Solution Design Document

UiPath

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I. PURPOSE

UiBank would handle their loan applications, these debt products can help you get over a financial hump, cover an unexpected expense, pay down debt faster or make a big-ticket purchase.

The focus of the Solution Architect will be on:

- Robustness;
- Scalability;
- Efficiency;
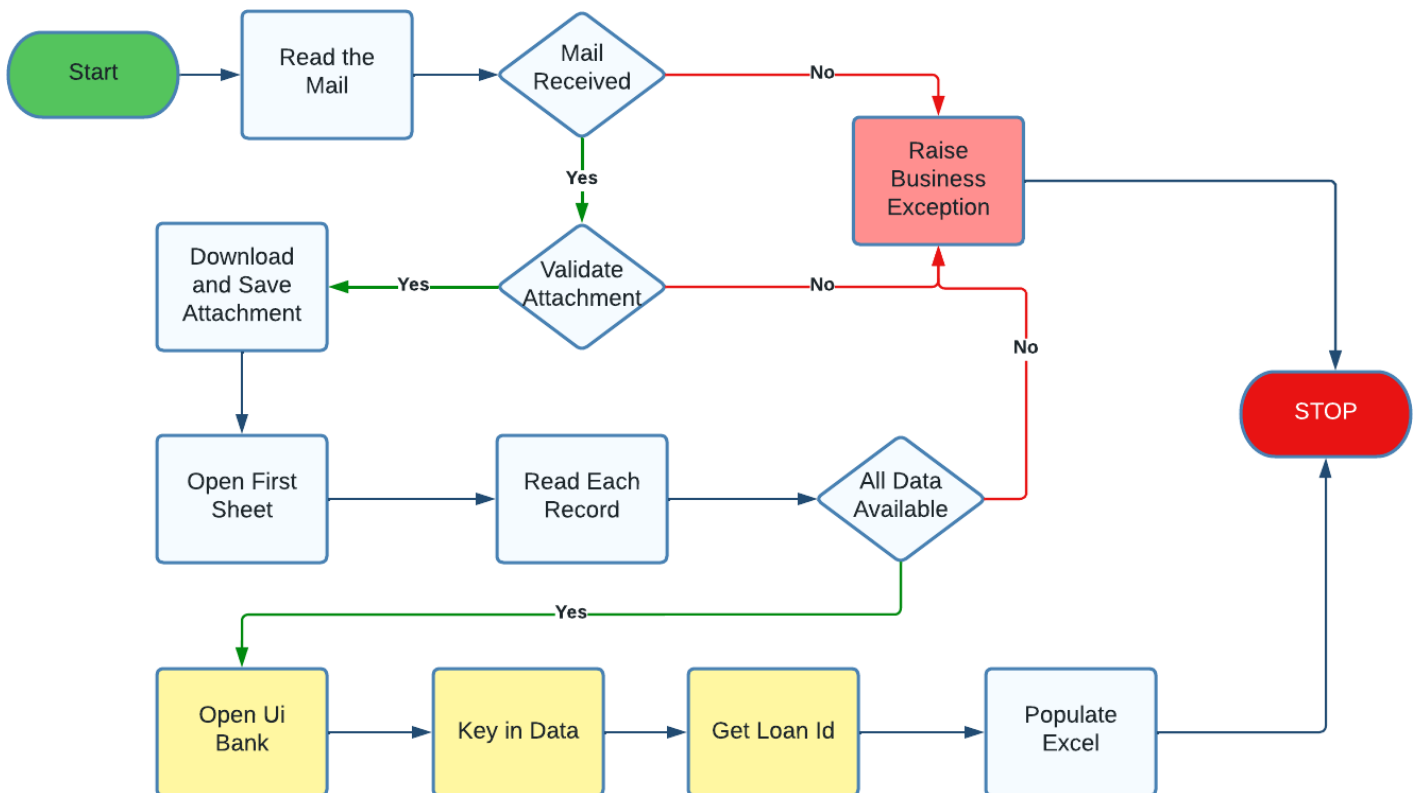- Replicability;
- Reusability of component

The information herein is targeted primarily at the developers that will initially implement the solution and subsequently at the support developers in case of change requests.

