**Boğaziçi University**

**Software Engineering MS Program**

**SWE599 Project, Fall 2015**

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**Safe Send Project**

**Interim Report**

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# 1. Introduction

The purpose of the project is to develop an iPhone application which transfers photos or videos to the contacts with a safe and secure way. The application provides safety and security with the encryption of the selected file.

Photos or videos of different content may need different security levels. A photo of a person with a city view may not require a high level of security on transferring it. On the other hand, a photo of a company’s annual financial report should require a high level of security. So the application offers to users different levels of encryption algorithms such as moderate, secure and highly secure.

# 2. Overview

The project consists of three main parts: ios application, wcf service and database. The database stores the user’s personal information and history of the file transfer operations. Wcf service provides the communication between the database and the ios application. Ios application’s function is to send and receive the photos and videos.

The user will select a contact from the contact list to send a photo or a video. After selecting the contact, thumbnails of the photos and videos will be displayed on the application. With the selection of the media, the user will select the level of encryption. According to the encryption level, the content of the media will be encrypted. Then, the encrypted data will be sent to the database via wcf service.

The receiver application will check if there exists a waiting file to receive. If there is, the receiver application will receive the data and the level of encryption via wcf service. The downloaded data will be decrypted according to the encryption level and the file will be saved to the storage.

# 3. Work Done

Mainly the project contains three development parts: database development, wcf service development and ios application development. Below table shows the works and their status on the project.

|  |  |  |
| --- | --- | --- |
| **No** | **Work** | **Status** |
| 1 | Requirements Specification Document | Completed |
| 2 | Design Specification Document | Completed |
| 3 | Database Design | Completed |
| 4 | WCF Service User Methods | Completed |
| 5 | WCF Service File Methods | Completed |
| 6 | WCF Service Deployment | Completed |
| 7 | ios Application Register and Login Screens | Completed |
| 8 | ios Application History Screen | In progress |
| 9 | ios Application Contact List Screen | Not started |
| 10 | ios Application File Transfer Operations | Not started |

# Appendix A: Requirements Specification Document

# Appendix B: Design Specification Document