A. Description of Activities Performed

Environments and devices used for testing:

- **Environment:** Google Chrome Browser (Version 143) – in accordance with the supported browsers specification.

- **Device:** Desktop computer, screen resolution above 1024px.

Tester Login and Password: End User.
Build number: 2.0.1
Execution date: 25.01.2026

Application areas and types of tests performed:

Application Area	Types of Tests Performed	Time Spent
Monthly Change Distribution	Functional tests, UI/UX tests, Acceptance tests	15 min
Error Handling Logic	Negative testing, Functional tests	10 min
Entire Application	Functional tests	10 min

B. Summary of All Defects

1. **Fixed and Retested:**

   - **DEF-001:** Discrepancy in the session total (Fix verified).

2. **To Do / Outstanding:**

   - **DEF-002:** UI displays stale/incorrect data despite "Invalid data request" error.
     Link to issue: `https://github.com/IIS-ZPI/ZPI2025_zaoczni_Orange/issues/72`

3. **Risky to Fix:**

   - None.

C. Detailed Description of Defects

Test 2a (DEF-002)
Detected by: Jakub Klimczyk
Report in which detected: Current (No. 02/2026)
Priority: Medium (Risk of data misinformation)
Reproducibility: 100%
Browser: Google Chrome v143
Location: Main Page > Monthly change distribution

Steps to Reproduce:

1. Open the application and navigate to the "Monthly change distribution" section.

2. Select EUR and HUF as currencies.

3. Input a date that triggers an error (e.g., a very recent date like 12.01.2026 where a full month of data is not yet available).

4. Observe the "Invalid data request" alert.

5. Inspect the "Frequency Histogram of Changes" below the alert.

Test Results:
Expected: Upon an "Invalid data request," the chart and table components should be hidden, disabled, or replaced by a placeholder (Empty State) to prevent displaying false data.
Actual: The UI displays a warning, but the histogram remains visible with stale data (e.g., 30 sessions in one range and 1 in another), which does not correspond to the failed request.

D. Summary of Exit Criteria for All Tests

1. **Were the planned tests completed?**: Yes. However, the "Monthly change distribution" module failed functional acceptance due to critical UI inconsistency (DEF-002).

2. **Were any difficulties encountered?**: Identification of a lack of synchronization between the global error state and the visibility of child components (Charts/Tables).

3. **Conclusions for the future**: Implement a conditional rendering logic ($isError$ state) that globally handles the visibility of data-dependent components. If the API returns an error or the request is invalid, the data-presenting UI should be unmounted.

E. Additional Remarks Regarding the Development Process

While the backend correctly identifies invalid requests (as evidenced by the alert), the frontend lacks a "fail-safe" mechanism for data presentation.