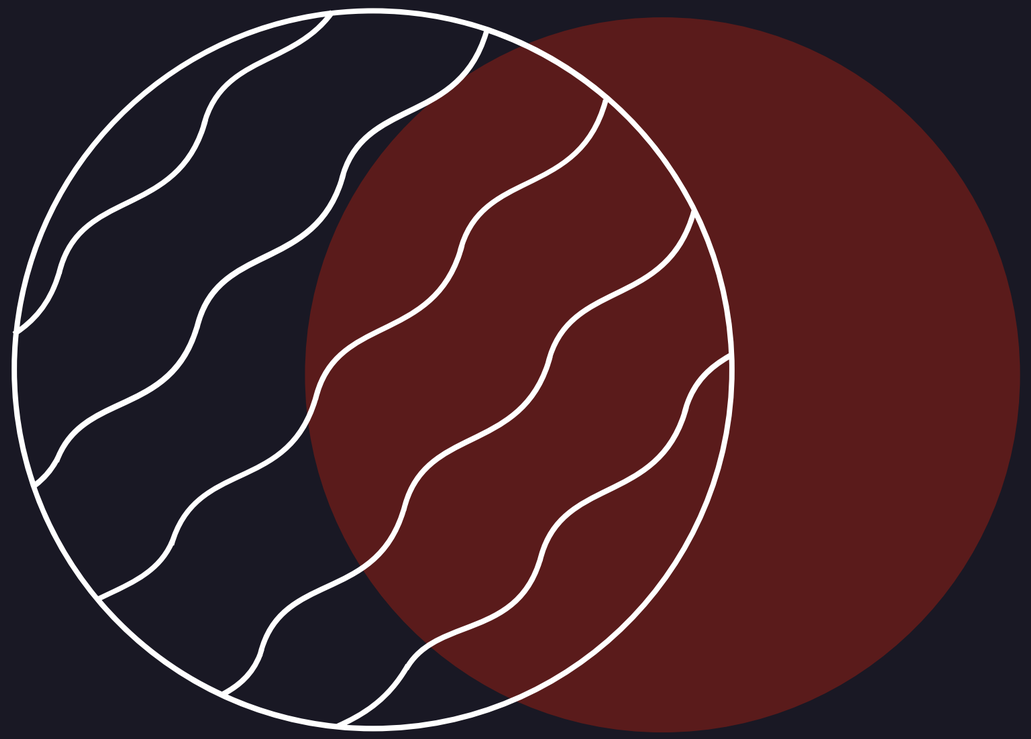

Alinma Bank application

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Introduction

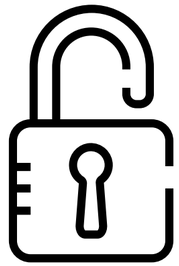
Analysis of Alinma Bank application.

Discussion of Clean Code, Code Documentation, Security and Design issues.

DISCUSSION

1 - SECURITY ISSUES

VULNERABILITY



1. Insecure SSL/TLS protocols should be avoided.

2. The Cipher Block Chaining IVs should be unpredictably unpredictable.

3. Insecure techniques of creating temporary files should not be employed.

BUGS

1. Before assigning math operands, they should be cast.

2. Methods should not be named "tostring", "hashcode" or "equal".

3. Variables should not be allocated to themselves.

4. Unary prefix operators should not be used more than once.

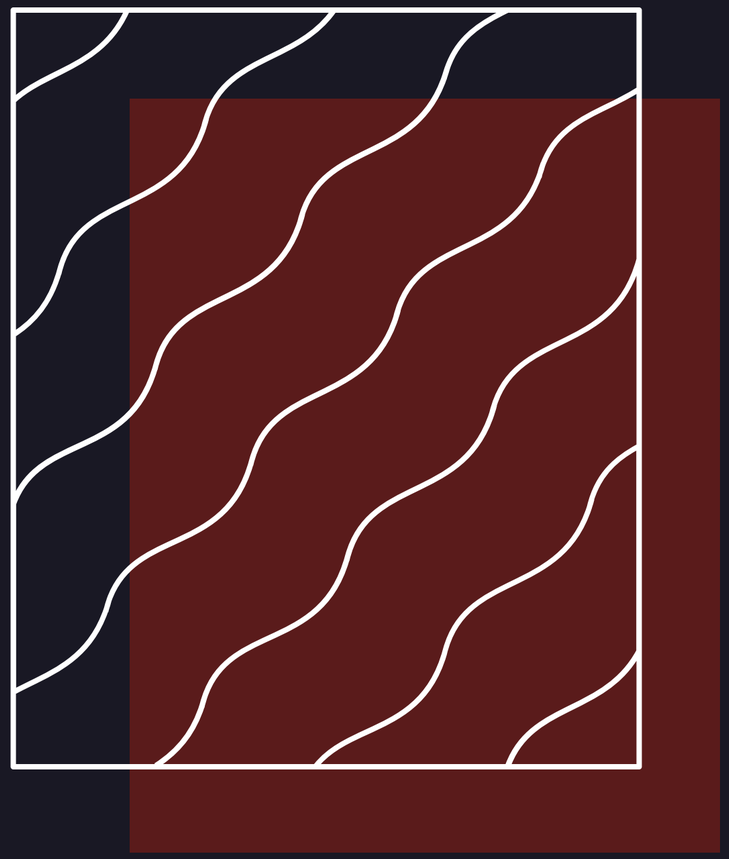
2. Modifiers must be declared in the proper sequence.

1. Methods should not be left blank.

CODE SMELLS

3. Instead of returning null, empty arrays and collections should be returned.

4. To check for emptiness, use Collection.isEmpty().



2- CLEAN CODE

CLEAN CODE

clean code is the code that any developer can read and change easily.

1. Use coherent indentation.

2. The identifier should be meaningful.

3. The class name should be meaningful.

4. Vertical Density.

5. The Law of Demeter.

3- CODE DOCUMENTATION

CODE DOCUMENTATION

Code documentation is the thing that helps a person to understand the code. And not refer to the comments on the code only, it can come as a separate file containing a description of the code, how code works, what the code constraints, what is the input and output and several examples about how to run it like README file.

4- DESIGN ANALYSIS

EXTERNAL DESIGN

A user's experience depends on the design of the interface, navigation, and features of an app.

INTERNAL DESIGN

Low Coupling

High Cohesion

thank you