

Project Status Report no 2

Project Information:

- **Project Name:** NBP Crasher
- **Project Manager:** Przemysław Kowalski
- **Report Date:** 07.01.2025
- **Project Duration:** 08.12.2024 – 31.01.2025

Management Summary:

- The backend phase of the project has been completed successfully.
- Unit tests were utilized to ensure code quality and reliability.
- Technologies used include Python and communication with NBP API.
- Key milestones achieved in this phase include:
 - Input data validation,
 - Integration with NBP API,
 - Validation of sample response from NBP API,
 - Validation of statistical calculator (measures specified in requirements specification). During unit tests phase, 2 edge cases were caught and handled regarding creation of dynamic ranges used for rates change distribution calculation. Those cases are:
 1. Maximum and minimum values in the passed set are the same
Solution: step for ranges takes maximum value of the set
 2. Values present same step along the set
Solution: step for ranges is hard-coded and equals 0.5
- Automated tests via GitHub service.
- Automated builds and releases.

Key Achievements:

- Backend development completed.
- Successful implementation of unit tests to validate various components.

Current Status:

- **Milestones Progress:** Completed backend phase.
- **Tasks Completed:** Backend development, unit tests implementation.
- **Current Tasks Overview:** Preparing for frontend and API integration phase.
- **Project Completion Percentage:** 50% (includes initial frontend implementation).

Risks:

- **Risk Identification:**
 - Sudden NBP API failure.
 - Integration issues between frontend and backend.
- **Impact and Likelihood Assessment:** High impact, medium likelihood for both risks.
- **Mitigation Strategies:** Continuous monitoring of NBP API, thorough testing of integration phase.

Upcoming Milestones and Tasks:

- Integration of frontend with API.
- Frontend (UI) development.
- Frontend unit tests.
- Manual tests.

Recommendations:

- Begin frontend development to proceed with API integration.
- Continuously monitor NBP API to mitigate potential failures.

Attachments:

- [Detailed project status information](#)