

Integration Test Report

Project Information:

- Project Name: Orzeł - Currency Analysis Reports
- Report Date: 08.02.2025
- Tester Name: Piotr Owczarek

Scope of Testing:

Objective: Verify the handling of errors and data validation between the frontend and backend, when accessing the /currency/exchange-rate using POST method.

Key Focus Areas:

- Server error handling and response validation
- Frontend messaging and behavior when server errors occur
- Correctness of error messages

Test Cases Overview:

Description	Expected Result	Actual Result	Status
Valid request for valid date range	Server returns correct data. Data is displayed	Server returned correct data. Data is displayed	Pass
Request with equal start and end dates	Server returns message: "No overlapping dates allowed."	Server returned message: "No overlapping dates allowed."	Pass
Request with invalid date format	Server returns message: "Input should be a valid date or datetime, invalid date separator, expected '-'"	Server returned message: "Input should be a valid date or datetime, invalid date separator, expected '-'"	Pass
Request with unsupported date range	Server returns message: "No data available for given period because it includes dates before 02-01-2002.". Error message is displayed	Server returned message: "No data available for given period because it includes dates before 02-01-2002.". Error message is displayed	Pass
No server connection	Frontend detects if there is no server connection when requesting report. Message about missing server connection is displayed	Frontend detected missing server connection when requesting report. Message about missing server connection is displayed.	Pass
No NBP API connection error	Server returns error and frontend displays message: "Server is not available"	Server returns error and frontend displays message: "Server is not available"	Pass

Key Observations:

Error Handling: All necessary backend errors were properly propagated to the frontend with expected error messages.

Validation Errors: Status codes were correctly returned for malformed requests, with proper frontend display.

All validation errors

Frontend Behavior: Each error scenario was clear and aligned with expected behavior.

Conclusion:

Integration testing for the `/api/currency/exchange-rate` endpoint was successfully completed. All error scenarios and validation cases were properly handled, and the frontend responded as expected.