**Integration Tests Report**

**Project Information:**

* **Project Name:** NBP Crasher
* **Project Manager:** Przemysław Kowalski
* **Report Date:** 18.01.2025
* **Test Environment:** Fedora Linux (41)

**Scope of Testing:**

* **Objective:** Verify the handling of errors and data validation between the frontend and backend when accessing the endpoint /get\_stats using the GET method.
* **Key Focus Areas:** 
  + API error handling and response validation
  + Frontend behavior and messaging when backend errors occur
  + Correctness of status codes and error messages

**Test Cases Overview:**

| ****Description**** | ****Expected Result**** | ****Actual Result**** | ****Status**** |
| --- | --- | --- | --- |
| Valid requests for periods predefined periods | Status code 200, correct data displayed. | Status code 200, data displayed. | Passed |
| Valid request for custom date | Status code 200, correct data displayed. | Status code 200, data displayed. | Passed |
| Request with equal currencies (currencies\_are\_equal) | Status code 400, error message shown. | Status code 400, error message shown. | Passed |
| Request with invalid date format (invalid\_date\_format) | Status code 400, error message shown. | Status code 400, error message shown. | Passed |
| Request with unsupported date (date\_not\_supported) | Status code 400, error message shown. | Status code 400, error message shown. | Passed |
| Request with invalid data (invalid\_data) | Status code 400, error message shown. | Status code 400, error message shown. | Passed |
| Simulated server error (No NBP connection) (internal\_server\_error). | Status code 500, error message shown. | Status code 500, error message shown. | Passed |

**Key Observations:**

* **Error Handling:** All backend errors were properly propagated to the frontend with appropriate status codes and messages.
* **Validation Errors:** Status codes were correctly returned for malformed requests, with proper frontend display.
* **Frontend Behavior:** Each error scenario was clear and aligned with expected behavior.

**Conclusion:**

* Integration testing for the /api/get\_stats endpoint was successfully completed. All error scenarios and validation cases were properly handled, and the frontend responded as expected, ensuring a robust and user-friendly experience.