

Day 1 -- 10-01-2022

Project 1 video https://youtu.be/0ml2d_KXEVw

Lifecycle of RPA projects

1. Discovery
 - a. Understand or look of problems to solve
2. Analysis and Documentation
 - a. Create PDD(Process Definition Document) and SDD(Solution Design document)
3. Development
 - a. Actual coding with UiPath or any tool
4. Testing
 - a. Code review
 - b. Are the requirements met that we initially asked for
5. Deployment
 - a. Move code to production
6. Maintenance/Support
 - a. In case of errors solve them
- 7.

Task Capture

Download from here [Download UiPath Task Capture | UiPath](#)

1. Create PDD
2. Create Flow diagrams
3. Create Simple skeleton of the program

Re-framework

- Just a template

Usecase1 RPA Challenge

1. Document current process and understanding
 - a. As-IS Process
 - b. To-Be Process flow
 - c. Dependencies must be captured
 - d. All tools and applications must be taken
 - e. Who are the targeted users
 - f. What's the frequency of execution.
 - g. Manual hours saved on a year
 - h. FTE
 - i. Execution time – Daily at least 50 times, each time it taking 10 min
 - j. Data is structured
2. PDD Creation
3. Github
 - a. [GitHub Desktop | Simple collaboration from your desktop](#)

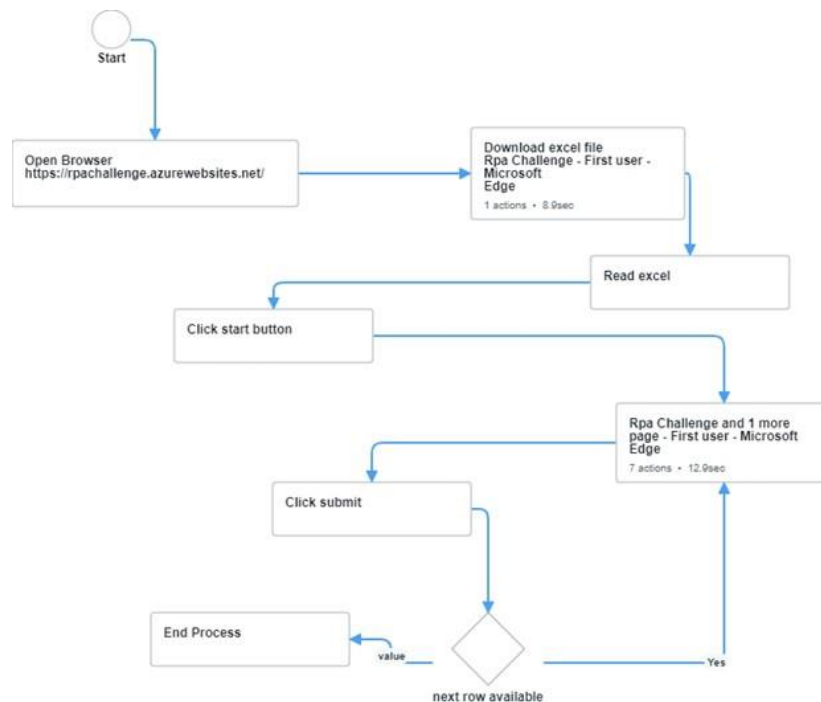
- b. [vajrang-b/RPA-Developer-in-30-Days: We will use this repo to understand and develop code, \(github.com\)](#)

