

Executive Summary

EggBeater

Purpose

The consistent lack of file security has become a serious issue within the consumer market. With the recent worries of personal security triggered by information obtained from recent years, consumer's need a reliable way to keep their files and information secure from threats.

Our purpose was to create an encryption system that provides file security that surpasses other systems. Other file encryption systems required only a strong password to access the encrypted files, while our system uses the user's fingerprints to access the encrypted files. Eggbeater, a tool for generating encryption keys from fingerprints, will provide consumers with a free and reliable way of securing personal and private files.

Design & Methodology

Eggbeater's architecture is split between three main domains, the graphical user interface, the command line interface, and the embedded interface. This configuration loosely follows the Model-View-Controller architecture style where the user GUI is view, the embedded interface is the model, and the command line interface is the controller attribute.

Our team followed the agile development method of developing software with alterations that best fit within the scheme of the project. These alterations come from the embedded interface and must be accommodated for the system to be complete. The verification mostly follows test-driven development and the testing is composed mainly of Unit Testing and Acceptance Testing.

Conclusion