Smart File Sharing

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Abstract–Smart file sharing is the software used to share the files between the two or many devices. This software method will make the user to place file to transfer one time and many user can have access to receive it from their mobile device so sender need not to concentrate in sending same file all time for multiple users as like a temporary cloud (or) like buffet system. This file sharing is mainly focus to media files sharing through wireless device like smart phone devices. This software will learn the environment of each data which needs to be share and what should sent and what should authenticate, and who can access the particular file. This software will notify about each file transaction for getting verified by senders. The most important new feature is receiver can browse the files in sender's devices from their own devices using this software to select what they need and this software consists of main feature which is live identification which help to tag the environment for each file according to owner opinion.

I. INTRODUCTION

Smart file sharing this software is going to be developed in the programming language Java This Project has intention to create smart file sharing software without using internet data connection only for local by using the Wi-Fi but it differs from others instead of a sharing each time this results to broadcasting the needed file almost like buffet system to share the photos videos and all other miscellaneous files while in need. It's planned to create the temporary local cloud or wireless Lane connectivity among the smart phone device as now all the devices are having the sufficient hardware configurations for sharing data.

II. EXISTING FILE SHARING

Bluetooth

Bluetooth is a wireless technology used for exchanging data over short distances [1][2]. In Smart phones users & pc users were using to share files between them with in minimal distances of 6-10 meters range advantages of Bluetooth data transferring which is very fluid to use to pair each devices it's easy to share the small sized data between two devices[2]. Off course the Disadvantages are there in Bluetooth it works only in short range, less speed, File transfer is not possible in parallel connection and for large files….etc.

Wi-Fi

Wi-Fi is a local area wireless technology that allows an electronic device to participate in computer networking. Wi-Fi file sharing is the new and fast way of sharing the file between the devices like smart phone, computers in nowadays cause of fast communication Wi-Fi is being used when compared to other sharing hardware's[1][2]. As like it name is differs from others but with same way of sharing the data.

NFC

Android mobile operating system uses also NFC method to transfer the files between two devices[4].This will automatically copies files from one device to other and notifies the user when it's finished[3][5]. This file transferring enables by simple gesture method and the process of transaction starts just by touching each other devices.

III. DISADVANTAGES IN EXISTING DATA SHARING

There no major disadvantages in transferring file for receivers and as they are messing with file which is not required cause of improper understanding, but the senders were struggling for sending who are having the actual original file for what they want to share. As a example while taking the smart phones the user who were handling the file transferring software in case of Bluetooth or Wi-Fi, user have to select the file Each time for multiple sharing but they can select many number of file to share in one transfer.

So as it shows the smart phone users are not sharing but instead of they are made as a file server so the existing data sharing is not smart enough to do the automated required process in the way of making the user as data sharer not a data server. There is not enough privacy in sharing like what the software is sharing and for whom it is sharing.

IV. SMART FILE SHARING

This software is going to be developed with the programming language Java. The solution for the file serving to actual file sharing is to design the software for file sharing likes the buffet method system. This process can works locally without using the internet connections. This software consists of a breakthrough feature in sharing which is having learning capabilities of each file

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which is created or downloaded. This software will learn about the each file with the details in which time it is created, which place, which Time, and with whom it was created or downloaded.

