

★★★★ Day 122 ★★★★★  
of Our Daily UiPath Q&A  
Challenge!

Welcome to Day 122 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 does RE-Framework handle  
system exceptions?

## ⚠️ What is a System Exception?

A system exception is an unexpected error that occurs due to issues like:

- Application crashes
- Selector not found
- Timeout errors
- Network failures
- File access issues

These are different from business exceptions, which are expected and related to business rules (e.g., invalid data).

## 🔄 How REFramework Handles System Exceptions

### 1. Try-Catch in Process.xaml

- The main business logic is wrapped in a Try-Catch block.
- If a system exception occurs, it is caught and passed to the `SetTransactionStatus.xaml`.

### 2. `SetTransactionStatus.xaml`

This is where the framework decides what to do next:

- Logs the exception using Log Message and optionally a custom logger.
- Screenshots can be taken for debugging (if implemented).
- Retries the transaction if the `RetryNumber` is less than the max retry count.
- Marks the transaction as Failed in Orchestrator if retries are exhausted.

### 3. Retry Mechanism

- Controlled by the `MaxRetryNumber` in `Config.xlsx`.
- If the transaction is from a **queue**, Orchestrator handles retries.
- If it's from a **data table**, REFramework handles retries manually.

#### 4. Global Exception Handler (optional)

- You can implement a Global Exception Handler.xaml to catch unhandled exceptions across the entire project.
- Useful for logging, cleanup, or sending alerts before the process crashes.

#### 5. TransactionItem Status

- For queue-based processes : SetTransactionStatus.xaml sets the status to Failed with the exception details.
- For non-queue processes : The framework logs the error and moves to the next item.

#### Best Practices

- Use specific exception types in Try-Catch blocks when possible.
- Log detailed error messages including activity name, exception type, and message.
- Use screenshots and error codes for better diagnostics.
- Implement custom alerts (e.g., email, Teams, Slack) for critical failures.