# Process Definition Document (PDD)

*Process Name: <Phone Types search engine in Amazon>*

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# Introduction

## I.  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.

## II.  Objectives

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

- Save time to get the available handsets from amazon in few seconds without unnecessary advertisements

## III.  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 | Udacity | N/A | N/A |
| Business Analyst | | | |

## IV.  Minimum Prerequisites for Automation

| Met (Y/N) | Prerequisites |
|---|---|
| Y | A filled in and completed Process Definition Document |
| Y | Closure of any open process questions |

| Y | Environment set up |
|---|---|
| Y | Test Data to support development and testing |
| N | User access and creation of user accounts (licences, permissions, restriction to create accounts for robots) |

# As-Is Process Description

## I.  Process Overview

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

| # | Item | Description |
|---|---|---|
| 1 | Process Full Name | Mobile Phone search enginer |
| 2 | Process Area | Amazon |
| 3 | Department | N/A |
| 4 | Process Short Description (operation, activity, outcome) | Operation: The user enter the phone type and then get and excel file of the results of his search after filtering the unnecessary results.<br>Outcome: Excel file with the desired phone type and can be emailed according to the user desire |
| 5 | Role(s) required for performing the process | N/A |
| 6 | Process schedule and frequency | N/A |
| 7 | # of items processed /reference period | Up to 100 |
| 8 | Process execution time | Not more than 5 mintues |
| 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 | N/A |

| | the next reference period | |
|---|---|---|
| 13 | Level of exception rate | Warn/trace |
| 14 | Input data | Phone Type/email |
| 15 | Output data | Excel file with up to 100 result of the desired phone type |

*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.

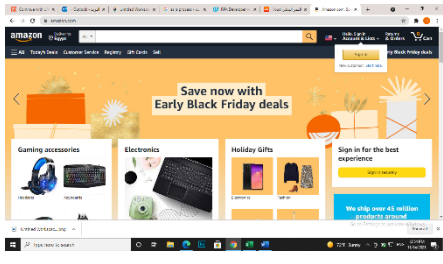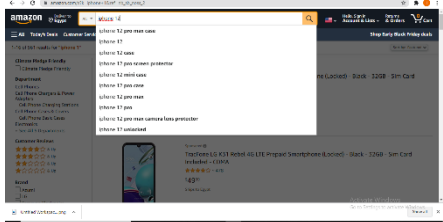# II.    Applications used in the Process

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.
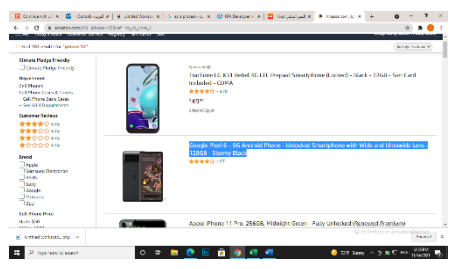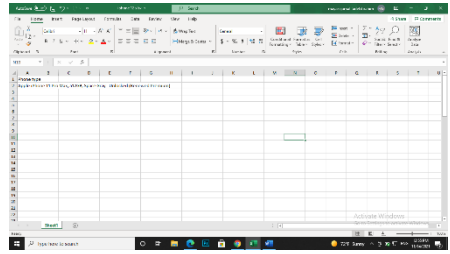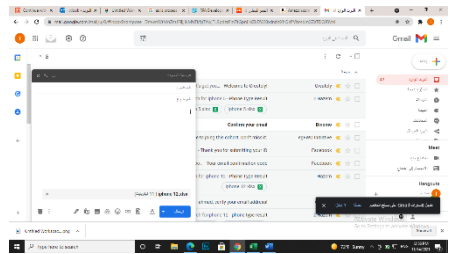
| # | Application Name & Version | System Language | Thin/Thick Client | Environment/ Access Method | Comments |
|---|---|---|---|---|---|
| 1 | Chrome | HTML/CSS | Thin | Windows 10 | |
| 2 | Excel | VBA | Thin | Windows 10 | |

