

# **SOFTWARE REQUIREMENTS SPECIFICATION (SRS DOCUMENT)**

*For*

**<FILE TRANSFER APPLICATION>**

*By*

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## **1. INTRODUCTION**

### **What Does File Transfer Mean?**

File transfer is the process of copying or moving a file from one computer to another over a network or Internet connection. It enables sharing, transferring or transmitting a file or a logical data object between different users and/or computers both locally and remotely.

#### **1.1 PURPOSE**

The purpose of this document is to build a simple tool (File transfer App) that facilitates data sharing or reception between two or more users with or without an Internet connection using the programming Languages, Java and C++

#### **1.2 DOCUMENT CONVENTIONS**

- *Socket*
- *Protocols*
- *Port number*
- *IP Address*
- *Directory*

#### **1.3 SCOPE**

File sharing allows several people to use the same file data. Some users may be able to create and modify files depending on access permissions, while others may only have read access or even no access.

## 2. OVERALL DESCRIPTION

### 2.1 PRODUCT FEATURES

The major features of an email client system is as shown below:

- **Group collaboration/ Communication:** *It provides two way file secure sharing and communication capabilities to double productivity*
- **File transmission.** *This function pertains to the transfer of data over a digital channel of communication, which involves either a point-to-point transmission or a point-to-multipoint transfer.*
- **File Version History:** *A usual issue when collaborating with a team online is keeping track of all versions of files being exchanged. This is why file sharing apps are keeping copies of every version of files being collaborated upon to enable users to still access older and deleted files if needed.*
- **Unlimited file transfer function:** *which allows you to safely share as many files as you need*

### 2.3 CLASSES OF THE SYSTEM

- *File transfer app class*
- *Secure Connection class*
- *Devices class*
- *User class*
- *File class*

### 2.4 ASSUMPTIONS AND DEPENDENCIES

- The system is used on a Windows Operating System

### **3. SYSTEM FEATURES (MODULES)**

- *File sharing and collaboration*
- *Security*
- *Send a file*
- *Receive a file*
- *Get IP Address*
- *Get Connected Devices*

### **4. EXTERNAL INTERFACE REQUIREMENTS**

#### **4.1 SOFTWARE REQUIREMENTS**

- Operating System: Windows 10
- Languages/API: Java Development Kit (JDK), NetBeans, MySQL
- Documentation Tool: Microsoft Word

#### **4.2 HARDWARE REQUIREMENTS**

- Processor: Minimum i3
- Hard Disk: Minimum 5GB
- Memory: Minimum 1GB RAM

#### **Advantages:**

- Eases file sharing
- Convenience: The software allows you to easily, conveniently, and instantly access and share files between peers.

#### **Disadvantages**

- Security is not 100% assured
- Scalability
- Loss of Data Control

