

EXMDirect — System Analysis Portfolio

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About the Project

EXMDirect is a digital platform for testing school students with automatic test generation, cheating protection mechanisms, QR-based student identification, and integration with Telegram bot.

This portfolio presents the case from the system analyst perspective: focusing on requirements analysis, documentation, business processes, and API specification.

What's Included

Folder/File	Description
/docs/EXMDirect_Portfolio.pdf	Main portfolio document with project overview and analysis
/docs/diagrams/	Diagrams: Use Case, BPMN, and ER model
/docs/swagger/openapi.yaml	API specification in OpenAPI (Swagger) format
/gpt_assistant.md	Summary of collaboration with AI during analysis
/notion_export.md	Markdown version for use in Notion or other portfolio platforms

Analyst Responsibilities in the Project

Stakeholder needs gathering and translation into business requirements

Designing system logic, modules, and user flows

Producing Use Case, BPMN and ER diagrams

Describing REST API structure and validating endpoints

Documenting all project aspects for development and stakeholders

Tech Stack (For Reference)

Java 17+, Spring Boot, PostgreSQL

REST API + JWT Auth

Telegram Bot API

Anti-cheat event logging

Related Repositories

[EXMDirect Backend \(Java code\)](#)

Contact

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This case was created as part of my professional transition from full-stack developer to system analyst. All documentation, diagrams, and analysis were made independently using real and simulated data.