



Quality Assessment for Alinma Bank App

Section Code: 373

Assignment: Workshop1

1st Semester / Year: 2021

Supervisor:

Dr.Lamiis Alhazzaa



Outlines

01 Introduction

**02 Desgin
Analysis**

**03 Manual
Analysis**

**04 Codacy
static
analysis**

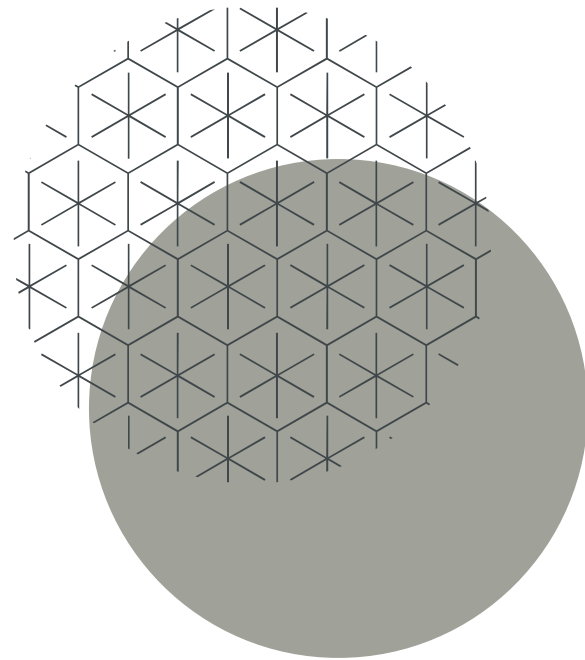
**05 MobSF
security
analysis**

06 Coclusion



01

Introduction



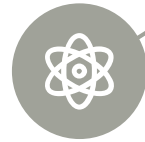
**Problems
faced**



**Purpose
and goals**



**Static tools
analysis**



For code style issues



Figure1: Codacy logo

For security issues



Figure2: MobSF logo

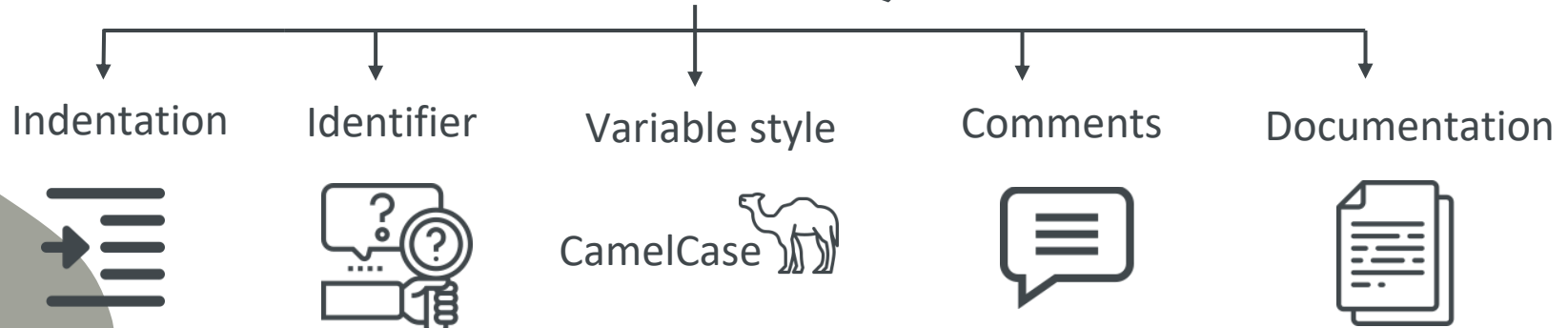


02

Manual Analysis



Manual Analysis





03

Design Analysis





Graphical User Interface (GUI) Analysis

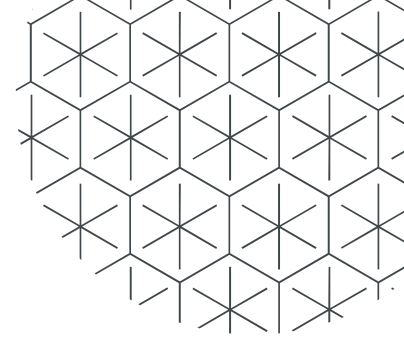


Figure1 : Alinma Bank Log-in Page

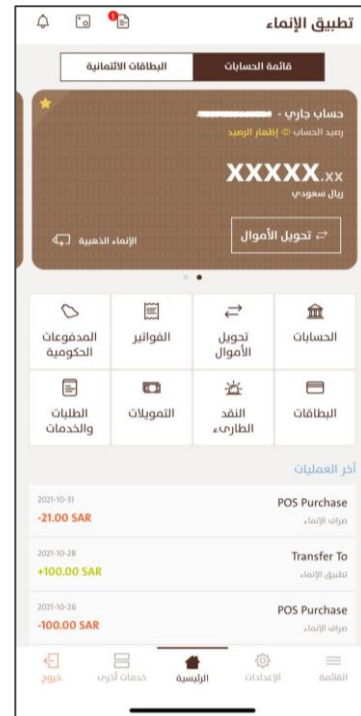


Figure 2: Alinma home page

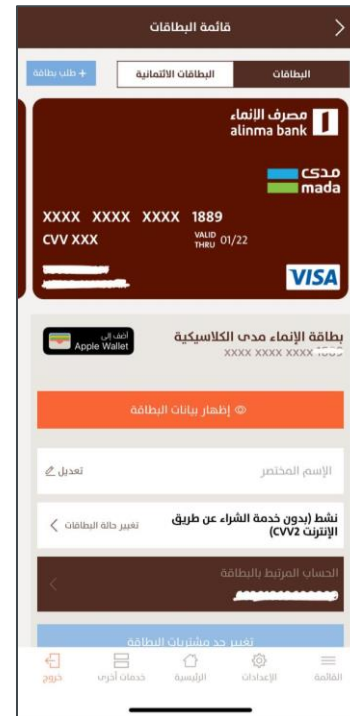


Figure 3: Credit card information

“match between the system and the real world”

