Brief operating instruction of the application

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Content

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Intro

This document is intended to give an insight into how the application was designed and developed from the user perspective. When developing the user interface, attention was paid to simplicity and ease of use. How the websites are structured is explained in more detail in the next paragraphs.

Main Page

On the first picture you can see the main page of the analysis framework. Here you can have the desired project analyzed with one click. It is important to mention, however, that the project has a predefined folder structure, **[project name]/src/main/java**. The analysis can take several minutes, depending on the project.
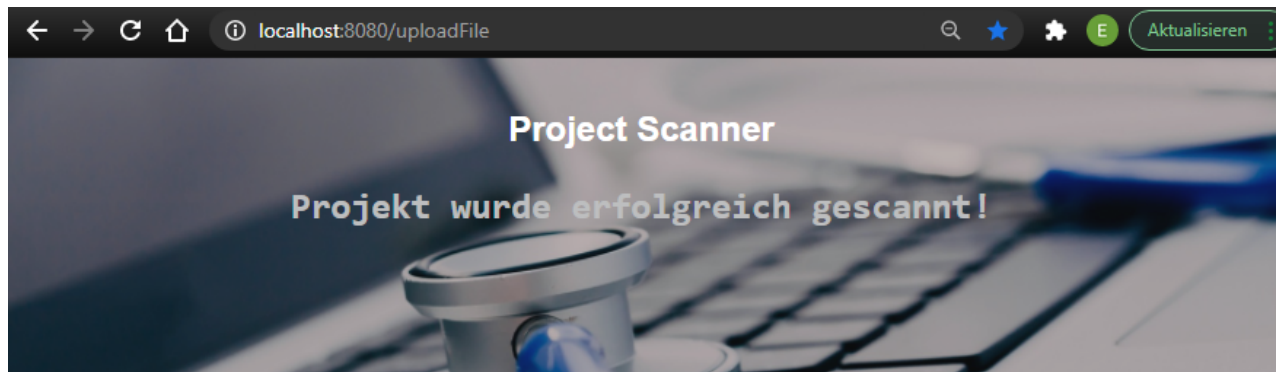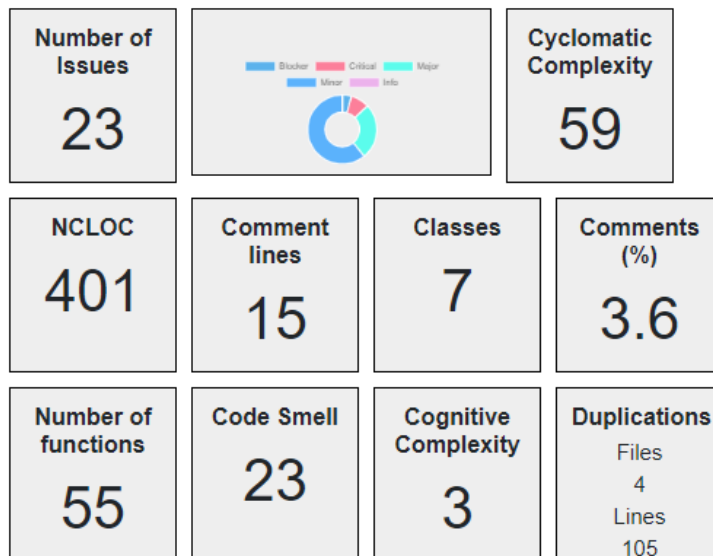
Url: http://localhost:8080/
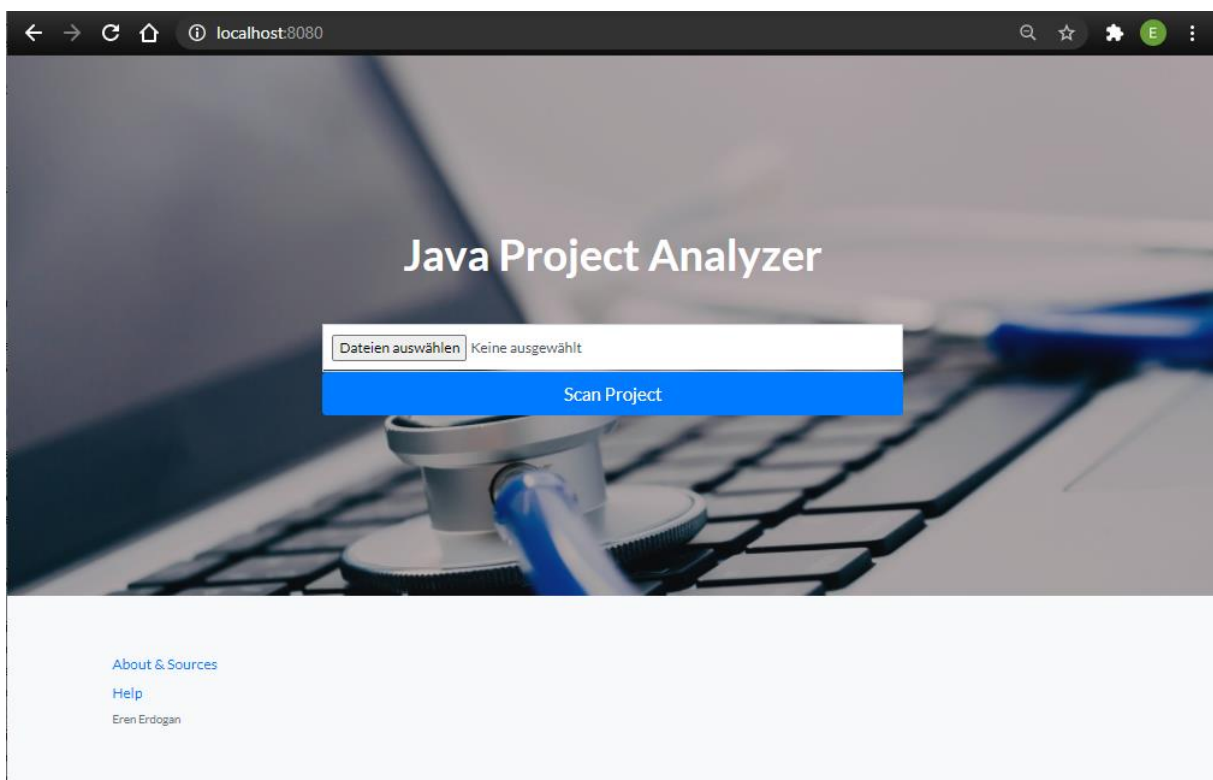
Analyze result page

