Open Amazon URL

Start

Write the scrapped-out information in excel for further processing

Search for the device and scrape out the model name, model URL and model price

Open FlipkartURL

END

**Detailed Process Map:** This chapter depicts the As-Is business process at a detailed view to enable process owners to document their process

|  |  |  |  |
| --- | --- | --- | --- |
| # | Step Action/Description | Screenshot | Remarks |
| 1 | Open amazon website |  |  |
| 2 | Search for the device |  |  |
| 3 | Scrape data from the searched results and close website |  |  |
| 4 | Save scraped data in excel | NA |  |
| 5 | Open flipkart website using assets on orchestrator |  |  |
| 6 | Search for the device |  |  |
| 7 | Scrape data from the searched results and close website |  |  |
| 8 | Save scraped data in excel | NA |  |

# To-Be Process Description

## Detailed Process Map

**High Level To-Be Process Map:** This chapter depicts the To-Be automation process at a High Level to enable developers/COE to have a high-level understanding of the to be developed process.

Get device name and e-commerce website from user

If Flipkart

If Amazon

END

START

Open URL using orchestrator asset, search the device, scrape data, add on excel, upload string on orchestrator queue, close browser

Open URL using orchestrator asset, search the device, scrape data, add on excel, upload string on orchestrator queue, close browser

**Detailed Process Map:** This chapter depicts the To-Be automation process at a detailed view to enable developers/COE to see the workflows involved in the RPA solution

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Workflow Name** | **Description** | **Pre-conditions** | **Post-actions** | **Arguments** | **Notes** |
| Main.xaml | This workflow will execute all the other workflows and will also upload the desired string to the orchestrator queue | NA | data scraped and saved to excel and uploaded on queue |  |  |
| Form.xaml | This workflow will pop-up input boxes inorder to get input from the user regarding what item to search about and also which website to use. | The bot is unaware of the device to be searched as well which website to use. | The bot has now received the information about what to search and where to search. | io\_deviceName, io\_websiteName |  |
| AmazonWebpage.xaml | This workflow opens Amazon website for you and search the item and gets the relevant data from the website and stores it in structured format. | The bot knows if the workflow needs to be executed or not. | The bot will search the device on the amazon website and scrape all the necessary details. | io\_deviceName, out\_amazonData |  |
| FlipKartWebpage.xaml | This workflow opens FlipKart website for you and search the item and gets the relevant data from the website and stores it in structured format. | The bot knows if the workflow needs to be executed or not and also maybe the information has been retrieved from amazon website. | The bot will search the device on the flipkart website and scrape all the necessary details. | io\_deviceName, out\_flipkartData |  |

## Robot Type

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Attended | Unattended | Trigger | Comments |
| 1 | Attended | NA | Kicked off by user as needed | NA |

## 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 Exceptions

The table below reflects all the business process exceptions encountered during the process evaluation and documentation. These are known exceptions that occurred 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 | Amazon website not loaded. | 2 | Check for search bar | Log with Error level and Throw BRE and close the browser |
| 2 | Flipkart website not loaded. | 4 | Check for search bar | Log with Error level and Throw BRE and close the browser |

### Unknown Exceptions

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

* Log with Error level and Kill any open applications (Chrome)

## System Exceptions 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:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SE # | Exception Name | Step | Parameters | Action to be Taken |
| 1 | Exception | 3 and 5 | Queue | Catch error and stop the process |

For all the other unanticipated or unknown system exceptions, send an email to **aishu51198@gmail.com** and attach a screenshot of the error message.

# Other Observations

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

* NA

# Additional sources of process documentation

* NA