heuristic



Design Principles

1

Cohesion

2

Coupling

3

**Single
Responsibility
Principle (SRP)**

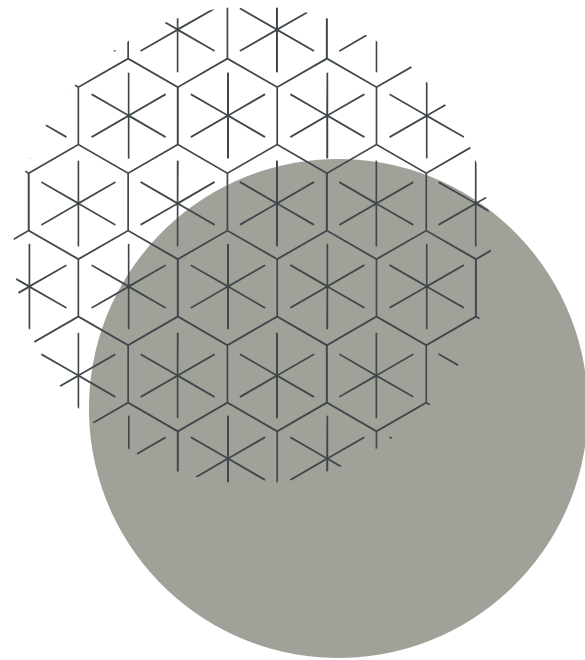
4

**Don't Repeat
Yourself (DRY)**



04

Codacy Static Analysis





Codacy

Consist of built-in tools

1

PMD static
analysis tool

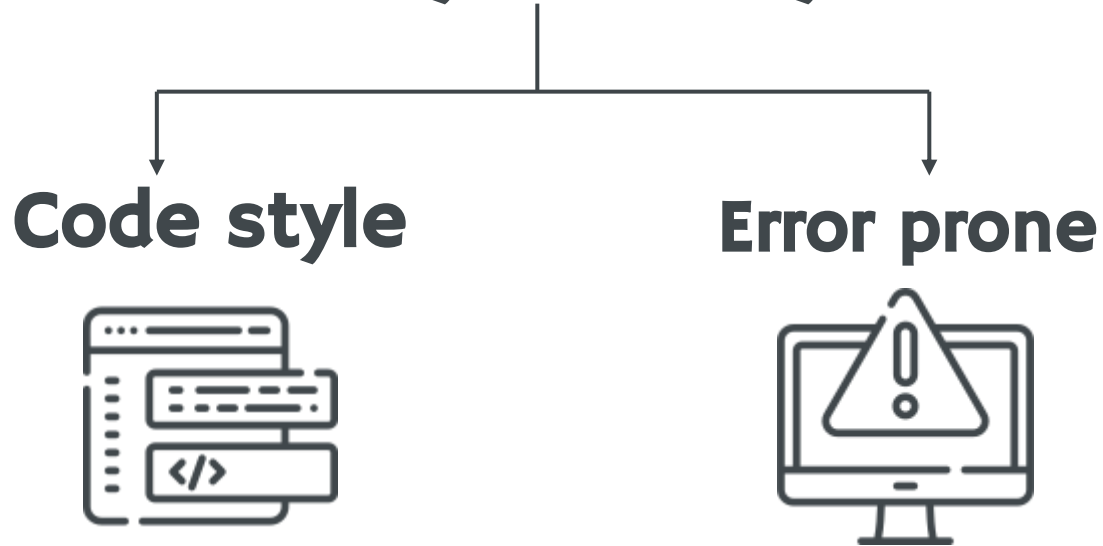


2

CheckStyle
static analysis tool



Codacy analysis





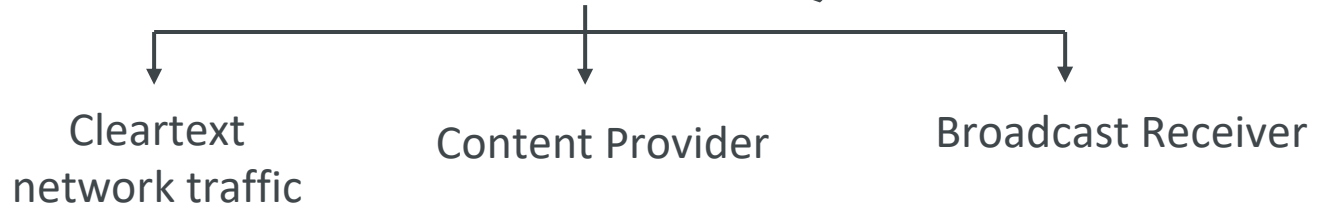
05

MobSF Security Analysis



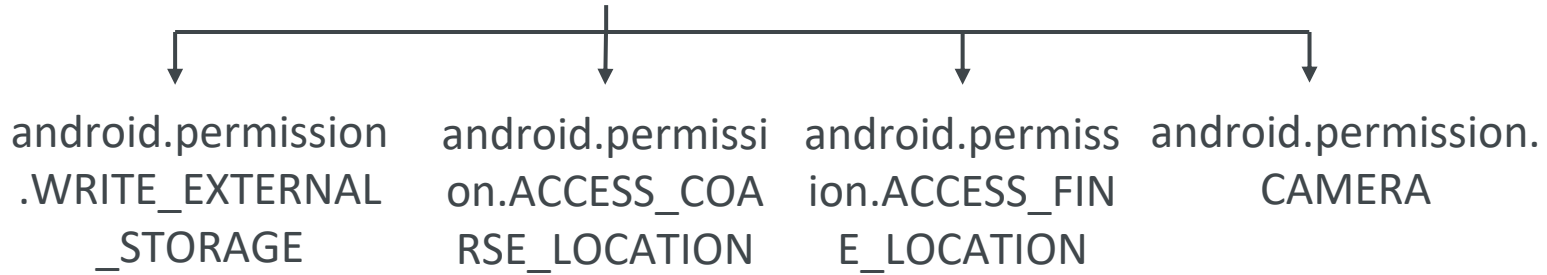


Mainfest Analysis






Application Permissions





</>Code Analysis



Files may contain
hardcoded sensitive
information like
usernames,