Activities to complete

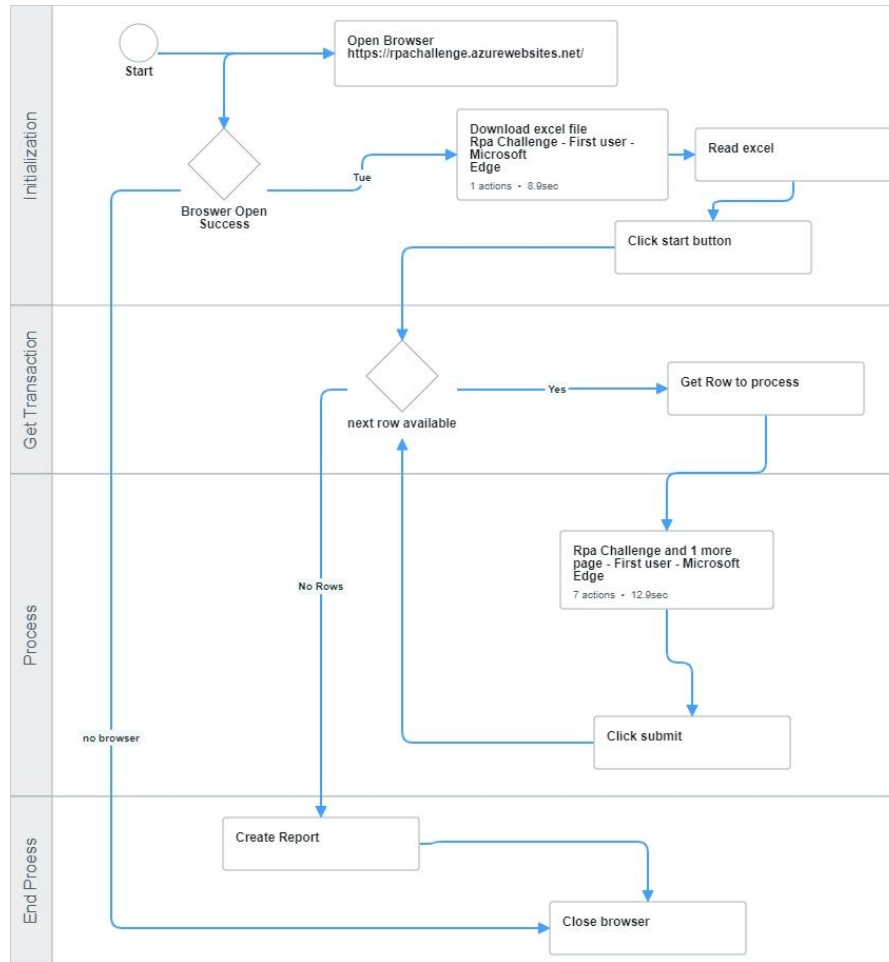
1. Download and install
 - a. task capture
 - b. Github desktop
 - c. Access teams and check with notes

Day 2 -- <https://youtu.be/gaoZDGfdz0s>

1. All team members must understand what other team member is writing
2. Any predefined structure?
 - a. Reframe work is must as it can act as base.
 - i. Init
 - ii. Get transaction data
 - iii. Process
 - iv. End Process
 - b. Basic structure explained
 - c. Day1



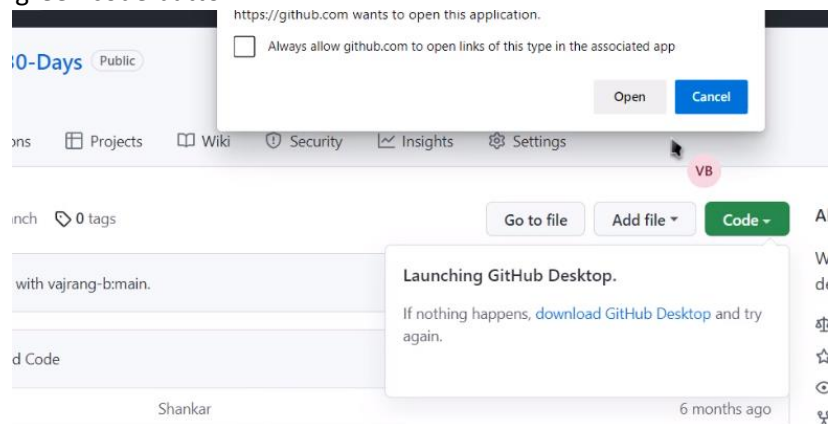
- i.
- d. Day2



e.

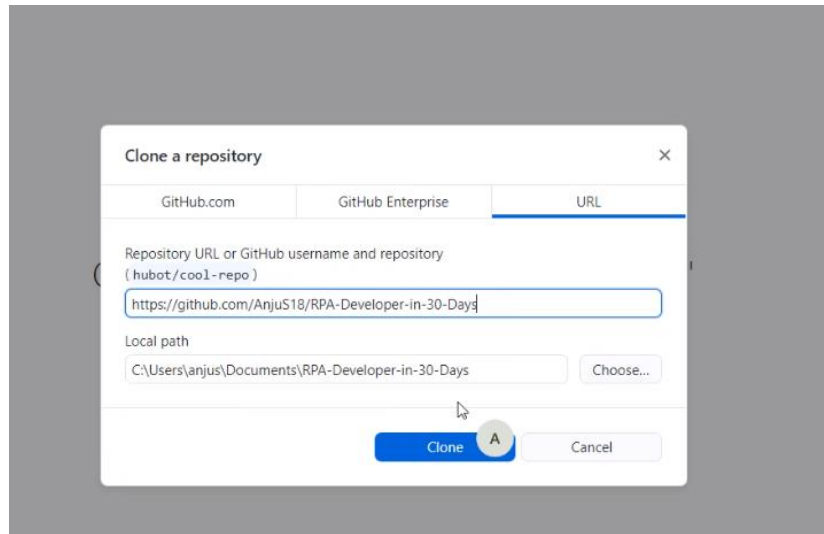
f. How to clone github

- i. Navigate to github repo rpa dev in 30 days
- ii. Click on fork on top
 1. It will create your separate code base where we can make changes
 2. Click on green code button



a.

