Metadata

Project Name: Hyggelig Secure

Team Name: Hyggelig Security

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Demo Summary

We intend to demonstrate the Password Tools, the Bitcoin Wallet, and the Encryption Tools. For the Password Tools, we will first generate a password randomly and store it in the Password Manager, then we will store our own password in the Password Manager and display the passwords stored in the local database. To demonstrate the Bitcoin Wallet, we will generate a new address and read said address's balance in BTC. Finally, we will show off the Encrypt/Sign and Decrypt/Verify features of the Encryption Tools by encrypting and decrypting an on-device file with a symmetric algorithm. Note that at the time of writing, encryption/decryption and signing/verification are currently non-functional; no files will be generated and the user will instead be shown an appropriate popup message.

Status Report

The functionality of the Bitcoin Wallet and Password Tools is complete, requiring only some minor tweaks. The Help module is also functional, however it has no articles at this time. The Encryption Tools are currently non-functional, but will be our main priority. There are no cloud backups of the password vault at this time.

Our primary obstacle thus far has been our lack of experience in Android development; we needed to take some time to understand the tools, capabilities, and limitations of Android OS, therefore we progressed slower than we hoped for. We also promised some features that we now realize may not be so feasible to implement.

Over the next month, the subsystems will continue to be integrated together. Once the encryption tools are integrated with password storage, local and cloud backups of the password vault can begin to be implemented. The help topics and help text will need to be fleshed out for each activity, and the appropriate help page made available from the different parts of each activity. The cryptocurrency activity currently satisfies the minimum functionality - usability improvements will be implemented.
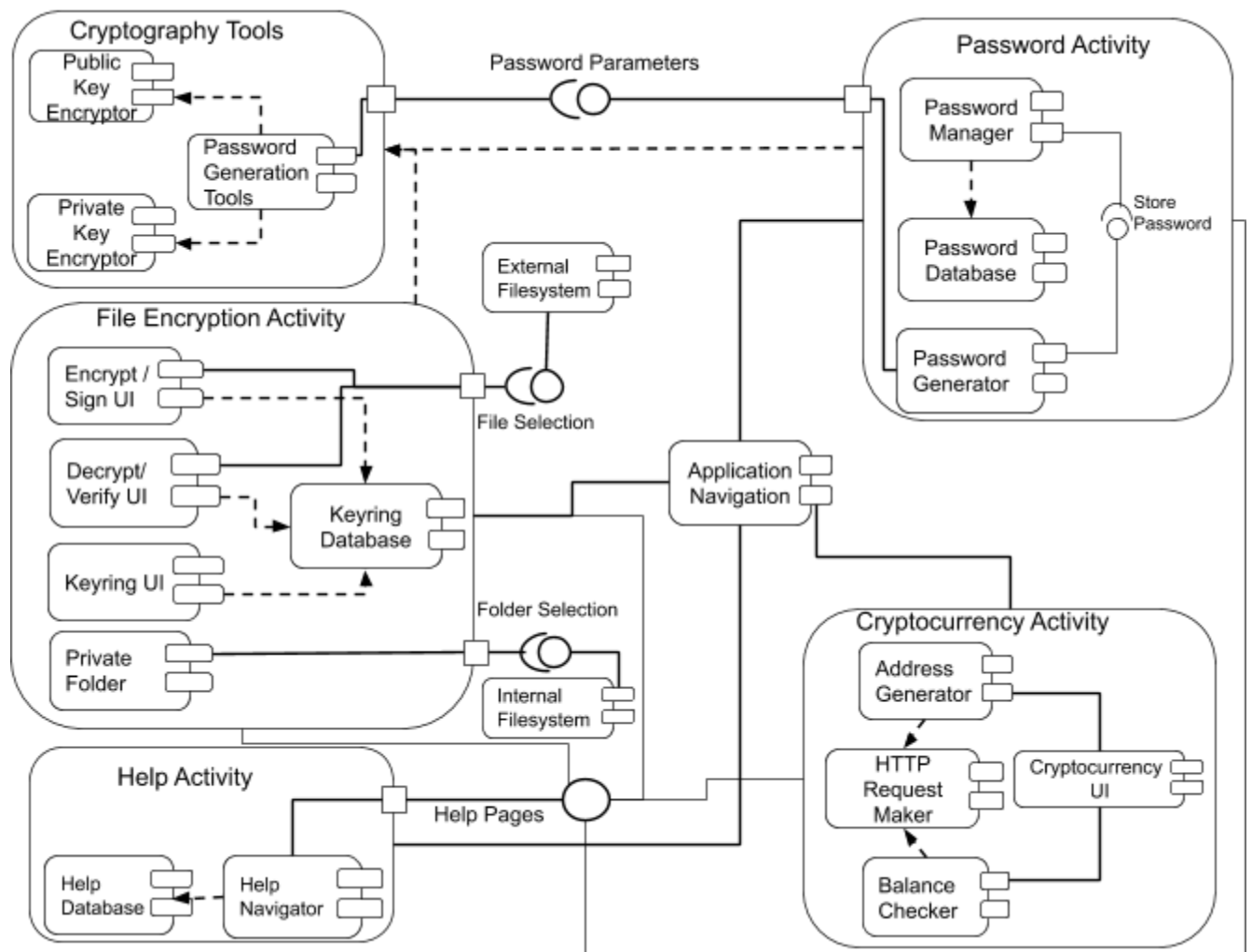
Figure 1: Hyggelig Secure UML Component Diagram