UiPath AutomationProcess Design Document

Project Name: Invoices Generator



Process Design Document History

Date	Version	Role	Name	Organization	
01.07.2	023 1.0	Draft	Animesh	uipath.	



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1. Introduction

1.1 Purpose of the document.

The Process Design Document describes the business processes chosen for automation using the UiPath Robotic Process Automation (RPA) technology. This document describes the sequence of steps performed as part of the process, as well as the conditions and requirements prior to its automation. This design document serves as a base documentation for developers to collect the details required for robotic automation of the same business process

1.2 Objectives

The process has been selected for RPA as part of the larger project initiative, the Finance and Accounting department. The objective of this process automation is linked to the project business case and is mainly intended to

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- ♦ Deliver faster processing
- ♦ Reduce redundant activities
- ♦ Improve overall performance and reliability

1.3 Process key contact

The Design Document includes a brief, but comprehensive set of requirements for the process. Its structure is based on the input provided by the Subject Matter Expert (SME) in the process.

Role		Date of action	Notes
Process SME	Animesh		Point of contact for questions related to business exceptions and passwords
Reviewer / Owner		TBD	POC for process exceptions
Approval for production		TBD	Escalations, Delays



2. AS IS Process Description

2.1 Process overview

General information about the process selected for RPA implementation, prior to its automation:

AS Is process details				
Process full name	Invoice generator			
Function	Cost-cutting, payment validation			
Department	Finance and Accounting			
process short description (operation, activity, outcome)	Process creates invoices with the help of data stored locally or remotely and update the respective recipient			
Role required for performing the process	System1 user			
Process schedule	Alternate days/daily			
# of item processes / day	7 – 15 Clients			
Average handling time per item	Average handling time per item			
Peak period (s)	No peak period			
# of FTEs supporting this activity	1			
Level of exception rate	no expected exceptions			
Input data	Client Data			
Output data	Invoice at mail or locally			



2.1.1 In scope for RPA

The activities and exceptions in this process that are in the scope for RPA, are listed below:

❖ Full Scope for RPA - the process is to be 100% automated.

2.1.2 Out of scope for RPA

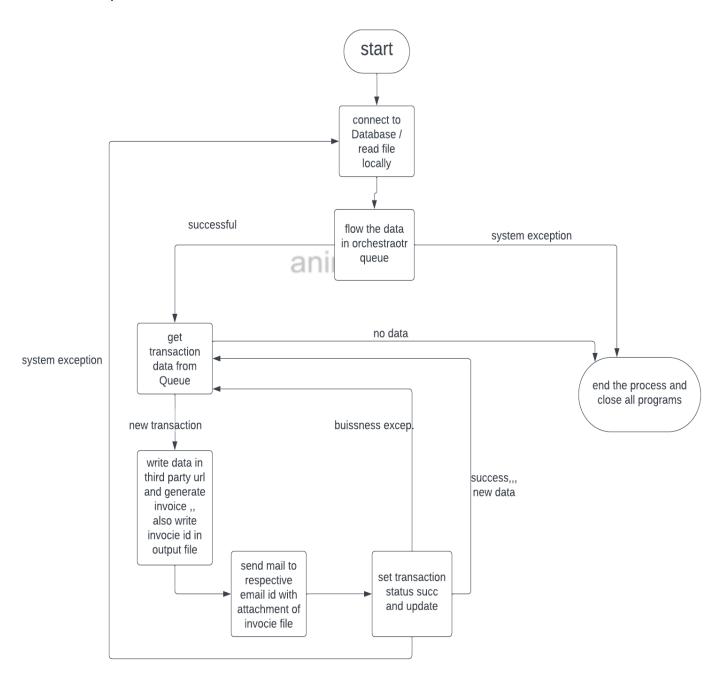
There are no activities out of scope for RPA

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2.2 Detailed Process map

This chapter presents the chosen process in detail, which enables the developer to build the automated process:





Step	Short Description
1.1	Open the Microsoft Edge browser with the URL of the invoice generator
1.2	Retrieve email attachment as data or get it from the local device
1.3	Update the data in Orchestrator queue
1.4	Optionally, use database connection to upload the data to the queue
1.5	Retrieve each item as a transaction item from the queue
1.6	In the process
1.7	Perform the invoice download procedure

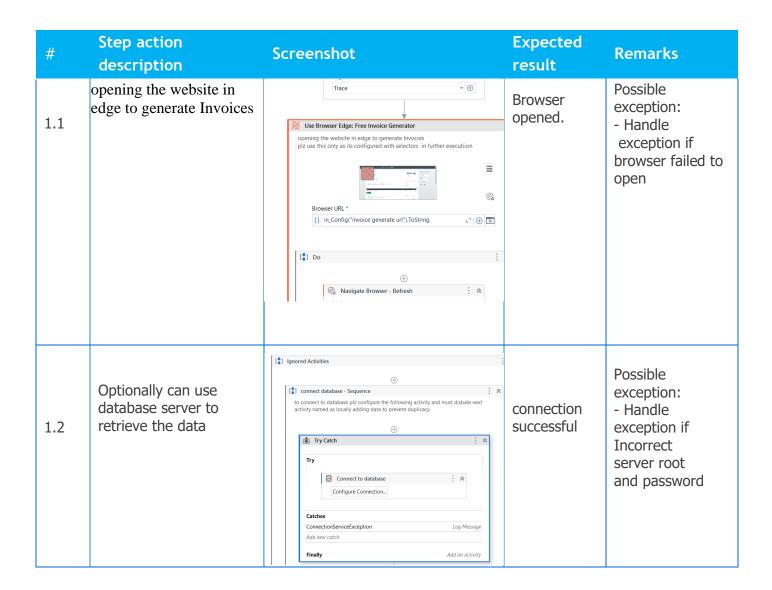


Step	Short Description
1.7.a	Use the browser to access the invoice generator website
1.7.b	Perform required operations on each detail of the item on the website
1.7.c	Configure the selectors to handle exceptions
1.7.d	Download the generated invoice
1.8	Write the invoice ID into the respective column of the output worksheet
1.9	Send an email to the respective email ID with the invoice attachment
2.	Continue with the next item in the queue