A small example of learning process of this software will reads the file which is downloaded or created in memory as an example, a photo from a camera in mobile devices this software will read the environment by scanning the related hardware through its own software which is around locally without using internet. When the photo shutter button is clicked, this software will automatically scan and get the information from nearby user using this same software. This even tag the person who is in the photo so if any friend is in need of the particular photo only they can browse the photo from their mobile device through this software to get the needed photo directly from their devices. Other private content cannot be displayed for the same browser this makes easier instead of approaching the owner always.
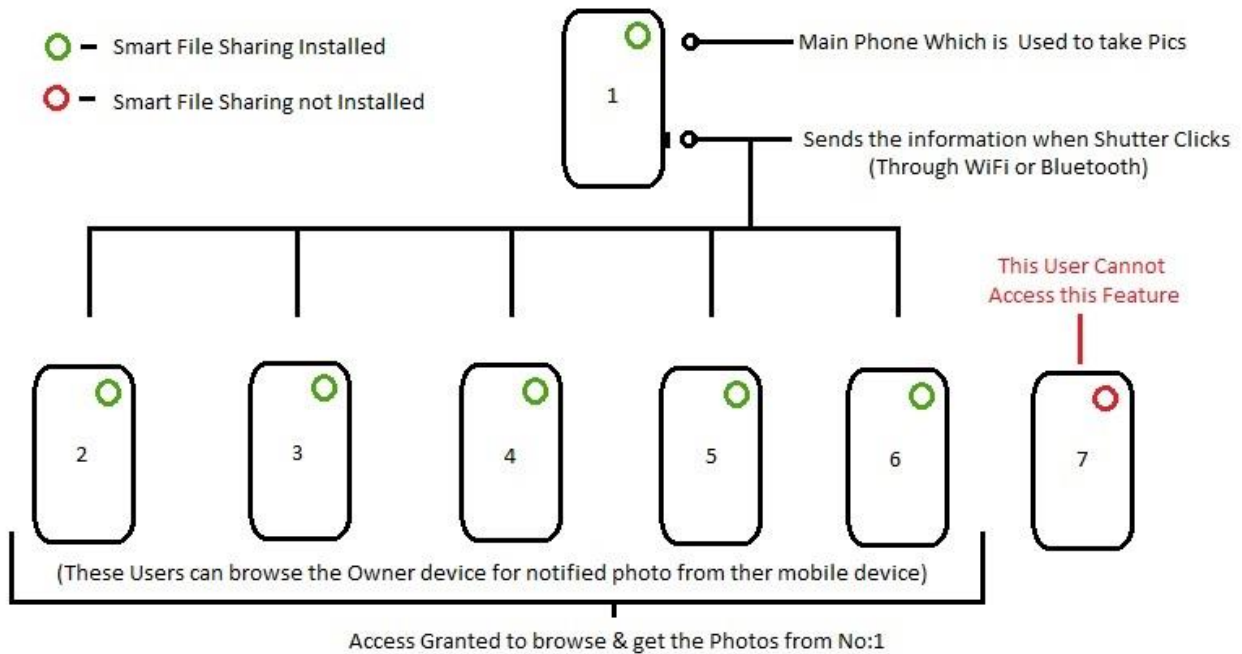

Fig.1 Smart tag in Smart file sharing

User browse:

User Browse is the special unique feature included in this software that makes senders more comfortable to share for those who installed smart file sharing in their devices. This feature do not show all the content of the owner's mobile but it will shows only required file which he got accessed granted to get it. Browser will show only the data by using software learning capability and also its shows the content what the owner recommends to show

Security:

Security is the major part of this software to protect privacy for the owner of each device in what others should see & what others should not see everything is in user's hand. This software is planned with the concern of security in each functional features and components.
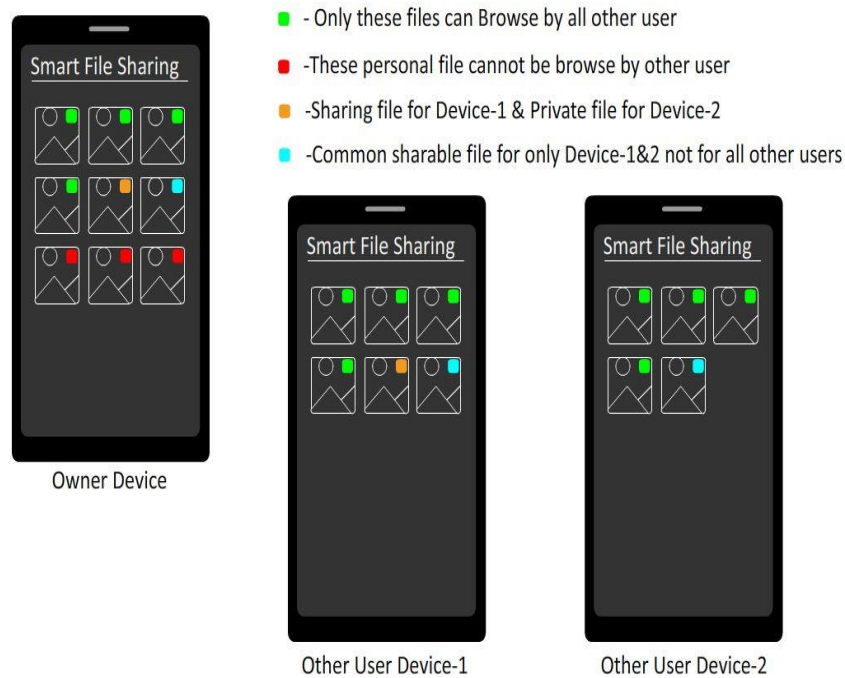
Fig.2 Files Browsing in Smart file sharing

Smart identifying:

Media file plays major role in sharing among personal devices but there is no privacy in sharing the unknown file like photos and videos. Whenever user shoots photos or videos from their smart phone software should have to identify the environment identifies the person who were there with owner and tagging them automatically into the each individual photos or videos that owner shoots, this will be possible by scanning surroundings through Wi-Fi or Bluetooth in need as the other smart phone user if they entered their identity in this software.

V. CONCLUSION

Thus the smart sharing software will be created on the platform Java and it fulfills the needed solution for the problems and struggling in what the senders and receivers were facing as uncomfortable and satisfies the users who use to share the data between devices like smart phones and personal computers.

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