passwords, keys etc.

Write/Read
into External
Storage.

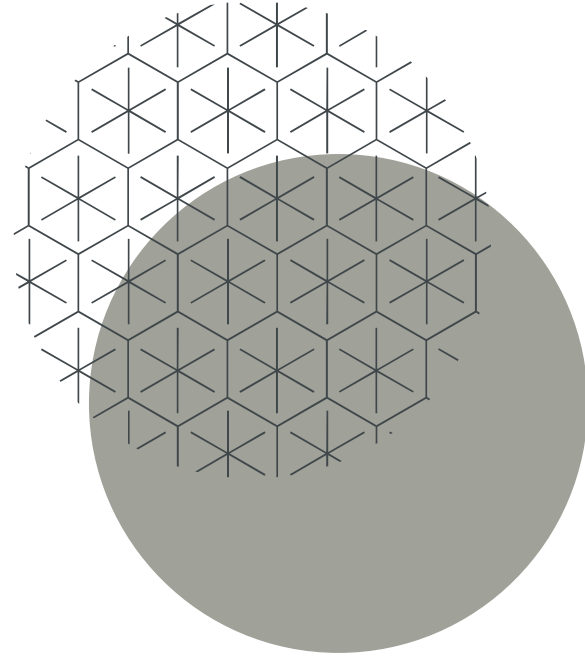
Execution with
Accessing
Privileges
(root).

Insufficient
Cryptography;
CBC mode and MD5



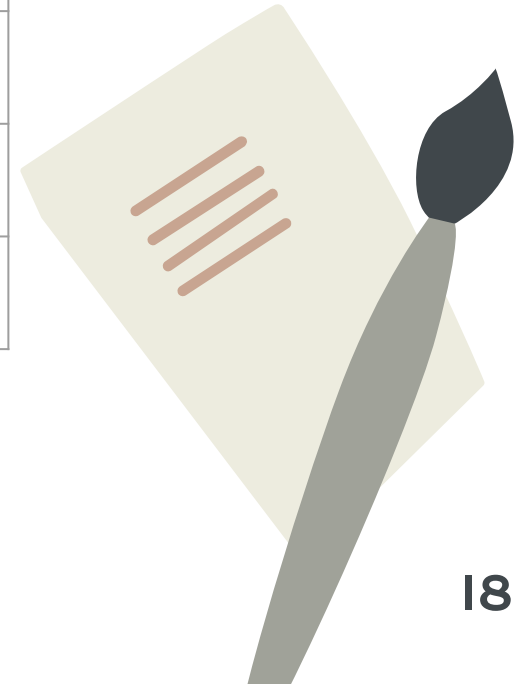
06

Conclusion



Students

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The background features several large, organic, watercolor-like shapes in muted colors: a brownish-tan shape on the left, a large light beige shape in the center, and a greyish-green shape on the right. A small, dark grey oval is positioned in the lower right area. At the top center, there is a simple line drawing of a leafy branch.

The End