Secure File Sender

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The “Secure File Sender”, herein referred to as SFS, is a dissertation project to create a secure communications platform where data is secured via cryptography in the three states: Rest, Transit, and Computation.

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# Development

To aid in the development process, an appropriate model can be adhered to such as the waterfall model. While usually the waterfall model may not be the most appropriate, as this project is in a fully defined environment with no unknown factors. After requirement specification and design, the single development stage when supplemented with ad hoc testing would allow the complete program to be developed.

### Requirements

To develop the SFS, the requirements for such a program need to be ascertained, abstracted into the functional requirements, and decomposed into functions and processes which can be implemented to create the SFS. The aim of SFS, from Text 1 below, is to provide a way to transfer files and messages while keeping the information secure:

|  |
| --- |
| To transfer files and messages securely with data stored and used securely such that no information regarding users or activity can be obtained via files on clients and servers, attempting to secure data in its 3 states (Transport, Rest, and Computation). |

Text 1: Aims and Objectives of Secure File Sender from project proposal

## Analysis

To keep information secure, cryptographic suites such as https://www.esecurityplanet.com/networks/strong-encryption/

## Design

## Implementation

## Testing

## Operation