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**Process Definition Document**

<*MARVEL SUPERHERO CHARACTER RESEARCH COMPILATION PROCESS*>

**Version: approval for development**

**Document History**

|  |  |  |  |  |
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| 24/07/2024 | 1.0 | Lia Wilkinson | ABP | Initial Draft |

**Document Approval Flow**

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| 1.0 |  | SME | Waseem Butt |  | 24/07/2024 |

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# 1. Introduction

## **I.1 Purpose of the document**

The Process Design Document outlines the < *MARVEL SUPERHERO CHARACTER RESEARCH COMPILATION PROCESS* >

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 Business Process Owner after automation of the selected business process are:

|  |  |
| --- | --- |
| Objectives | Benefits |
| Reduce manual and repetitive tasks | Reduce Team load |
| Reduce backlog | Faster response |
| Process standardization | Increase accuracy |

## **I.3 Process key contact**

This 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 complete set of process exceptions. The names must be included in the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| Role | Name | Contact details  (email, phone number) | Notes |
| Process SME |  |  | Point of contact for questions related to process details & exceptions |
| Process Reviewer |  |  |  |
| Process Owner/ Approver for production | Waseem Butt | Waseem.butt@schoolofautomation.tech |  |
| Process Developer | Lia Wilkinson | [Lia.wilkinson@schoolofautomation.tech](mailto:Lia.wilkinson@schoolofautomation.tech), 012873121251 |  |

## **I.4 Minimum Pre-requisites for automation**

* Completed in Process Definition Document, with ‘As-Is’ and ‘To-Be’ solution signed off by all relevant parties involved
* <Remaining Automation>

# 2. 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** | *MARVEL SUPERHERO CHARACTER RESEARCH COMPILATION PROCESS* |
| 2 | **Process Area** | *HUMAN RESEARCH AFFAIRS* |
| 3 | **Department** | *ESPIONAGE* |
| 4 | **Process short description**  (operation, activity, outcome) | *An excel file is handed containing the keyword of a particular Multi-verse, we are tasked with searching using that specific reference on Marvel.com all characters listed under this specific Earth, to which we complete a designated Excel file under the respective columns. We email this back.* |
| 5 | **Role(s) required for performing the process** | *Operations Analyst* |
| 6 | **Process schedule and frequency** | *Daily* |
| 7 | **# of items processes /reference period** | *800-1000* |
| 8 | **Average handling time per item** | *1-2mins* |
| 9 | **Peak period (s)** | *Random depends if there is a special request, we could get multiple Earths requested same day.* |
| 10 | **Transaction Volume During Peak period** | *2000-3000* |
| 11 | **Total # of FTEs supporting this activity** | *1 Person spending 8hrs a day or until the task completion* |
| 12 | **Expected increase of volume in the next reference period** | *None* |
| 13 | **Level of exception rate** | *20-30%* |
| 14 | **Input data** | *Excel* |
| 15 | **Output data** | *Excel* |

## **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 | Chrome Browser | English | Thick | Desktop Application |  |
| 2 | Adobe Acrobat - PDF | English | Thick | Desktop Application |  |
| 3 | Microsoft Excel | English | Thick | Desktop Application |  |
| … | … | … |  |  |  |