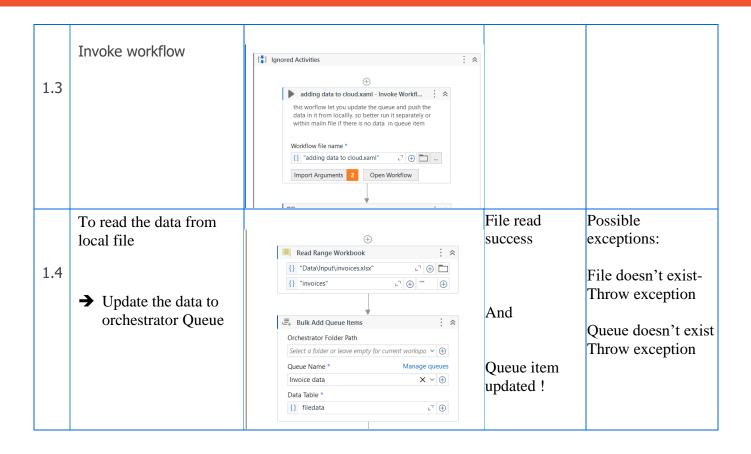


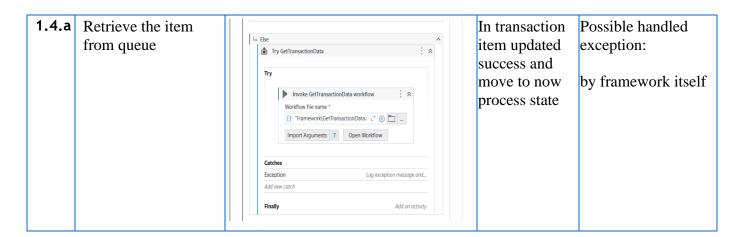
3. Detailed Process Steps

The complete set of steps performed in the process are given below with handed all kind of exceptons.











1.5	Invoke workflow in Process state Now	invocie download.xaml - Invoke Workflow Workflow file name * {} "invocie download.xaml" Import Arguments 15 Open Workflow		
1.5.a	Using use browser to type into the data in website and configure all selectors with accuracy more than 80-90%	## Try Catch Try	Should be able to complete with no errors and download invoice in specific path assigned	Possible exception handled: Browser failed to launch
1.5.b	All sub activities to be executed on website to fill the data	Type this "tur" Type this "tur" Type this "	Continue till the end of this and invoice download	Possible handled exception: if sub activity selector failed to configure
1.5.c	Log the message: Invoice generated successfully of {name} ,ID is { invoice id}	Log Message Message * {} "Invoice generated successfully of" + in_fil L" Log Level Info	Log success	NA



1.5.d	writing an invoice id to respective recipient column in worksheet	Try ** Sequence	Cell in sheet should be filled with invoice ID	If file doesn't exist handled with throw and move to next item
1.6	Invoke workflow to send smtp mail	mail to invoice email.xaml - Invoke Workflo : Workflow file name * {} "mail to invoice email.xaml"	NA	NA
1.6.a	Using activity send smtp mail message to send mail to respective recipient mail id with the attachment as invoice downloaded. Ex. Invoice #23021.pdf	Try Sequence Sequ	sent successfully to receiver email id with the	Possible exception handled: Email id not valid /no-exist And throw business exception And proceed another item in a queue.
1.7	Proceed with next Item in Queue.			



2.4 Exceptions handling

The types of exceptions identifiable in the automation process can be classified according to the table below.

Area	Known	Unknown
Business	Previously encountered situation. A possible scenario is defined, and clear actions and workarounds are provided for each case.	A situation never encountered before. It can be caused by external factors.

#	Exception Name	Step where exception is encountered	Parameters	Action to be taken
1.	Browser failed to open	1.1	If any unexpected error in system	Throw System exception Clean all the states and try again
2.	Database connection failed	1.2	Incorrect credentials	Incorrect credentials Stop process



		TII 0 1			
		Filenotfound	1.4	File doesn't exist	stop the
		Throw exception		and not queue	process
				too	,critical
		Queue doesn't exist		100	*
	_	Throw exception			error
	3.				
		Browsernotopened	1.5.a	System problems	Clean the
		exception			state and
	4.	•			retry
	••				100.7
-		Classification of the second second	4.5.1	1	1
		filenotfoundexception	1.5.d	Incorrect file path	Ignore this
	5.				and log
					message,
					Continue on
					next
					transaction
			animest		item
-		Invalid amail	1.0	lini in link a incatilitat	
		Invalid email	1.6	Invalid email id	Send report
		exception			to
	6				abc@gmail
					And update
					the status
					scenario in
					excel file .
1					EXCELLIE.

For any other unanticipated or unknown exceptions, the robot send an email notification at exceptions@abc.com with the original email and error message screenshot attached.



3. Development details

3.1 Prerequisites for development

Development or testing environment are to be provided for development purposes.

- ~ The provided development and testing environments are exact replicas of the production environment
- . ~ Dedicated system and application access are given to developers with the adequate permissions.

3.2 Password policies

Users manage their own passwords. There are no special policies in place.

3.3 Credentials and asset management

Login details (user IDs and passwords) should be stored under Windows Credential Manager or UiPath Orchestrator Assets

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