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# NTD RPA CHALLENGE - UIPATH

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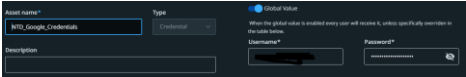## Instructions to Install the Bot in the Environment
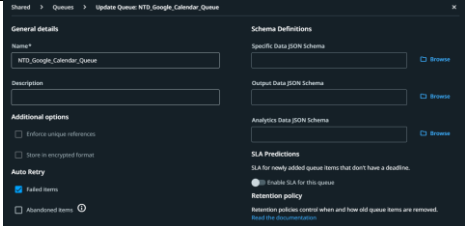
1. Create Assets below:
   Use a Modern Folder. In this example the Folder is called: Shared

| Name | Type | Value |
|---|---|---|
| NTD_Google_Calendar_Login_URL | Text | https://calendar.google.com |
| NTD_Google_Calendar_Logout_URL | Text | https://accounts.google.com/Logout |
| NTD_Google_Credentials | Credential | Inform Username and Password. The E-mail and Password must be valid.  |

2. Create a Queue

| Name | Value |
|---|---|
| NTD_Google_Calendar_Queue |  |

## Instructions to Run the Bot:

- Create the Assests Above
- Create the Queue Above
- Run Dispatcher (Main.xaml file)
  - Check the LogProcess.txt file
  - Check the GoogleEventsList.xlsx file
- Check the Items added to the Queue
- Run Performer (Main.xaml file)
- Check the Results in Performer Folder: \Data\Output:
  - EventsDetails.xlsx
  - EventsSummary.xlsx
  - LogProcess.txt

## Process execution time:

- Dispatcher: ~ 2 minutes

- Performer: ~ 13 seconds

## Assumptions:

- The E-mail and Password must be valid.
- The Language of the Google Account must be English.
- Default Browser is Google Chrome.
- If any Google Account is connect, the bot LogOut to ensure the correct login (e-mail) will be used by the process.
- Google Chrome Process is killed in the begging of the process.
- The Project uses ReFramework, Dispatcher and Performer built in Studio version: 2024.4.0
- The correct order to get all data correctly is to Run the Dispatcher (Main.xaml) and after Run the Performer (Main.xaml).
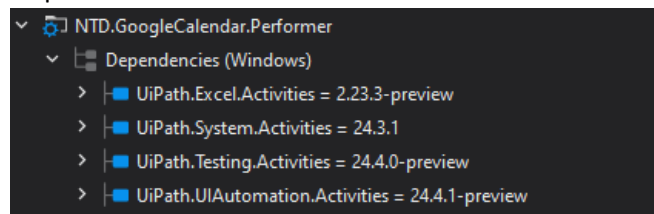- Projects:
  - NTD.GoogleCalender.Dispatcher
    - Dependencies:
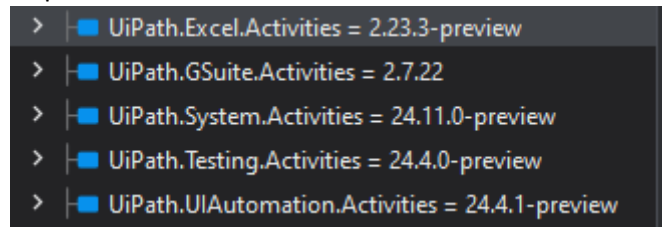
      

  - NTD.GoogleCalendar.Performer
    - Dependencies:

      

- Dispatcher generates 2 files in the folder: \Data\Output:
  - GoogleEventsList.xlsx -> List of the Events including the columns: Day, Month, Time, Title. This file was created to easily see a complete list of all Events from the Google Account informed.
  - LogProcess.txt -> List of all Log generate by the process.
- Performer reads a Queue and generate 3 files in the folder: \Data\Output:
  - EventsDetails.xlsx -> List of the Events including the columns: Day, Month, Time, Title. It is the Result from all Items from the Queue. It must be the same result as GoogleEventsList.xlsx file.
  - EventsSummary.xlsx ->
    - Summary of the events grouped by Weekday. Columns: Day, EventCount.
    - Total Events: Count of all Events.
    - Most Busy Day.
- Garbage Collection. All the files are deleted before the Bot processing.
- Log File. All the process records log into a file.

# Bonus

I have created the activity to get Google Events using GrapAPI ou API.