Framework: provides base for ease of implementation to programming by providing basic libraries to reduce the code.

e.g: .NET

Template: set of rules and standards described with basic skeleton of the programming to start with implementation. Having common functionalities which may require for any project implement.

e.g: any Project template

RE Framework 🡪 is this a framework or template?

UiPath runs on .NET framework, RE Framework Template

Advantages:

1. Helps to organize the project in better way
2. Basic Exception handling by default available, we can focus on implementing functionalities.
3. Retrying of any failed transactions will be by default handled.
4. Parallel execution- multi bot architecture (executing same process by multiple robots with out any duplicate processing)

What is RE Framework:

RE Framework template is built on top of state machines. Here the project organized with states and transition from on state to other will happen based on transition conditions.

Two states in State machines: State, Final State

State – Entry, Exit

Final State – Entry

RE Framework: State (Init, Get Transaction, Process Transaction), and Final State (End Process)

Init – Reads all the settings, Configuration (Assets), Open All the Application which are used as part of our process.

Get Transaction: retrieve the available data for processing (Queues, List, Array, Data Table, etc.) – any iterative object

Process Transaction: all our process to be automated.

End Process: Close All Application

Init 🡪 Get Transaction Data – Successful

Init 🡪 End Process – Error

Get Transaction Data 🡪 Process Transaction – New Transaction is Available for processing.

Get Transaction Data 🡪 End Process – Stop signal received from Orchestrator, Error while fetching transaction, no new transaction available.

Process Transaction 🡪 Get Transaction Data – Successful, Business Exception

Process Transaction 🡪 Init – System Exception

At least one state, one final state