☑ BOT METRICS - STANDARD APPROACH USING SHARED PYTHON FILE (Rocketbot-Compatible)

Objective:

To track every bot's metrics like bot name, start/end time, status, transactions, etc., without duplicating logic across bots — using a single, centralized bot_metric.py file.

* Tools Used:

- Rocketbot no changes to Rocketbot architecture required
- **Shared Python Script** (e.g., C:/RPA/CommonModules/bot_metric.py)
- Rocketbot command: Execute Python File

☆ Files Involved:

File	Location	Purpose
llhot metric by	Shared (e.g. C:/RPA/CommonModules/)	Reusable DB logger, all bots call this
bot_variables.robot	llinside each bot	Define bot-specific values to send to bot_metric.py

BOT EXECUTION FLOW:

1. Start of Bot

- Set variable: bot_name, process_name, country, start_time
- Use "Execute File Python" to call: bot_metric.py
- → with method: log_start()

★ Example Code in bot_metric.py:

import sys

import datetime

Receive values from Rocketbot

bot_name = sys.argv[1]

country = sys.argv[2]

```
process_name = sys.argv[3]

start_time = sys.argv[4]

end_time = sys.argv[5]

total_tx = int(sys.argv[6])

success_tx = int(sys.argv[7])

failed_tx = int(sys.argv[8])

log_path = sys.argv[9]

# Now log this data into DB or status file

# Example: Save to log file

with open("C:/RPA/Metrics/metrics_log.txt", "a") as log:

log.write(f"{bot_name}, {country}, {process_name}, {start_time}, {end_time}, {total_tx}, {success_tx}, {failed_tx}, {log_path}\n")
```

2. During Bot Execution

- Keep tracking transactions and failures inside Rocketbot

3. At End of Bot

- Set variables: end_time, success_count, fail_count, etc.
- Use "Execute File Python" again to call: bot_metric.py
- → with method: log_end()

Example of variables to pass:

```
bot_name = "NCU-Bot"

country = "Chile"

process_name = "Contract Approval"

job_run_date = "2025-05-22"

start_time = "2025-05-22 09:00:00"

end_time = "2025-05-22 09:10:00"

total_transactions = 50

success_count = 48

failed_count = 2

status_file_path = "C:/RPA/Logs/NCU/status-22052025.txt"
```

4. X On Error (Optional)

- If error, call: bot_metric.py

→ with method: log_error(reason)

What Goes Inside bot_metric.py?

def log_start (bot_name, process_name, start_time, ...):

Insert into DB: bot start

def log_end (bot_name, end_time, total_txn, success_txn, failure_txn, ...):

Update DB row with execution results

def log_error (bot_name, reason, timestamp):

Insert error logs

If You Add a New Field (like application_name)?

- ✓ Just update bot_metric.py in shared location
- Add that field to Execute File Python in bots
- X No need to rewrite code in each bot

★ Benefits Recap:

Feature	Benefit
Reusable	One shared Python file across all bots
Rocketbot-friendly	Uses built-in Rocketbot commands
Lasy Updates	Add a field once, it applies everywhere
Less Errors	Central logic = easier debugging

Pro Tip:

You can even version bot_metric.py (e.g., v1.0, v1.1) so developers know when a change was made.