



Student Exam Scheduler

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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 business objectives and benefits expected by the University after automation of the selected business process are:

* Creating an event in the specified Google Calendar account for each exam of the given student
* Sending an email to the given student after updating his Google Calendar

### 

## I.3 Minimum Pre-requisites for automation

1. Excel document filled with the student data
2. The University’s files with the exam dates
3. Access to an already logged in Google account
4. Access to Google Chrome browser and internet

## 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** | Calculate Client Security Hash |
| 2 | **Process Area** | Security |
| 3 | **Department** | Finance and Accounting |
| 4 | **Process short description**  (operation, activity, outcome) | Generate the Security Hash for each Client based on their personal information. |
| 5 | **Role(s) required for performing the process** | ACME System 1 – Role name Fin ACC:  Module “ Work Items” – Rights “ Read &Write” |
| 6 | **Process schedule and frequency** | Daily, Monday to Friday, 9 am – 6 pm |
| 7 | **# of items processes /reference period** | ~450/ day business as usual |
| 8 | **Average handling time per item** | 3 min |
| 9 | **Peak period (s)** | Beginning of month, usually from 28th to 30th day of each month |
| 10 | **Transaction Volume During Peak period** | 600 |
| 11 | **Total # of FTEs supporting this activity** | 3-4 |
| 12 | **Expected increase of volume in the next reference period** | Volumes will increase with 20% |
| 14 | **Input data** | Client Data from ACME Systems 1 |
| 15 | **Output data** | Client Security Hash uploaded in ACME & task completed |

*\*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 | Email | EN | Thick Client | Google Chrome | Email Sending |
| 2 | Google Calendar | EN | Thick Client | Google Chrome | Create an event |
| 3 | Microsoft Office | EN | Thick Client | Microsoft Office | Word and Excel documents |

### 

## II.3 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 As-Is Process Map:

This chapter depicts the AS IS business process in detail to enable the developer to build the automated process.



## II.4 Detailed AS IS Process Steps

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Detailed As-Is Process Steps | | | | | |
| Step | Input | Description | Details (Screen/ Document/ Video recording Index) | Exception Handling | Possible Actions | Business Rules Library Index |

*See doc attached*

****

## II.5 Input data description

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Step | Sample  (Printscreen) | Input type | Location | Inputs are standard? (Yes/ NO) | Inputs are structured? | Data to be used from |
| 6 | See WI5\_ Detailed Process | Screen | n/a | YES | YES | Client Name  Client ID  Client country |

*\* Inputs are* ***standard*** *if the content is positioned in the same place even if the input types are different.*

*Eg: a process that uses at each transaction the same template, so fields to be extracted are always fixed..*

*Inputs are* ***structured*** *if it is machine readable and digital. Scanned PDF Images/ Free flow texts in Emails are unstructured inputs*

# To BE Process Description

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

### 

## III.1 TO BE Detailed Process Map

*Highlight Bot interventions/ to-be automated steps with different legend/ icon (purple)*



*\*Mention below if process improvements were performed on the TO BE design and detail them*

|  |  |
| --- | --- |
| Legend |  |
| https://documents.lucidchart.com/documents/819ed6e9-92ca-4bb5-a252-ae163eefa005/pages/0_0?a=329&x=338&y=177&w=45&h=24&store=1&accept=image%2F*&auth=LCA%200c7feee77c46d7c6c69488f11cbe96f19bf0594e-ts%3D1493894635 | Step number in the process. Referred in the details or Exceptions and Errors table |
| https://documents.lucidchart.com/documents/819ed6e9-92ca-4bb5-a252-ae163eefa005/pages/0_0?a=329&x=999&y=380&w=43&h=39&store=1&accept=image%2F*&auth=LCA%20244af2796a97c79ad184dd5f891d199a5aaaa18e-ts%3D1493894635 | This process step is proposed for automation |
|  | This process step remains manual (to be performed by human agent) |

## III.2 Parallel Initiatives/ Overlap (if case)

This chapter captures the proposed Business, Process & System changes in near future and its impact

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S.No | Initiative Name | Process Step(s) where it is identified | Impact on current automation request? How? | Expected Completion Date | Contact person for more details |
|  | n/a |  |  |  |  |

## III.3 In Scope for RPA

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

1. *Steps 1-10*

## 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 |
| *1.1* | *1.1.3* | *Input: handwritten form* | *After processing step 1.1.2, an email is sent to the user to perform step 1.1.3 in a csv file*  *In order to go to step 1.1.4 the robot will read the csv file* | *Collect the form in an editable pdf format and electronically signed* |

*\*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** | Hash ID <> 40 characters | n/a | Hash ID | Send email with screenshot to [exceptions@acme-test.com](mailto:exceptions@acme-test.com)  “Hash ID <> 40 characters”  Go the next transaction |

#### 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:

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

## 

## III.7 Reporting

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Report type | Update frequency | Details | Monitoring Tool to visualise the data |
| ***1*** | Process logs | Daily | How many times was this process run since the beginning of the month and what was the average run duration? | Kibana |
| ***2*** | Process logs | Monthly | How many robots worked on this process per each month? | Csv file posted daily on sharedrive |
| ***3*** | Transaction logs | Daily | How many transactions were run by this process since the beginning of the month and what was the average transaction duration? | Kibana |
| ***4*** | Error logs | Daily | Average number of errors by type per day | Kibana |
| ***5*** | Error logs | Daily | All errors per month grouped by type | Csv file posted daily on drive |

*\* For complex reporting requirements, include them into a separate document and attach it to the present documentation*

## 

## Other Observations

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

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

## Additional sources of process documentation

If there is additional material created to support the process automation please mention it here, along with the supported documentation provided.

|  |  |  |
| --- | --- | --- |
| Additional Process Documentation | | |
| **Video Recording of the process [Optional]** | *ACME-System1-Process-WI5-Manual-Walkthrough* | *Insert any relevant comments* |
| **Standard Operating Procedure (s)**  **(Optional)** |  | *Insert any relevant comments* |
| **Business Rules Library**  **(Optional)** | *Insert link to Business rules library* | *Insert any relevant comments* |
| **Other documentation**  **(Optional)** | *Insert link to any other relevant process documentation (L4, L5 process description, fields mapping files etc)* | *Insert any relevant comments* |

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