II. AUTOMATED PROCESS DETAILS

Details filled in need to reflect the actual information for the Master Project released for production. The following table will be populated:

Item	Description
Master Project Name	Loan Processing Application
Robot Type	Unattended
Orchestrator used?	Yes
Scalable	Yes
UiPath version used	2022.10

1.1 Architectural structure of the Master Project

1.2 Master Project Runtime Details

Outlines the details of the automated process by filling in the table below.

ITEM NAME	DESCRIPTION
Production environment details	Running on Window Virtual Machine
Prerequisites to run	Input Email with CSV File Attached
Input Data	1 valid CSV files UIBank Application
Expected output	1 e-mail with loan Numbers
How to start the automated process	Schedule from Orchestrator
Reporting	Orchestrator Logs
(queues reporting, Kibana or another platform)	NA
How is Orchestrator used?	The process will be schedules from orchestrator server (cloud.uipath.com)
Password policies	
(mention any specific compliance requests)	Orchestrator logs.
Stored credentials	Orchestrator used for scheduling and asset passwords.
List of queues names	NA
(Naming convention: ProcessName_QueueName)	NA
Schedule Details	Weekly, 6 A.M CET
Multiple Resolutions Supported? (in case of image automation / Citrix and VDI)	NA
Recommended Resolution	NA

1.3 Loan Processing Application

ITEM NAME	DESCRIPTION
Environment used for development (name, location, configuration details etc)	Windows VM
Environment prerequisites (OS details, libraries, required apps)	Windows 10, Assistant, license, Microsoft Excel, Microsoft Edge
Repository for project (where is the developed project stored)	www.github.com
Configuration method (assets, excel file, Json file)	Config and Assets

List of reused components	NA
List of new reusable components	NA

2 OTHER DETAILS

Future Improvements

Fill in any improvements that need to be considered for the future:

Example:
- *Optimize the processing algorithm*
- *Implement process error recovery (retry)*
- *Enable support for multiple template files*

Other Remarks

Please mention here any other points that you consider relevant for the automation process.

Example: The workflow should run every night at 7AM. Be careful not to schedule it before the report is generated by Zendesk.

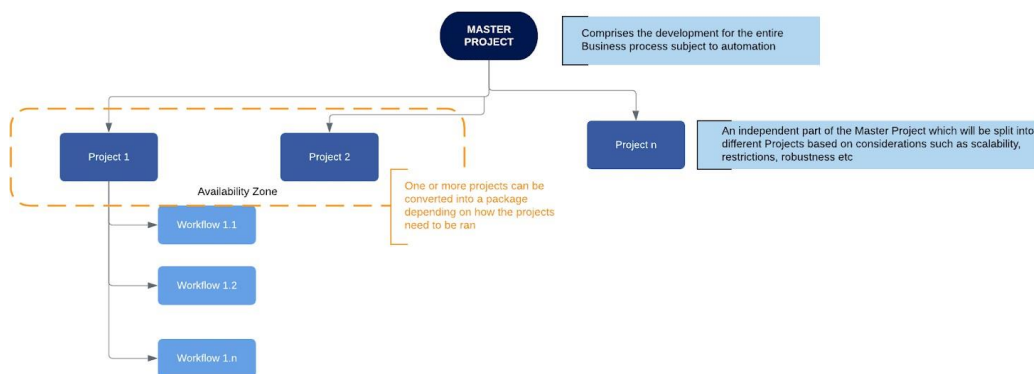The Zendesk generated data is always 1 day old.

3 GLOSSARY

The main terms used in the Solution Architecture Document are defined below:

Master project - the overall output of the development, containing one or multiple projects that together cover the scope of the robotic process automation. There is a 1 to 1 connection between the Master Project and the Process to be automated (As presented in the PDD).

Project - an 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. Or multiple projects can be converted into one package depending on the aims and restrictions of the automation. The project is used when defining the development and support phase of the automation.

Package - the output of compiling one or multiple projects. 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.