Here you can view the analysis results. In the upper section, the important metrics are shown at a glance. The file results are shown below in the list view. The list is structured according to file or class name. How the severity level of the error is indicated can be seen in the Help (http://localhost:8080/help) page.

Url: http://localhost:8080/uploadFile

Project Scanner

Projekt wurde erfolgreich gescannt!

Analyze results

Number of Issues		Cyclomatic Complexity
23	Blocker / Critical / Major / Minor / Info	**59**

NCLOC	Comment lines	Classes	Comments (%)
401	**15**	**7**	**3.6**

Number of functions	Code Smell	Cognitive Complexity	Duplications
55	**23**	**3**	Files 4 / Lines 105

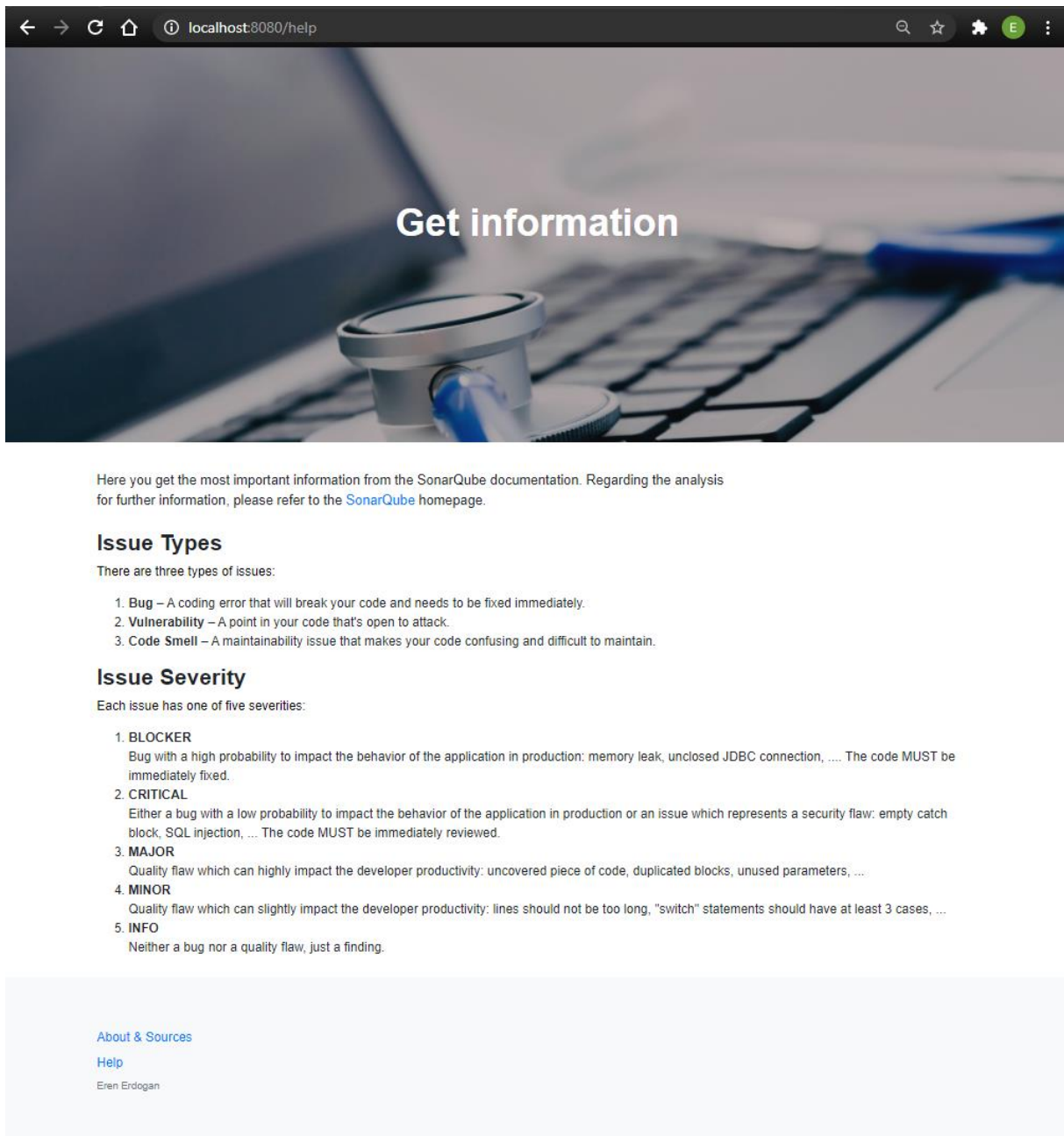| Severity	Component	Line	Message
MAJOR	TestPoj2:2/Orti.java	0	2 duplicated blocks of code must be removed.
MINOR	TestPoj2:2/Orti.java	1	Rename this package name to match the regular expression "^[a-z_]+(\.[a-z_][a-z0-9_]*)*$".
CRITICAL	TestPoj2:2/Orti.java	1	This file "Orti.java" should be located in "pacApp\pacModel" directory, not in "C:\Users\eeren\git\AnalyseToolProject\tmp\TestPoj2\2".
MINOR	TestPoj2:src/main/java/pacApp/pacModel/Haus.java	1	Rename this package name to match the regular expression "^[a-z_]+(\.[a-z_][a-z0-9_]*)*$".
MINOR	TestPoj2:src/main/java/pacApp/pacModel/Haus.java	7	Remove this unused import 'javax.persistence.Column'.
MINOR	TestPoj2:src/main/java/pacApp/pacModel/Haus.java	8	Remove this unused import 'javax.persistence.Entity'.
MINOR	TestPoj2:src/main/java/pacApp/pacModel/Haus.java	10	Remove this unused import 'javax.persistence.GeneratedValue'.
MINOR	TestPoj2:src/main/java/pacApp/pacModel/Haus.java	11	Remove this unused import 'javax.persistence.GenerationType'.
MINOR	TestPoj2:src/main/java/pacApp/pacModel/Haus.java	16	Remove this unused import 'javax.persistence.Table'.
