



## Acceptance Criteria - Littlepay Fare Calculation Based on Taps

### 1. API Response Validation

- The process-tap-file API should return **HTTP 200 (OK)** status when a valid CSV file is uploaded.
- The API response should be **parsable** and converted to a valid JSON structure.
- The response should not be empty and must contain valid trip records.

### 2. CSV Data Structure Validation

- The parsed CSV response must contain the following mandatory fields for each trip:
  - Started
  - Finished (*optional for INCOMPLETE trips*)
  - DurationSecs
  - FromStopId
  - ToStopId (*optional for INCOMPLETE trips*)
  - ChargeAmount
  - CompanyId
  - BusID
  - PAN
  - Status (*COMPLETED, INCOMPLETE, CANCELLED*)
- Each field must have a **non-empty** value (except Finished for INCOMPLETE trips).

### 3. Trip Classification Validation

- The system should correctly classify trips into one of the three statuses:
  - **COMPLETED**: Both Started and Finished exist.
  - **INCOMPLETE**: Only Started exists, Finished is empty.
  - **CANCELLED**: Explicitly marked as CANCELLED in the response.
- The total count of each trip type should match the expected values.

#### 4. Business Logic Validation - Trip Counts

- The total number of trips should be calculated as:  
Total Trips=COMPLETED+INCOMPLETE-CANCELLED
- The expected trip counts should match the predefined values  
(TripCount.COMPLETED, TripCount.INCOMPLETE, TripCount.CANCELLED).

#### 5. Charge Amount Validation

- Each PAN (Passenger Account Number) should have an associated expected charge.
- The charge for each trip should match the expected charge defined in the system  
(Charges[PAN]).
- The expected charge calculation should follow **Littlepay's fare rules** based on stops, trip type, and duration.