

MindUrCode

User #1 is working on their Passion Project, and read on the news about an increase in data leaks. They want to make sure that their code is secure and is as solid as possible. They are using MindUrCode to make sure that their code is clean and free from vulnerabilities. This tool leverages AI, with minimal token use to discover and fix your problems, and prevent future ones.

Tech Stack: Java, AI: Qwen2.5-7b on Ollama

Database: PostgreSQL

Frontend: React

Parsing: JavaParser 3.28.0

Git Ops: JGit

Testing: JUnit 5

Backend: Spring Boot 3.x, Spring Web, Spring Data JPA

Test Coverage Analyzer:

Identifies methods lacking unit tests, generates reports, and suggests specific test cases.

Conceptual Clarity Scanner:

Detect naming inconsistencies, identify complex methods, flag potential confusions, and utilize AI to confirm code intentions.

Documentation Assistant:

Generate Javadoc comments, user will be able to review and approve suggestions, while maintaining proper formatting and style.

Refactoring Advisor:

Identify code smells, suggests standard refactorings, propose actionable steps, and allow users to preview and apply.

Simplification Engine:

Detect unnecessary complexity, recommend use of language, suggest removal of unused imports, variables, and methods, and propose equivalent code with explanations.