Process Definition Document

*Process Name: Invoice Scraping*

Table of Contents

[**Introduction**](#_fmc2ik42b62t) **1**

[Purpose of the Document](#_8b0nhjcbe7cw) 1

[Objectives](#_soa72miybokv) 1

[Process Key Contact](#_e5eh7vtp3elw) 1

[Minimum Prerequisites for Automation](#_8uc76jjm25ud) 1

[**As-Is Process Description**](#_mdr6kpc5a5r5) **2**

[Process Overview](#_vrc3lxjwb5na) 2

[Applications used in the Process](#_in5ehl2op8tm) 3

[As-Is Process Map](#_3xrlx7nhtlp7) 3

[**To-Be Process Description**](#_gmvdjkbe065o) **4**

[Detailed Process Map](#_nmn90y3pi1ee) 4

[Robot Type](#_cx5ym07ptgjk) 4

[Business Exceptions Handling](#_7u1z1cuc6dh1) 4

[Known Exceptions](#_jr6jw3koor93) 4

[Unknown Exceptions](#_57bwdp6ycy5h) 5

[System Exceptions Handling](#_1os2bz2dwbrb) 5

[**Other Observations**](#_bsbyy5x0t0oj) **5**

[**Additional sources of process documentation**](#_ms60s1nz1shm) **5**



# 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 process has been selected for RPA as part of the project initiative conducted within Techno Computers Inc., the Finance department.

The objective of this process automation is linked to the project business case and is mainly intended to:

* Deliver faster processing
* Reduce redundant activities
* Improve overall performance and reliability

## 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 | Niyaz Ahmed | [niyaz.ahmed@uipath.com](mailto:niyaz.ahmed@uipath.com) +91-9870333008 |  |
| Business Analyst | Niyaz Ahmed | [niyaz.ahmed@uipath.com](mailto:niyaz.ahmed@uipath.com) +91-9870333008 |  |

## 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 | Invoice Scraping |
| 2 | Process Area | Personal |
| 3 | Department | Finance |
| 4 | Process Short Description  (operation, activity, outcome) | A process that will scrape relevant data from the invoices for further processing. The Robot will read through emails and download the invoices received in the form of an email attachment as a PDF. It will extract specific data and store those values in an Excel spreadsheet and a subset of values will be uploaded to the Orchestrator Queue. And finally, the robot will email the spreadsheet to yourself when finished. |
| 5 | Role(s) required for performing the process | Any |
| 6 | Process schedule and frequency | Daily basis |
| 7 | # of items processed /reference period | 100-150 invoices |
| 8 | Process execution time | 4-5 seconds/invoice |
| 9 | Peak period(s) | Holidays & new year |
| 10 | Transaction Volume During Peak period | 400-500 |
| 11 | Total # of FTEs supporting this activity | 5 |
| 12 | Expected increase of volume in the next reference period | 10% |
| 13 | Level of exception rate | low |
| 14 | Input data | Invoices as an attachment over email |
| 15 | Output data | Order details uploaded to Orchestrator Queue |

\*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.

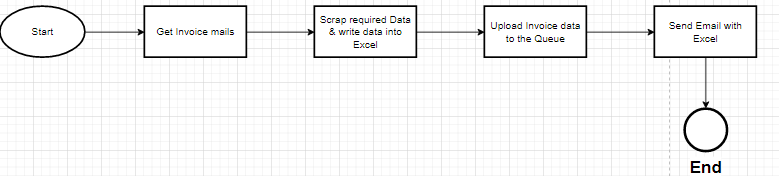
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| # | Application Name & Version | System Language | Thin/Thick Client | Environment/ Access Method | Comments |
| 1 | Gmail | English | Thin | PC |  |
| 2 | Microsoft Excel 2016 | English | Thin | PC |  |
| 3 | Adobe Reader PDF | English | Thin | PC |  |

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

**-------------Complete the rest of the document and submit along with your final submission.-------------**

## 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.



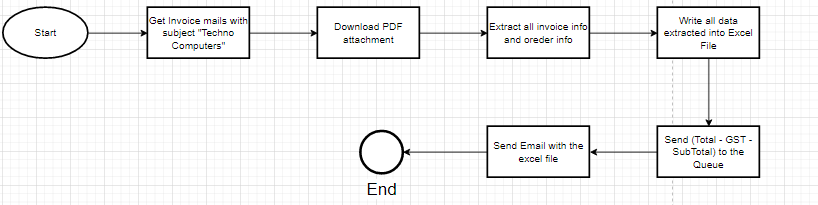
**Detailed Process Map:** This chapter depicts the As-Is business process at a detailed view to enable process owners to document their process

|  |  |  |  |
| --- | --- | --- | --- |
| # | Step Action/Description | Screenshot | Remarks |
| 1 | Download PDF Invoices from email in project folder. |  | Gmail is conncted to the Uipath Studio |
| 2 | Extract data from Invoice. |  | Invoice items and data |
| 3 | Upload SubTotal – Total – GST for the invoice into the Queue |  |  |
| 4 | Send the Order Information Invoice to the email within Excel file |  |  |

# 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.



**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** |
| Read\_And\_Download | Read emails and download Invoices | | Gmail is connected to uipath  Path where Invoices will be downloaded is exist or to be created | One Invoice at lease Downloaded | Out\_boolAttachments  Out\_pathAttachments  Out\_excpetion |  |
| End\_bot | End bot send mail notification and stop the process if there is no any invoices found or exception occurred in above workflow | | NA | NA | in\_exception |  |
| ScrapPdf | Extract Invoice Data | | PDF text is not empty | Data was written to Excel file successfully | out\_fileName  out\_subTotal  out\_gst  out\_total  in\_pdfText  in\_attachment |  |
| Orchestrator\_Queue | Upload Invoice data into Queue | | The data required to be uploaded is not empty | The data uploaded into the queue successfully | in\_subTotal  in\_total  in\_gst |  |
| SendMail | To send Invoice Excel to mail | | The invoice Excel file is not empty | Email is Sent | In\_fileName |  |

## Robot Type

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

## 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 |
|  | PDF file is empty |  |  | Skip this invoice continue to next invoice add it to list of failed to be sent into mail output |
|  | Failed to get data required like GST |  |  | Skip this invoice continue to next invoice add it to list of failed to be sent into mail output |
|  |  |  |  |  |

### Unknown Exceptions

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

## 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 |
|  | Connecting to Gmail is Failed |  |  | End bot and send email notification |
|  |  |  |  |  |
|  |  |  |  |  |

For all the other unanticipated or unknown system exceptions, send an email to **<placeholder>** and attach a screenshot of the error message.

# Other Observations

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

# Additional sources of process documentation