

# Robotic Process Automation Development Specifications Document (DSD)



*Process Name: PersonalUseProject*

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### Version Control

Date	Version	Role	Name	Organization Department	Function	Comments
	1.0	Author	Neha Verma			

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## I. Document Overview

The Development Specifications Document (DSD) is created for every business process automated using RPA. The DSD needs to be reviewed and updated for every change requested and applied to the automated process. This document provides a technical snapshot and must always reflect the latest design and key features of the automated workflow.

The document naming convention will follow the naming convention and the version of the automated process. This can be "business process name version" or it can be defined, case by case, as part of the larger RPA project design.

This document is completed by the RPA Solution architect and RPA developer who automates the business process. It is reviewed by the business process owner, application owner, and CoE design authority.

This document is meant to assist the RPA COE, IT operations and process owners by providing a snapshot of the automated process details and components. It can also serve developers to have a quick glance at the setup, before diving into the code, to troubleshoot or update changes. The purpose of the document is to record the outcome specific to the automated master project and its subcomponents: projects, workflows, sequences etc.

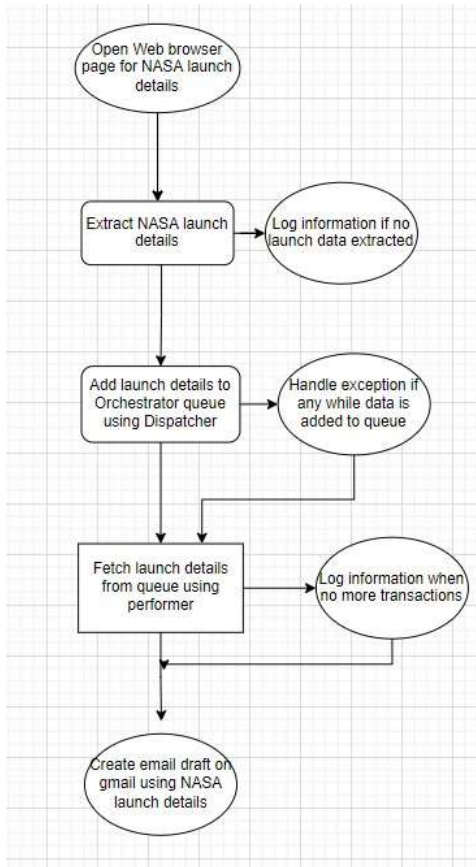
## II. Master Project Details

Details filled in by the developer reflect the actual information for the master project released for production.

#	Item	Details Fill in with free text. If not applicable, mark the field as "N/A". No empty fields.
1	Master Project Name and Version	PersonalUseProject
2	Robot Type (attended/unattended/mix)	Attended
3	Is Orchestrator used? (Yes/No)	Yes
4	Scalable? (Yes/No) Can the process be run by multiple robots in parallel?	No

### III. Runtime Guide

#### 1. Runtime Diagram



#### 2. List of Packages

Include **the list of packages and the high level description** for each of them, to explain each one's purpose:

#	Package Name	High-Level Description
1	NASA	This folder contains workflow which involves browsing to NASA launch URL and extracting launch details
2	Dispatcher	This folder contains workflow dispatcher which adds items to queue in orchestrator
3	Performer	This folder contains workflow for performer which gets transaction items from queue
4	Email	This folder contains email related workflow

5		
6		

\*Add more rows to the table to include all the project names and versions. No fields should be left empty. Use "N/A" for the items that don't apply to your project.

### 3. Master Project Runtime Details

Details of the automated process:

#	Item	Details (Fill in with free text. If the section does not apply to your automation, mark the field as "N/A". No empty fields. )
1	Production Environment Details	Windows 11 machine at path C:\Users\admin\OneDrive\Documents\UiPath\PersonalUseProject
2	Prerequisites to run	Assets added to orchestrator, Installing Chrome browser, UiPath studio
3	Input Data	Gmail credentials added to Asset, NASA launch url added as asset
4	Expected Output (output data)	Launch detail of NASA gets created as draft in gmail
5	How to start the automated process?	Manual click on uipath assistant to run the robot
6	Resuming the process from a particular step	
7	Reporting queues reporting, Kibana or another platform	
8	Manual Error Handling roll back or manually complete failed transactions. Procedures to reset the item. Ex "set status as investigating"	
	A. How to resume the process in case of error	
	B. How to manually fix transactions with error	
9	Use of Orchestrator	

	A. Password Policies specific compliance requests?	
	B. Stored Credentials Never hard code credentials in the workflow	GmailCreds
	C. List of Asset Names	URL, GmailCreds
	D. List of Queues Name	PersonalUseProjectQueue
	E. Schedule Details	On script trigger
10	Recommended Resolution	

## IV. Project Details

In this section describe all the projects that compose the automated process.

