__Project__ __Title__ : WiFi Chat

Abstract :
>An app for text chat based on WiFi direct and could add support for images if time permits.

Implementation :
>The basic operation of our app will be to send a file from one device to another through WiFi Direct/through APIs such as:

>WiFi p2p: For creating WiFi connection between two devices.

For transferring files:

>Server Socket:On server, for receiving files from client.

>Socket:On client, for sending files to the server.

Sending messages to all the members of a group can be implemented by sending messages to all devices in range and stopping when it reaches a device on which message has already been received(like depth first search).

Timeline :
>**Week 1**   : Learning android programming/ Java/XML
>**Week 2**   : Making a basic WiFi file transfer app
>**Week 3&4** : Coding for the main app & deciding upon network optimization (Reducing data duplicacy)
>**Week 5**   : Testing & debugging
>**Week 6**   : Solving any left difficulties

Funding :
>No funding required

__Learning__ __Aspects__ :
>1. Android Programming (Java, XML, APIs)
>2. Network architecture
>3. Software development