CitiusTech

A2019 Framework

Readme

Version 1.0

04/11/2020

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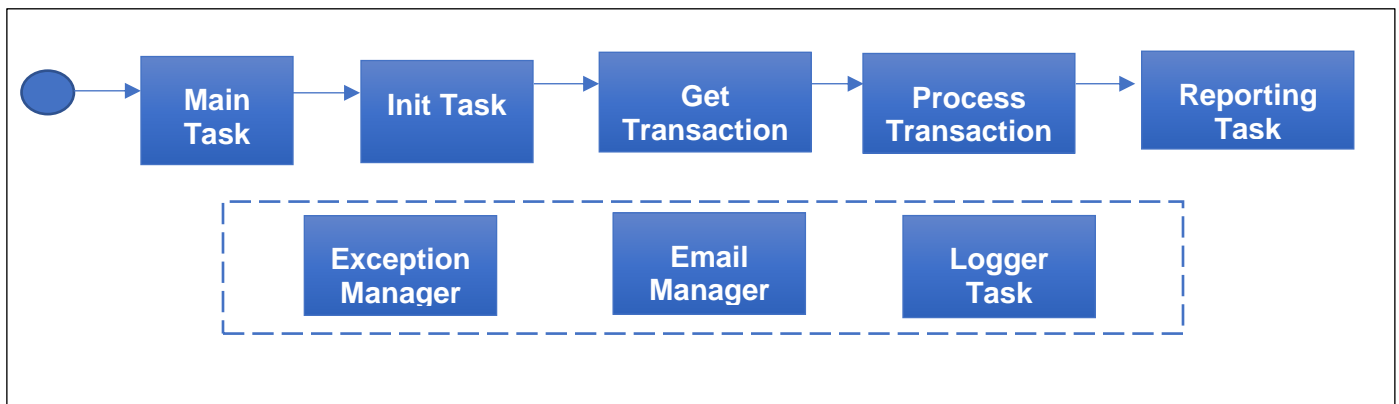
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1. Introduction

This document contains all essential information for the user to make full use of this A2019 Framework BOT. It includes a description of the functions and capabilities and step-by-step procedures for setup & configuration of the A2019 Framework BOT.

1.1 Overview

Description –

This piece of codes defines a framework for business processes with Bulk Input which is read from source file at once and then processed sequentially. It also includes Exceptional Handling and Logging block.

1.2 Use cases

The framework can be used in any Automation Anywhere process with Single Bot architecture

1.3 System Requirements

Enterprise A2019 (Cloud deployed) and Community Edition device requirements.
Review the machine hardware specifications, operating system versions, and browser types supported by Automation Anywhere Enterprise for creating and running bots and command packages as an Enterprise A2019 (Cloud deployed) or Community Edition user on your local machine.

1.4 Prerequisites

- Automation Anywhere A2019
- Microsoft Excel

2.   Getting Started

2.1   Quick Start

2.1.1   Setup

Import the A2019 Framework Package in the Control Room under Bots > Packages.

2.1.2   Configuration and Use

o *For Configuring the Bot –*

Variable Name	Type	Purpose
sFrameworkConfigPath	Global	User needs to store the config excel path
sSupport_Team_Email	Global	User needs to add a support team email address

o *Excel File Config –*

Name	Value (eg.)	Description
ErrorLogFolderPath	C:\temp\Error	Specify Error Log folder path to log error (Mandatory)
ProcessLogFolderPath	C:\temp\Process	Specify Process Log folder path (Mandatory)
DelayDuration	10	Define a global delay in seconds which is used throughout the framework
KillTaskApps	/im excel.exe	Specify application names to kill task
localUserPath	C:\User\Username	Specify your Local computer path
InputFolder	C:\temp\Input	Specify your Input Folder Path where all your input files will be stored
OutputFolder	C:\temp\Output	Specify output folder path where all your output files will be stored
LogDelete	30	Define a duration in days. It will delete error log and process log files older than specified value defined

2.1.3   Task Files

*** -- *Denotes more description about the task below*

Sr.No.	File Name	Description
1	1.0_Main	This is the Main Task
2	1.1_Read_Config	This is a child task to Read Config file ***

