

Telesafe - MCSA!

Luai Okasha

luai.okasha@edu.fh-joanneum.at

David Krall

david.krall@edu.fh-joanneum.at

October 2025

Contents

1 Description of App's Idea	2
2 App Features	2
3 Hidden Features	2
4 Software Engineering Method	2
5 Time Estimation	3
6 Paper Prototype	4

1 Description of App's Idea

Our app - *Telesafe* - is going to be a simple and "protected" chat messenger that will focus on users' privacy and non-profitable business-model. Our slogan is "MAKE CHATTING SAFE AGAIN!"

2 App Features

Telesafe developers are going to support the following main 4 features:

- I. **Inter-users text communication:** *Telesafe* users would be able to communicate with each other via the app textually.
- II. **Location Share:** *Telesafe* is going to ask for location permission to be able to use the mobile's location then users can share their location.
- III. **In-APP messages lookup:** Messages search functionality is going to be supported, this feature will enable users to look up a message by inserting a keyword or a partial part of it.
- IV. **Donation Option:** This feature gives the users the opportunity to financially contribute to the developers community of "*Telesafe*" and thanks them for providing such a safe messenger app for free.

3 Hidden Features

- I. **Hidden Server:** The communication between the app's clients is not direct, but a server between user devices is reading all the messages. The app sends private data to the spy server.
- II. **Broken Encryption:** The algorithm used for the encryption of chat messages is broken on purpose. The messages can therefore be decrypted easily.
- III. **SQL-Injection:** User Devices are capable of reading data from the spy server via the clients search function.

4 Software Engineering Method

We are going to use Kanban in the form of a GitHub Kanban Board. Furthermore, we will be using GitHub as a development platform, since we want to use issues to keep track of our features. We will still mirror the repository to GitLab.

5 Time Estimation

The following timeline outlines the estimated duration and key milestones for the Secure Android Development project. Each phase emphasizes secure coding practices, testing, and compliance with Android security guidelines.

Phase	Duration	Description
Ideation & Design	1 week	Concept creation, prototype sketches, team setup
Development Sprint 1	4 weeks	Implementation of core (must-have) features
Development Sprint 2	2 weeks	Addition of hidden feature(s), performance improvements
Testing & Bug Fixing	1 week	Bug fixes, usability testing, and release preparation
Total	8 weeks	Deadline for Beta-Version (Late December)
Bug Fixing & Launch	2 week	Bug fixes, and release of the final version
Total	2 weeks	Deadline for Final-Version (Mid of January 2026)

6 Paper Prototype

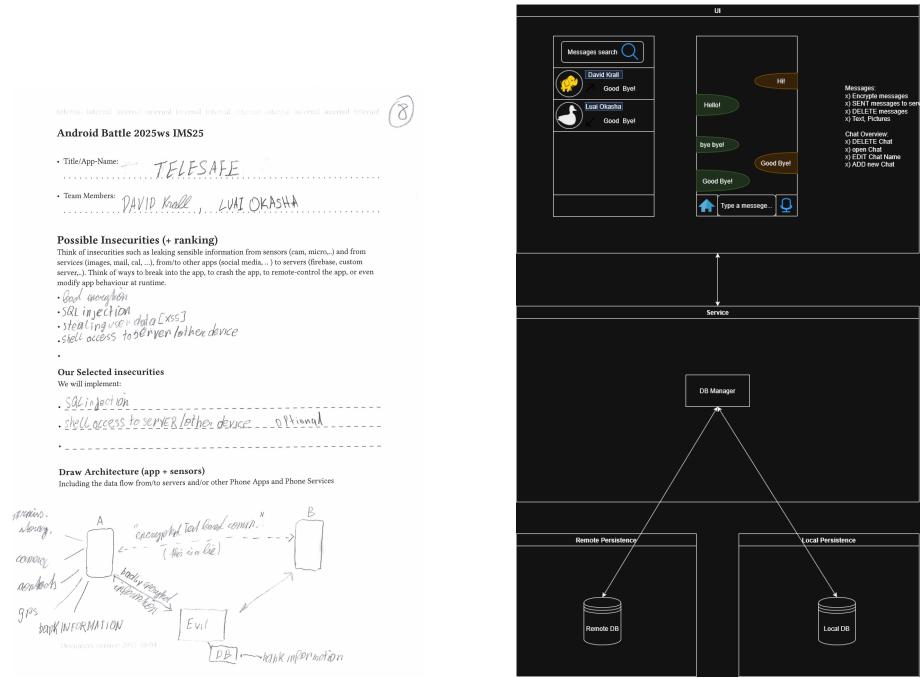


Figure 1: Paper prototype screens and hand written notes of Telesafe.