MINOR	TestPoj2:src/main/java/pacApp/pacModel/Haus.java	34	Replace the type specification in this constructor call with the diamond operator ("<>"). (sonar.java.source not set. Assuming 7 or greater.)
MAJOR	TestPoj2:src/main/java/pacApp/pacModel/Ort.java	0	1 duplicated blocks of code must be removed.
MINOR	TestPoj2:src/main/java/pacApp/pacModel/Ort.java	1	Rename this package name to match the regular expression "^[a-z_]+(\.[a-z_][a-z0-9_]*)*$".
MAJOR	TestPoj2:src/main/java/pacApp/pacModel/Orti.java	0	2 duplicated blocks of code must be removed.
MINOR	TestPoj2:src/main/java/pacApp/pacModel/Orti.java	1	Rename this package name to match the regular expression "^[a-z_]+(\.[a-z_][a-z0-9_]*)*$".
MINOR	TestPoj2:src/main/java/pacApp/pacModel/Person.java	1	Rename this package name to match the regular expression "^[a-z_]+(\.[a-z_][a-z0-9_]*)*$".
MAJOR	TestPoj2:src/main/java/pacApp/pacModel/Person.java	20	This block of commented-out lines of code should be removed.
MAJOR	TestPoj2:src/main/java/pacApp/pacModel/Person.java	40	This block of commented-out lines of code should be removed.
MINOR	TestPoj2:src/main/java/pacApp/pacModel/User.java	1	Rename this package name to match the regular expression "^[a-z_]+(\.[a-z_][a-z0-9_]*)*$".
BLOCKER	TestPoj2:src/main/java/pacApp/pacModel/User.java	83	Remove this "clone" implementation; use a copy constructor or copy factory instead.
MAJOR	TestPoj2:src/main/java/pacApp/pacTest/Orti.java	0	2 duplicated blocks of code must be removed.
MINOR	TestPoj2:src/main/java/pacApp/pacTest/Orti.java	1	Rename this package name to match the regular expression "^[a-z_]+(\.[a-z_][a-z0-9_]*)*$".
CRITICAL	TestPoj2:src/main/java/pacApp/pacTest/Orti.java	1	This file "Orti.java" should be located in "pacApp\pacModel" directory, not in "C:\Users\eeren\git\AnalyseToolProject\tmp\TestPoj2\src\main\java\pacApp\pacTest".
MINOR	TestPoj2:src/main/java/pacApp/test1.java	0	Move this file to a named package.