3. Click clone



- a.
4. Add your personal code and make changes
 5. Make commits and create a pull request

Day 3: 12-1-2022 <https://youtu.be/oiLU4Wyrj1Q>

ReFramework

1. Folder Structure

1.1. Data

- 1.1.1. Input – All input files that are required for a program to run
- 1.1.2. Output – All reports generated, or all output data
- 1.1.3. Temp – Any data that need to be created after start of execution and must be deleted before end of the job
- 1.1.4. Config.xlsx

1.2. Documentation

- 1.2.1. Try not to publish along with code in orchestrator packages
- 1.2.2. All files required for the program to be executed or understood must be placed here

1.3. Exceptions_Screenshots

- 1.3.1. System exceptions will be taken as screenshot and will be stored in this location, code is already written in framework on where to store screenshots

1.4. Framework

- 1.4.1. CloseAllApplications - Do the necessary procedures for ending the process (e.g., logout) and close the used applications.
- 1.4.2. GetTransactiondata – Get one item to process
- 1.4.3. InitAllApplications – Initialize all apps we need to work for the process
- 1.4.4. InitAllSettings – Read all config sheets and store information in a **config dictionary****
- 1.4.5. KillAllProcess - Kill required applications before execution
- 1.4.6. Process – All the process steps must be placed here
- 1.4.7. RetryCurrentTransaction – If we need retry any transaction then we have code in this

- 1.4.8. SetTransactionStatus – Mark transaction as
 - 1.4.8.1. Success
 - 1.4.8.2. BusinessException
 - 1.4.8.3. SystemException
- 1.4.9. TakeScreenshot – Take one screenshot at current instance
 - 1.4.9.1. Out – outFilePath
 - 1.4.9.2. In – InFolder – Location at which screenshot must be stored

1.5. Tests

- 1.5.1. Files we use for testing our process
- 2. Convert ReFramework to use Datatable - [Using ReFramework with Datatable | Transaction item as data row | #vajrangtalks | #uipath - YouTube](#)

Day3 13-1-2022 <https://youtu.be/Bk6p-UhWAho>

1. ReFramework Main

a. States

i. Initialization

- 1. Reading config
- 2. Opening browsers and clicking on start
- 3. Variables – memory locations that can be used only within that work flow
 - a. Config – Dictionary datatype
 - i. Initially on execution config will be empty and this will be used to execute first run sequence
 - b. dt_TransactionData - Used in case transactions are stored in a DataTable, for example, after being retrieved from a spreadsheet.
- 4. Arguments – Send values from one workflow to other
 - a. In – gets data into a workflow
 - b. Out – sends data out of the workflow
 - c. In\out - gets data into workflow and sends data out of workflow
- 5. Sequence
 - a. FirstRun – This code executes only in the first iteration of the process execution of a transition
 - i. After execution of “Initallsettings” config will not be empty
 - ii. Kill all process – makes environment a clean slate for process execution



b.

ii. GetTransactionData

- 1. Get One row item to process

iii. Process

- 1. Add code to process workflow
 - a. Datarow

- i. Row("Key").toString
 - b. QueueItem
 - i. **In_TransactionItem.SpecificContent("Key").toString**
- 2. There can be 2 types of exceptions
 - a. Exception
 - i. System Exception
 - 1. Any exception that you have not configured as BRE is a system exception
 - ii. Business rule exception
 - 1. Any custom condition or rules created by a developer
- 3. Set Transaction Status
- iv. EndProcess
- 2. General points
 - a. State and final state must be placed in Statemachine scope
 - b. State
 - i. 
 - ii. Data can flow in and out of this state
 - c. Final State
 - i. 
 - ii. Data can come into this state but cannot go out of this state

