

REFramework as Library

For power users

- ❖ **Facilitate** the development of complex automations by providing the most common functionalities out-of-box:
 - Exception Handling
 - Retry & Recovery Mechanisms
 - Configuration Mechanism
 - Logging
- ❖ Compared to classic REFramework, the current implantation has the advantage of hiding the complexity of the architecture from the user, allowing him to focus specifically on the process to automate.
- ❖ Well suited for **iterative, transactional processes**, where the data can be split into several items (or parts)
- ❖ Built around *TransactionData* (the entire data to be processed, e.g. Orchestrator Queues, DataTables) and *TransactionItem* (chunk of data to be processed during one iteration, e.g. Queue Item, Data Row).
- ❖ Capability to generate starting workflow – **ready-to-run processes**
- ❖ Developer can define a process by updating a set of **predefined, wizard-created workflows**:
 - *InitAllApplications.xaml* – is invoked at the beginning of the execution and should be used to initializes all applications needed by the robot and to initialize the *TransactionData*.
 - *GetTransactionItem.xaml* – used to retrieve the next item to be processed.
 - *ProcessTransaction.xaml* – used to process each transaction item
 - *EndProcess.xaml* – invoked at the end of the execution, should contain final actions to be executed before the process finishes (send reports, save data, emails, etc.)
 - *CloseAllApplications.xaml* [optional] should contain actions to close all applications used by the robot
 - *HandleTransactionStatus.xaml* [optional]– the workflow is invoked after each *ProcessTransaction.xaml*. It should handle with the status of the processing, e.g. send an email in case of exception, log the status of each transaction, etc.
 - *Config.xlsx* – contains a dictionary of configurations that can be accessed in every workflow through the variable *Config*.
- ❖ Exception handling and retry mechanism:
 - Number of retries configured in config file.
- **Predefined logging**: when REFramework starts and ends, when an external workflow is invoked, when a new transaction is started.
- Powerful framework for developing automations: **wizard**, an user friendly interface and hiding the complexity behind a library, this framework targets users with medium experience in UiPath