**WIRELESS P2P FILE SHARING** BY-:

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**NOTE: OUR PROJECT IS FULLY WORKING ON ECLIPSE IDE** (**STEPS ARE SHOWN BELOW**)

We have developed 3 project files

In the zip file you will have a folder names wireless project. In this folder we have 3 more folders:

1.Peer: - This acts as a peer on 2 devices. It asks for connection to the tracker. Fetches files from the tracker and asks for transfers from other peers.

2.Tracker: This tracks all the peers connected and sends the filenames available to peers.

3. android-support-v7-appcompat-master: This is for compatibility. (Please do not edit this. It is an imported project for android)

***STEPS TO RUN ON ECLIPSE.***

1.Start Eclipse and go to Eclipse market place. You can find this under Help.

Type ADT in the search view.

Install the ADT by Google Inc.

2. Download the android-sdk file from <https://developer.android.com/studio/index.html>

3. Set this android-sdk as the preferences for android on eclipse (Window->Preferences->android->SDk Location). Once this is done it may ask you for options to install packages of various APIs of android.

4. Select API 21 from SDK list and install it. Make sure all other necessary files required by the SDK are installed.

5. Now we are set to run our project

6. On the package explorer of eclipse Right-Click->import->android->Existing android Code into Workspace->Click on next.

7. After this, upload folder named Wireless Project without the readme file as the Root directory.

8. Select all 3 projects and click finish. The projects will appear on the package explorer.

9.Go to the properties of Peer and Tracker. Inside that go to android. Check if the android-support-v7-appcompat-master has a green tick next to it. If not then remove and add android-support-v7-appcompat-master from that location using the remove and add options.

10. Once no compilation errors are seen, you will need 3 android phones to install 2 peers and one tracker. Connect phone to the laptop using USB.

11. Right-Click on peer project and click RunAs android application. A window will open and you can select the attached phone. Do that for tracker on the other phone also.

12. The files will get installed and you can use it as an application on the phone.

***REFERENCES :***

* https://github.com/koush/android-support-v7-appcompat
* https://developer.android.com/guide/topics/connectivity/wifip2p.html
* https://developer.android.com/reference/java/net/Socket.html
* https://developer.android.com/reference/java/net/Socket.html
* https://github.com/cpsrnidh
* http://stackoverflow.com/questions/31146788/testing-sockets-example-on-android-studio
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* https://github.com/koush/android-support-v7-appcompat