## **II.3. AS IS Process map**

### High-level process map

<High Level process>

### Low level process map

<Detail low Level process>

## **II.4. Detailed AS IS process steps**

|  |  |  |
| --- | --- | --- |
| Step | Description | Details (Screenshot) |
| 1.1 | **Open Edge** | **<image>** |
| 1.2 | **Navigate to https://outlook.office.com/mail/** |  |
| 1.3 | **Log In** |  |
| 1.4 | **Look for “RESEARCH PROTOCOL – 616”** |  |
| 1.5 | **Download Microsoft Excel** |  |
| 1.6 | **Open Microsoft Excel** |  |
| 1.7 | **Navigate to https://marvel.com** |  |
| 1.8 | **Navigate to the top right-hand corner and click the Magnifying Glass Icon** |  |
| 1.9 | **Input into the search bar, ‘Earth-616’ and press Enter** |  |
| 2.0 | **Filter results by clicking ‘CHARACTERS’** |  |
| 2.1 | **Click on the first character profile that appears in the Search Results** |  |
| 2.2 | **Check that the character has an ‘In Comics Profile’** |  |
| 2.3 | **Alternatively, if they do not have an ‘In Comics Profile’, check if the character has an ‘On Screen Profile’** |  |
| 2.4 | **Highlight and copy name** |  |
| 2.5 | **Open Excel and input the copied text under the ‘Name’ tab.** |  |
| 2.6 | **Highlight and copy the description** |  |
| 2.7 | **Open Excel and input the copied text under the ‘Bio - Short’ tab.** |  |
| 2.8 | **If 2.2/2.3 (There is no In Comics Profile and On Screen Profile) just input ‘ESCALATED’ in the Bio-Short** |  |
| 2.9 | **Re-Open the Microsoft Edge Window and Click ‘In Comics Profile’ or ‘On Screen Profile’** |  |
| 3.0 | **Scroll Down to until you see the Powers. Screen Scrape this Power Name.** |  |
| 3.1 | **Open Excel and input the copied text under the ‘Primary Power Name’ tab.** |  |
| 3.2 | **Re-Open the Microsoft Edge Window and Screen Scrape the description of the Primary Power.** |  |
| 3.3 | **Open Excel and input the copied text under the ‘Primary Power Description’ tab.** |  |
| 3.4 | **Re-Open the Microsoft Edge Window and Screen Scrape the names of Connections** |  |
| 3.5 | **Open Excel and input the names of the Connections under the ‘Connections’ tab. Separate the names by ‘,’s.** |  |
| 3.6 | **Input the number given during the email after the planet name under the ‘Earth’ tab.** |  |
| 3.7 | **Open Microsoft Edge and copy the URL of the character profile.** |  |
| 3.8 | **Open Excel and input the copied URL under the ‘URL’ tab.** |  |
| 3.9 | **Press the Back Arrow after completing the Entry, and repeat the process.** |  |
| 4.0 | **Check if the URL matches any previous entry – to avoid duplicates. And Move onto the next entry.** |  |
| 4.1 | **Save the File** |  |
| 4.2 | **Re-Open Outlook, and click the ‘Reply all’ button** |  |
| 4.3 | **Attach the new Excel Spreadsheet** |  |
| 4.4 | **Click Send** |  |
|  |  |  |

# 3. TO BE Process Description

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

<Detail of process>

|  |  |
| --- | --- |
| Legend | Description |
|  | Action number in the process. Referred to in details or Exceptions and Errors table. |
|  | This process action is proposed for UiPath automation. |
|  | This process action remains manual (to be performed by a human agent). |
| Cog, gear, settings icon | This process action will be automated as a Service |

## **III.1 TO BE Detailed Process Map**

### High-level process overview

A screenshot of a computer

Description automatically generated

### Low Level process overview

A screenshot of a computer

Description automatically generated

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Initiative Name | Process Step(s) where it is identified | Impact on current automation | Expected Completion Date | Contact person for more details |
|  |  |  |  |  |  |

## **III.3 In Scope for RPA**

The automated process will be developed as described in this document.

## **III.4 Out of Scope for RPA**

The following will be considered out of scope for this automated process:

* <Details missing>

## **III.5 Business Exceptions Handling**

### 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 |
|  |  |  |  |  |
|  |  |  |  |  |

### Unknown Exceptions

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

* Take a screenshot and save locally.
* <Other details>

## **III.6 Application Error and Exception Handling**

### Known 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  Take Screenshot  Close the applications and run the sequence again |
| 2 | Timeouts | Any step | Error message | Recover & retry for maximum 3 times  Take Screenshot  Close the applications and run the sequence again |

### Unknown Errors and Exceptions

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

* Take a screenshot and save locally.
* <Other details>

## **III.7 Reporting**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Report type | Update frequency | Details | Monitoring Tool |
|  |  |  |  |  |

# 4.Other

## **IV.1 – Acronyms**

|  |  |
| --- | --- |
| Abbreviation | Long Form |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## **IV.2 – Glossary of RPA Terms**

|  |  |
| --- | --- |
| Term | Description |
| UiPath | The Robotics Process Automation tool used to automate this process. |
| Dispatcher | The initial stage of the automated process, where all the information that is needed for the processing of a work item is gathered and added to an automation queue of work. |
| Performer | The stage of the automated process that performs the work. It uses all the details gathered by the dispatcher to execute a complete run of a work item. |
| Orchestrator | The Orchestrator is a UiPath Webservice that manages and orchestrates automations. |
| Orchestrator Queue | This is the queue that the dispatcher adds the data to. |
| Queue Item | This is where the data extracted is stored in an item by item basis. It is analogous to the work ticket in Freshdesk. |
| Validation Queue | This is the queue of invoices that Abbyy requires human validation for due to the characters falling below the Confidence Threshold Level. |
| Exceptions Queue | This is the Freshdesk exceptions queue. Items will be moved here if they encounter specific exceptions that require a human to manually perform the process. |

## **IV.3 –** **Additional sources of process documentation**

|  |  |  |
| --- | --- | --- |
| Type | Link or Attachment | Comments |
| Video Recording of the process |  |  |
| Business Rules Library |  |  |
| Other documentation |  |  |
| Standard Operating Procedure(s) |  |  |
| Input Files |  |  |
| Output Files |  |  |