

★★★★ Day 124 ★★★★★  
of Our Daily UiPath Q&A  
Challenge!

Welcome to Day 124 of our  
exciting UiPath Q&A Challenge!  
Each day, we'll be answering one  
key question to help you master  
UiPath and revolutionize your  
automation journey. 🚀

🚫 Question for Today

Explain all transitions in  
RE-Framework?

## What is REFramework?

The Robotic Enterprise Framework is a robust, scalable template designed for transaction-based automation with built-in error handling, logging, and retry mechanisms.

### Main States in REFramework

1. Init
2. Get Transaction Data
3. Process Transaction
4. End Process

Each state can transition to others based on conditions (e.g., system error, success, no data, business exception).

### Transition Scenarios

#### ◆ 1. Init → Get Transaction Data

- ✓ Successful Initialization
  - System/application initialized successfully
  - Config loaded
  - Login to application successful

Example: SAP login and config loading is successful

**Transition Condition: SystemException is Nothing**

#### ✗ 2. Init → End Process

- ✗ System Exception in Init
  - Config file missing
  - Application login failed
  - Asset not found in Orchestrator

Example: Bot fails to open CRM due to server down

**Transition Condition: SystemException is Not Nothing**

#### ◆ 3. Get Transaction Data → Process Transaction

- ✓ New Transaction Item Found
  - Successfully fetched from queue or data source

Example: Bot gets next invoice from queue

**Transition Condition: TransactionItem isNot Nothing**

#### ← END 4. Get Transaction Data → End Process

##### ✓ No More Transactions

- Queue is empty or data source exhausted
- Example: Excel has no more rows, or no new queue items

**Transition Condition: TransactionItem is Nothing**

#### ◆ 5. Process Transaction → Get Transaction Data

##### ✓ Transaction Processed Successfully

- No exception thrown
- Example: Invoice processed and email sent

**Transition Condition: SystemException is Nothing AND BusinessRuleException is Nothing**

#### 🔄 6. Process Transaction → Get Transaction Data (with BRE)

##### ! Business Rule Exception

- Data problem with transaction, not a system failure
- Item is marked as failed, no retry
- Example: Invalid invoice amount or missing mandatory field

**Transition Condition: BusinessRuleException is Not Nothing**

#### ✗ 7. Process Transaction → Init

##### ✗ System Exception during Processing

- Application crash, timeout, element not found
- SystemError is assigned and framework retries after going back to Init

**Transition Condition: SystemException is Not Nothing**

#### ← END 8. End Process

Executes when:

- All transactions are processed
- Or unrecoverable system error occurred during Init

Responsible for:

- Closing applications
- Logging final messages
- Clean-up