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

# III.    As-Is Process Map

**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 webstie |  | |
| 2 | Search for the desired phone type |  | |

| 3 | Copy only the name of the mobile not accessories |  | N/A |
|---|---|---|---|
| 4 | Upload the result to the network (orchestrator) | N/A | N/A |
| 5 | Copy it to an excel file |  | N/A |
| 6 | Mail the file if the user want to do |  | N/A |

# To-Be Process Description

## I.    Detailed Process Map
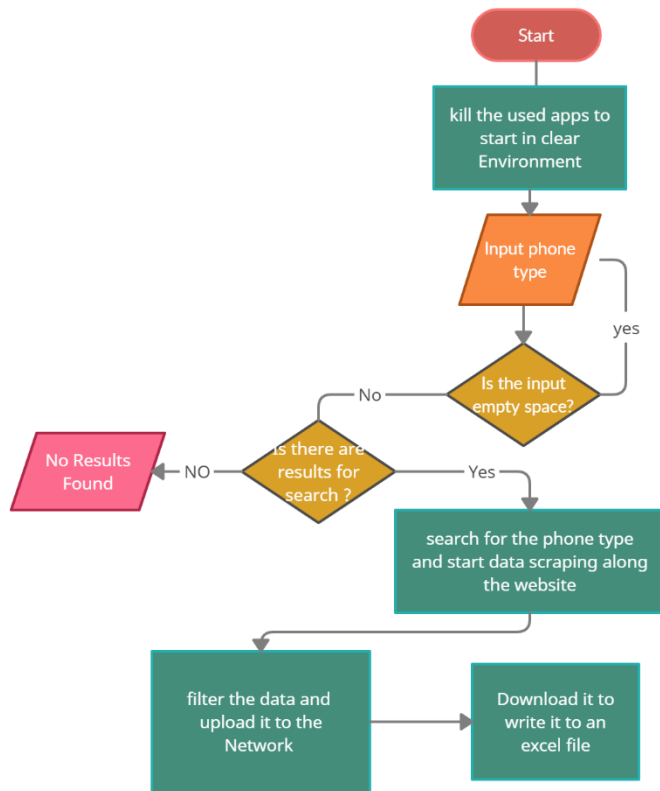


**Detailed Process Map:** This chapter depicts the To-Be automation process at a detailed view to enable developers/COE to see the workflows involved in the RPA solution

| Workflow Name | Description | Pre-conditions | Post-actions | Arguments | Notes |
|---|---|---|---|---|---|
| kill all apps | Use the Kill Process activity to force the termination of the Windows processes representing applications used in the business process being automated. Note that killing processes might have undesirable outcomes, such as | N/A | Clear environment to start | N/A | Reused |

| | | | | | |
|---|---|---|---|---|---|
| | losing unsaved changes to files. | | | | |
| initialize apps | Initializing the input dialog to allow the user to enter the phone type and then open applications used in the process and do necessary initialization procedures before data scraping | N/A | opened chrome on the desired search page of the phone type | out_Mobile_Type( String) | N/A |
| Get the Data | Check if bot found results or not. if it founds results then it get the data from multiple page up to 100 result then it will filter the data to find the handsets only. Once the data is ready then the bot will prepare it to next phase. | Google chrome is opened on the search page with the desired phone type. | data scraped | In_Mobile_Type (String) &Out_no_Results (Boolean) | N/A |
| mail the file | Mail the file if it is ready using SMT Protocol (using non-personal email to make the bot works from different users) | excel file with the name of searched phone type in the project folder | mail is sent | In_Mobile_Type (String) | N/A |
| kill all apps final | Use the Kill Process activity to force the termination of the Windows processes representing applications used in the business process being automated.Note that | N/A | Clear environment after excution | N/A | Reus ed |

| | killing processes might have undesirable outcomes, such as losing unsaved changes to files. | | | | |
|---|---|---|---|---|---|

## II.   Robot Type

| # | Attended | Unattended | Trigger | Comments |
|---|---|---|---|---|
| 1 | ✓ | | | |

## III.   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 | Doesn't accept empty space if asked about the phone type | | | Retry to enter again |
| 2 | Show only Handsts | | | Filter data |

## Unknown Exceptions

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

# IV. 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 | Chrome doesn't respond | N/A | N/A | Retry opening again |
| 2 | The mail server doesn't respond | N/A | N/A | Message that server doesn't respond |