**Synopsis**

**on**

**Transferring**

**files**

Name:R.Krishna dheeraj

Reg no: 11802912

Roll no:44

Name:B. Maneesh gupta

Reg no:11801502

Roll no: 36

Section:k18QW



Lovely Professional University

Submitted to: Sagar Pande

Table of Contents

1. Abstract

2. Uses of file transferring

2.1 Cross Platform

2.2 Speed

2.3 Hotspot operated

3. User interface

4. Modules

4.1 Send

4.2 Receive

4.3 History

4.4 Time

4.5 Connect

4.6 Help

4.7 Exit

4.8 Contact us

5. Libraries

6.DFD

7.References

**Abstract**

This project is concerned with file sharing systems. To find such files or programs is a very difficult job and it is time-consuming, but with the presence of technology, computers, networks, and the internet, the process of communication became very easy. And It’s a project which helps us to transfer files from one device to another device without use of internet the sender and receiver both should have the common application in order to transfer the files Based on these facts, this project aims at creating a file exchange system.

**1. Introduction**

**The Concept of a File-Sharing Application**

A file-sharing application like shareit is the app that is responsible for sharing or transferring files from one device to another. The concept is based on networking, where there are a sender and a receiver. Both of the devices have their IP address. One of the devices must initiate or create a Wi-Fi hotspot while the other must be connected to that hotspot.

Once the two devices established a connection, transferring files can be done. The sending device will choose the file/files, while the receiver just needs to wait for the files to be transferred completely. it does not use any internet.

This transmission does not use any type of cables or data.

It uses Transmission Control Protocol (TCP) to transfer the files. The data to be sent is broken down into smaller pieces and it is called “**packets**.” The broken data packets are then transmitted to the receiver. When all the packets are received, the receiving device combines them and convert to the original file again.

2.Uses of file transferring

****2.1. Cross-Platform****

File transfer runs on different platforms whether it is smartphone, and computer. It can be downloaded and installed in Windows, Android.

**2.2. Share Everything in a Lightning Speed**

With file transferring, all types of files can be sent. You can share everything including images, audio and video files, documents, contacts and even applications. There’s no limit on transferring when it comes to file size.

One of the best features of file transferring is that it can send and receive a file in a matter of seconds. No matter how large the file is, and how many files are you going to send, it will not take a long time to finish transferring.

**2.3. Wi-Fi Hotspot Operated**

Older mobile phones rely on Bluetooth to transfer and share files. but now a days we don`t require a Bluetooth or an internet to send and receive. You only need to create a WiFi hotspot which uses IP address and establish the connection between the devices, and transferring can be done.

3.User interface

The file transfer app is a different. When you launch the app, you will be greeted by two buttons at the top Send and Receive

when clicking on send it access the internal storage and external storage (memory card (if present)) of the systemIt opens file manager

Files comes with a built-in file manager. While it lets you view your files according to the categories such as Apps, Images, Videos, Documents etc., you cannot view the entire storage. That is, each and every folder on your device will not be shown. The files are automatically categorized into these folders.

Even this file transfer lets you view the history of shared items. You will find it in the Others tab where you can also view the received items

So, if you choose the option receive option you will be scanning the area for the sender by turning on the hotspot.

After your devices are connected, you are officially able to share files between them.

4.MODULES

4.1 SEND:

Used by a user to initiate the process of sending the files.

Need to connect the hotspot of the receiver.

4.2 RECEIVE:

Used by a user to receive the files from the sender.

Need to turn on the hotspot.

4.3 HISTORY:

We can check the history of data we sent as well as we

received from time to time

4.4 Time:

We can know the time required to transfer the files

4.5 CONNECT:

Connecting to social media

4.6 HELP:

Incase if you stuck with any problem we are here to assist

you. User can describe their problem here.

4.7 ABOUT US:

Core product, corporate vision, corporate values, mile stones

4.8 CONTACT US:

Facebook, twitter, Instagram, you tube and mail.

5.Libraries

5.1. OS

This module in Python provides a way of using operating system dependent functionality.The functions that the OS module provides allows you to interface with the underlying operating system that Python is running on be that Windows.

5.2.Socket

This is used to connect to the users and transfers the files

5.3.Tkinter

We use this library for developing user interface.

5.4.Time

This function returns the number of seconds passed since epoch.

5.5.Threading

Threading  is used to run multiple threads (tasks, function calls) at the same time.

6.Dfd’s

Events

2.End

1.Start

Events

6.1 Level zero DFD for transferring files

*Send*

*Transfer of files*

User

*Send files again*

6.2 Level one DFD for transferring files(from sender perspective)

event *Transfer of files*

User

*Send files*

6.3 Level one DFD for transferring files(from receiver’s perspective)

7.References

<https://www.guidingtech.com/shareit-files-go-comparison/>

<https://lenovodev.com/blog/metadata/2015/07/29/shareit-the-faster-way-to-share-content/#.XZgj90YzZPY>

<https://www.kau.edu.sa/Files/611/Files/51195_BS29en_project_File%20Sharing%20System%20for%20the%20Students%20of%20the%20Faculty%20of%20Computing.pdf>

<https://quicktechtipsandsolutions.blogspot.com/2018/08/how-to-create-file-transfer-program.html>

<https://www.youtube.com/watch?v=27qfn3Gco00>

<https://github.com/topics/file-sharing?l=python>