UMETRIX – Evaluate Android APK File

Guideline Evaluator

Open UMETRIX

released version will not get decompiled properly due to obfuscated code

Upload Android APK file (debug version)

Decompile APK

Input APK basic information (Category, Domain)

Load Relevant Guidelines/ Validation Plan

Invoke Execution Service

For Each Guideline

Execute Validation Case

Get code recommendation

Next Guideline

Generate Report With Code Recommendation

Recommendation Engine

Read Data From Code Snippet Repository

Create Index using Lucene Search Engine

1. Template Name
2. Description
3. Code Snippet

Query Lucene for relevant code snippets for a guideline text

Pass Guideline Text

Code Snippet Library

Github code snippet repository

Match Between Guideline Text and Code Snippet Description