Sie können die detaillierte SonarQube Analyse Ergebnisse hier betrachten: hier

Hier können Sie die Analyse Werte generieren: generate CSV

Information Page

The error types and the severity of the errors are described here. The texts are excerpts from the **SonarQube** website.

Url: http://localhost:8080/help

Here you get the most important information from the SonarQube documentation. Regarding the analysis for further information, please refer to the SonarQube homepage.

Issue Types

There are three types of issues:

1. **Bug** – A coding error that will break your code and needs to be fixed immediately.
2. **Vulnerability** – A point in your code that's open to attack.
3. **Code Smell** – A maintainability issue that makes your code confusing and difficult to maintain.

Issue Severity

Each issue has one of five severities:

1. **BLOCKER**
   Bug with a high probability to impact the behavior of the application in production: memory leak, unclosed JDBC connection, ... The code MUST be immediately fixed.
2. **CRITICAL**
   Either a bug with a low probability to impact the behavior of the application in production or an issue which represents a security flaw: empty catch block, SQL injection, ... The code MUST be immediately reviewed.
3. **MAJOR**
   Quality flaw which can highly impact the developer productivity: uncovered piece of code, duplicated blocks, unused parameters, ...
4. **MINOR**
   Quality flaw which can slightly impact the developer productivity: lines should not be too long, "switch" statements should have at least 3 cases, ...
5. **INFO**
   Neither a bug nor a quality flaw, just a finding.

About & Sources
Help
Eren Erdogan

About & Sources Page

The components used and their sources such as website layouts, frameworks and photos are displayed here.

Url: http://localhost:8080/about