



Bug Report: Incorrect Trip Classification and Fare Calculation in Littlepay System

Bug Report ID: LP-22-Mar-2025

Title: Incorrect trip classification and fare calculation in process-tap-file API response

Reported By: Vijay

Reported On: 23-Mar-2025

Environment:

- **Platform:** macOS
- **Browser:** No
- **Node.js Version:** Node v18
- **Playwright Version:** 1.45.1
- **API Environment:** Sandbox

Description:

The **Littlepay Fare Calculation** tests indicate a failure in trip classification and charge calculations after processing the process-tap-file API response. The test failures suggest that the actual trip counts for **COMPLETED**, **CANCELLED**, and **INCOMPLETE** trips do not match the expected values. Additionally, the fare charged per PAN does not align with expected results.

Steps to Reproduce:

1. Upload a **valid CSV file** containing trip data to the process-tap-file API.
2. Parse the API response and classify trips based on their status (COMPLETED, INCOMPLETE, CANCELLED).













3. Validate the trip count and expected charge amounts.




Expected Result:

- The trip count for **COMPLETED**, **INCOMPLETE**, and **CANCELLED** trips should match expected values.
- The charge per PAN should be calculated correctly based on fare rules.
- The system should provide accurate classification of trips based on Started and Finished fields.

Actual Result:

The following tests failed due to incorrect calculations or classifications:




Test Case	Status	Failure Reason	Severity	Priority
Validate number of COMPLETED trips	 Fail	Expected vs Actual count mismatch	 High	 Critical
Validate number of CANCELLED trips	 Fail	Expected vs Actual count mismatch	 Medium	 High
Validate number of INCOMPLETE trips	 Fail	Expected vs Actual count mismatch	 Medium	 High
Validate charge per PAN	 Fail	Incorrect charge calculation	 High	 Critical

Invalid input data (missing fields)	 Fail	{ "timestamp": "2025-03-23T02:08:18.109+0000", "status": 500, "error": "Internal Server Error", "message": "Index 5 out of bounds for length 5", "path": "/process-tap-file" }	 High	 Critical
-------------------------------------	--	--	--	--

Severity:  High (Affects core fare calculation logic)

Priority:  Critical (Impacts end-user fare accuracy)

However, the following tests **passed** successfully:

Test Case	Status
process-tap-file API call returns 200 status	 Pass
Validate the contents of output - Trip response	 Pass
Check for total trip count	 Pass

Logs & Debugging Info:

- Pls check the Playwright HTML report for logs & debug traces.




Possible Root Cause Analysis:

- The **classification logic** in the API response may be incorrectly setting the trip status [COMPLETED, INCOMPLETE, CANCELLED].
- There may be **incorrect fare calculations** due to missing fare rules or improper mapping in Charges[PAN].
- **Edge case scenarios** (e.g., missing Finished field) may not be handled properly.

Recommended Fix:

- Review and correct the **trip classification logic** in the API response.
- Ensure Charges[PAN] mapping correctly reflects **fare rules**.
- Debug and verify the calculations in test assertions.
- Add **additional logging and test cases** to catch discrepancies earlier.

Attachments:

-  CSV file used for testing
-  API response JSON (before and after parsing)
-  Console logs from test execution