

★★★★ Day 107 ★★★★★
of Our Daily UiPath Q&A
Challenge!

Welcome to Day 107 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

How are exceptions handled in
RE-Framework?

In UiPath REFramework (Robotic Enterprise Framework), exception handling is a core component designed to ensure robust and resilient automation. Here's how exceptions are handled within the frameworkL

1. Try-Catch Blocks

Each major part of the process (like Init, Get Transaction Data, Process, and End Process) is wrapped in Try-Catch blocks to catch and handle exceptions gracefully.

2. State Machine-Based Handling

RE-Framework uses a state machine with the following key states:

1. Init – Initializes applications and systems.
2. Get Transaction Data – Retrieves the next item to process.
3. Process Transaction – Processes the current item.
4. End Process – Closes applications and performs cleanup.

Each state transitions based on the outcome:

- Success
- System Exception
- Business Exception

3. System vs. Business Exceptions

- System Exceptions: Unexpected errors like application crashes, timeouts, etc. These typically cause the process to retry the transaction or reinitialize the system.
- Business Exceptions: Expected issues like invalid data formats or missing fields. These are logged and skipped without retrying.

4. Retry Mechanism

- The framework uses the Orchestrator Queue retry mechanism or a custom retry logic for System Exceptions.
- Business Exceptions are not retried by default.

5. Logging and Screenshots

- All exceptions are logged using UiPath's Logging mechanism.
- Optionally, screenshots can be taken on error for debugging.

6. SetTransactionStatus.xaml

This workflow is responsible for:

- Logging the outcome of each transaction.
- Setting the transaction status (Success, Business Exception, or System Exception).
- Handling retries and queue item status updates.