3	2.0_init	This is the Parent Initialize task and child to Main
4	2.1_Kill_Task	This is a child task to Init to kill all applications before starting the process ***
5	2.2.0_EnvironmentCleanup	This is a child task to Init to clean environment to avoid any failures
6	2.2.1_CacheClear	This is a sub Child Task to Environment Cleanup to Clear Cache of the Websites
7	2.2.2_LogArchive	This is a sub Child Task to Environment Cleanup to archive Log files for days as mentioned in config
8	2.3.0_Initialize	This is Child task to Initialize as in Launch websites or open any application involved
9	3.0_GetTransaction	This is the Parent task to Get data and child to Main
10	3.1_ReadFrom (Source Name)	This is Child task to Get Transaction – to read data from the i/p Source and put the data into array
11	3.2_UIScrapping	This is Child task to Get Transaction – to read and extract data from UI if applicable
12	4.0_ProcessTransaction	This is the Parent task to Process data and child to Main
13	4.1_ResetApp	This is a Child task to Process Transaction to Reset Application (that is to bring any applications to Home page, shall be necessary in processing the consequent records)
14	4.2_BusinessRules	This is a Child task to Process Transaction. This block will include any logic for Processing the records
15	5.0_Exception_Manager	This is a child task to Main, and handles the exception task ***
16	6.0_Logger	This is a child task to Main, and handles the Logger Task ***
17	7.0_GenerateReport	This is a child task to Main, and will include the logic to create Report

18	8.0_EmailManager	This is a child task to Main, and will include conditions to send Email and accomplish the task

Task Details

1.1_Read_Config – The Config File is read and values are stored in Dictionary. Dictionary Key is the Name field of excel config file and Dictionary value are the Value field of excel config file.

Eg.

Name	Value
ErrorLogFolderPath	C:\temp\Error
ProcessLogFolderPath	C:\temp\Process
DelayDuration	
KillTaskApps	/im winword.exe /im excel.ex
localUserPath	
InputFolder	
OutputFolder	
LogDelete	

Dictionary Key: ErrorLogFolderPath and Dictionary Value: C:\temp\Error

Config Dictionary is passed throughout the BOT and can be used by any child bot using the Dictionary Key to get the required value.

Note: No space is allowed in Name field of excel config

2.1_Kill_Task - Command prompt function – taskkill.exe has been used to Kill Tasks. User is supposed to mention the task names in excel config file in KillTaskApps value field in the following format.

e.g. /im excel.exe /im winword.exe

2.2.2_LogArchive – Error log files and process log files that are older than certain number of days as declared in excel config file under LogDelete field is deleted.

5.0_Exception_Manager – Exception Handling is done Globally. Every task has Try Catch block added. If an exception occurs it is passed to 5.0_Exception_Manager Task from catch block and error is logged.

Exceptions are logged in the folder mentioned in config file by user.

In the Exception Handler task the Error is logged in the Error log text file

6.0_Logger – In the main task a variable is initialized with the current Date & Time. This variable is passed to the Logger task to create a text file with the captured Date & Time. Throughout the BOT where ever Logging needs to be done the message is stored in a Variable through Variable Operation and the Logger task is called wherein the message gets logged.

7.0_GenerateReport – It will provide a report summary of all the transactions processed. It will consist of transaction id, transaction name. transaction status etc.

Sample Config File

	A	B	C
1	Name	Value	Description
2	ErrorLogFolderPath	C:\temp\Error	Add Error log folder path to log error
3	ProcessLogFolderPath	C:\temp\Process	Add Process log folder path to log process
4	DelayDuration	10	Define a global delay which will be used throughout the framework
5	KillTaskApps	/im winword.exe /im excel.exe	Add application names to kill task
6	localUserPath		Add your Local computer path eg. C:\user\username
7	InputFolder		Add your Input Folder Path where all your input files will be stored
8	OutputFolder		Add output folder path where all your output files will be stored
9	LogDelete	30	Define a duration in days to delete error log and process log files

Sheet tabs: **Data_Config** | User_Config | +

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4.   Support & FAQs

4.1   Support

Free bots are not officially supported.   You can get access to Community Support through the following channels:

- You can get access to Community Support, connecting with other Automation Anywhere customers and developers on APeople – the Bot Building Forum, the Bot Store Support Forum, or the Developers Everywhere Group.
- Automation Anywhere also provides a Product Documentation portal which can be accessed for more information about our products and guidance on Enterprise A2019.

4.2   FAQs

For questions relating to Enterprise A2019: See the Enterprise A2019 FAQs.

Appendix A: Record of Changes

Provide information on the version number, the date of the version, the author/owner of the version, and a brief description of the reason for creating the revised version.

No.	Version Number	Date of Change	Author	Notes

Appendix B: References

No.	Topic	Reference Link
1	Overview of Enterprise A2019	Click here
2	Guidance: Building basic A2019 bots	Click here
3	Guidance: Building A2019 action packages	Click here
4	APeople Community Forum	Click here
5	Automation Anywhere University	Click here