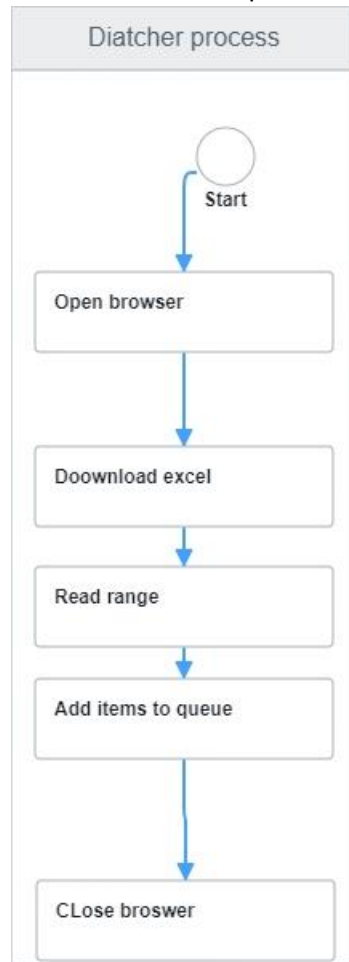
Day4 17-01-2022 Convert process to Dispatcher and performer <https://youtu.be/4PW0qkzMoj4>

Courses to complete: <https://academy.uipath.com/channeldetail/rpa-developer-foundation>

<https://academy.uipath.com/channeldetail/rpa-developer-advanced->

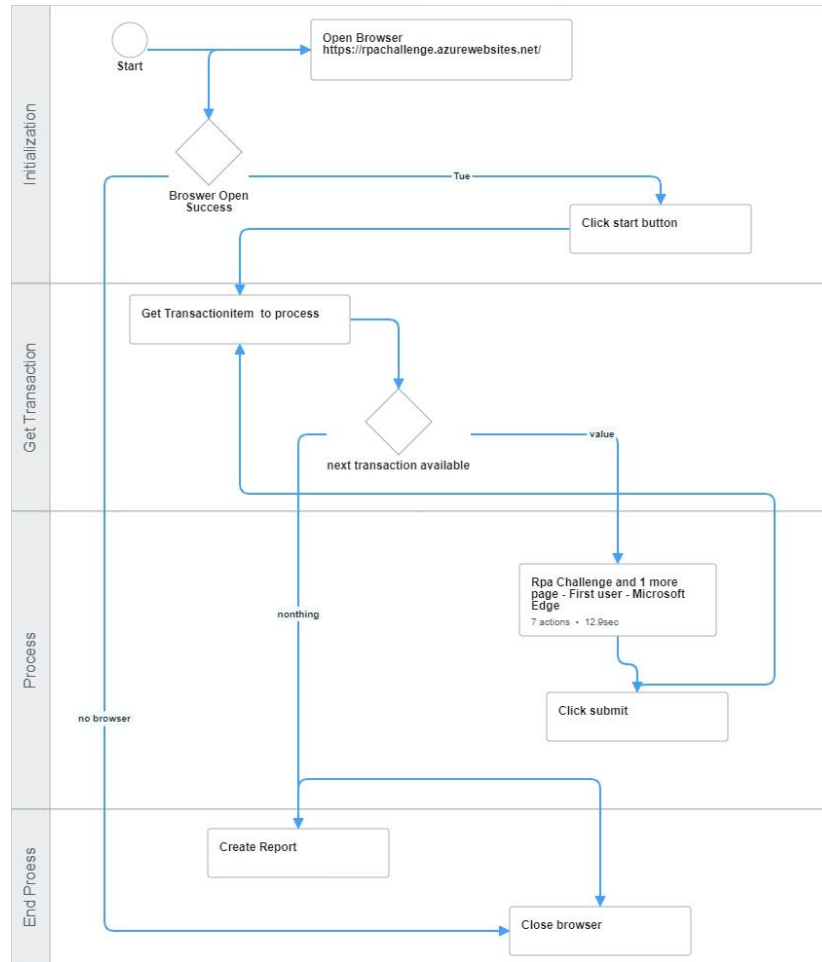
1. Recap – Open browser- > Download excel -> Read excel ->each row must be filled - >click submit
2. Having single process cannot be used my multiple machines with same data
 - a. Having separate performer and dispatcher
 - b. How to provide access to other robots
 - i. Login to orchestrator admin panel
 - ii. Navigate to admin
 - iii. Provide email id to invite users
 - iv. Invited user will get email
 - v. User need to accept invitation and register into tenant organization
 - vi. Open Uiopath assistant.

- vii. Login using interactive sign on
- c. Dispatcher can work on a separate machine



i.

- d. Performer can work on separate machine



- i.
- e. How to publish code
 - i. Directly from studio
 - ii. Manually upload Nupkg
- f. How to run published packages
 - i. Published packages are available at tenant level
 - ii. Go to published folder
 - iii. Click add process
 - iv. Select package name
 - v. Select entry point
 - vi. Click next
 - vii. Process will be available for execution