***Name Shahzaib Aziz***

***Roll No 160554***

***Application Name File Hub***

***Semester Project of Mobile Computing***

***Aim of the Project***

One key function of this project is sharing a file between different android devices at the same time with the help of wireless communication networks from source machine to the destination machine .One device send a broadcast message to other and other devices receive that message. Server android device has the IP of the client devices. Both devices are connected with each other via a TCP(transmission Control Protocol) or HTTP. Java threads is responsible of sending data to the different devices one Java thread use for one device and number of threads depends upon the number of devices connected with server device. File converted in bytes and send through wireless connection.

***Audience***

This project is for every Android user. Age, gender, profession, place and other factors are not important for this application. Only user have general knowledge about android device (for example how to download an application from the PlayStore)

***Challenges presented by the Project***

How different devices connected with each other.

How java threads manage to sharing data.

Different format of files (e.g. mp3 ,Png ,mp4,mkv).

Handling IP of the connected devices

This project is for every Android user .Age ,gender ,profession,

***Outcomes***

Some of the learning outcomes from this project are

Connecting different devices with the help of android framework.

Sharing information through network.

Deeper understanding of how java threads creates and managed by Android OS.