For each project, describe the workflow(s) in the logical order that they are called in.

If the workflow is a flowchart, also include the exported image from Studio.

If the automated process is composed of multiple projects, copy paste and fill in the table below for each project with its specific details (there are 2 here already, assuming a dispatcher and performer project)

### 1. Project Name: PersonalUseProject

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

#	Item Name	Details Fill in with free text. If not applicable, mark the field as "N/A". No empty fields.
1	Environment used for development name, location, configuration details etc	Production Environment Details Windows 11 machine at path C:\Users\admin\OneDrive\Documents\UiPath\PersonalUseProject
2	Environment prerequisites OS details, libraries, required apps	Assets added to orchestrator, Installing Chrome browser, UiPath studio
3	Logging level	Info and Warn
4	Details about automation	UI Automation

	if the apps were automated using UI Automation, Image & Text	
5	In case of attended bot, can the user operate the computer while the robot is running?	No
6	Repository for project where the developed project is stored	C:\Users\admin\OneDrive\Documents\UiPath\PersonalUseProject
7	List of reused components	
8	Custom logs defined in the workflows where Throw Activity was used or custom log message was defined	
9	Frequent errors found in the development phase	
10	Workarounds used in the automation phase	
11	Configuration method assets, excel file, json file	
12	Configuration details path for input files, configuration Orchestrator assets used	

## 1.1 Workflow(s) specific to the Project

Define below all the workflow files (.xaml files) used in the project, with the Input and Output data.

#	Workflow File Name	Description	Arguments	Comments
1	NavigateAndExtractNASA LaunchDetails	Navigate to NASA launch URL and extract launch details	out_NASADData	
2	DispatcherQueue	This workflow helps to move the NASA launch data to be moved to queue using orchestrator dispatcher mechanism	in_NASADData	
3	PersonalUseProjectPer	This workflow helps to	out_launchDate	

	former	move the NASA launch data to be moved to queue using orchestrator dispatcher mechanism.	out_launchDesc out_launchURL	
4	SendEmail	This workflow creates a draft over gmail with NASA launch detail.	in_launchDesc in_launchURL in_launchDate	

## V. Compliance Considerations and Reporting Requirements

- N/A

## VI. Other Details

### 1. Future Improvements

- We can add more customized inputs to even perform update for different work items.

### 2. Debugging Tips

- Write line or message box activities are effective way to pin point the issues.

### 3. Other Remarks

- The robot operations are working stable right now.

## VII. Post UAT Specifications

- Average duration per transaction (varies depending on the Test environment): 5-6 minutes
- Recommended number of robots for the specified volumes: 1
- Specified schedule: not applicable

## VIII. Glossary

- **Master project** - the overall output of the development, containing one or multiple projects that together cover the scope of the robotic process automation.
- **Project** - a UiPath Studio project containing one or multiple workflow files. A project can be converted to a package and run independently, covering a particular scope within the master project. The project is used when defining the development and support phase of the automation.



- **Package** - the output of compiling a project. A package can be deployed on the robot machine and be executed by the robot service. Only one package can be executed at a given time by a robot. The package is used when defining the running phase of the automation
- **Workflow** - a component of the package, the workflow encapsulates a part of the project logic. The workflow can be of type: sequence, flowchart or state machine. a workflow is saved as an .xaml file inside the project folder. A workflow file can be invoked from another workflow and by default there is an initial workflow file that will run when executing the package.
- **Activity** - an action that the robot executes.
- **Sequence** - a workflow where activities are executed one after another, in a sequential order
- **Flowchart** - a workflow where activities are connected by arrows and the logic of the workflow can be easily followed in a visual manner. The flowchart can also be exported as an image from UiPath studio
- **State machine** - a more advanced way of organizing a workflow, similar to a flowchart.
- **BOR** - Back office robot
- **FOR** – Front office robot
- **Orchestrator** – Enterprise architecture server platform supporting: release management, centralized logging, reporting, auditing and monitoring tools, remote control, centralized scheduling, queue/robot workload management, assets management.