

SOCKET PROGRAMMING

149

149

Android Manifest

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="edu.stevens.cs522.chat.oneway"
    android:versionCode="1"
    android:versionName="1.0" >

    <uses-sdk android:minSdkVersion="10" />

    <uses-permission android:name="android.permission.INTERNET" />
    <uses-permission android:name="android.permission.WIFI" />

    <application
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name" >
        <activity
            android:name=".ChatServer"
            android:label="@string/app_name" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```

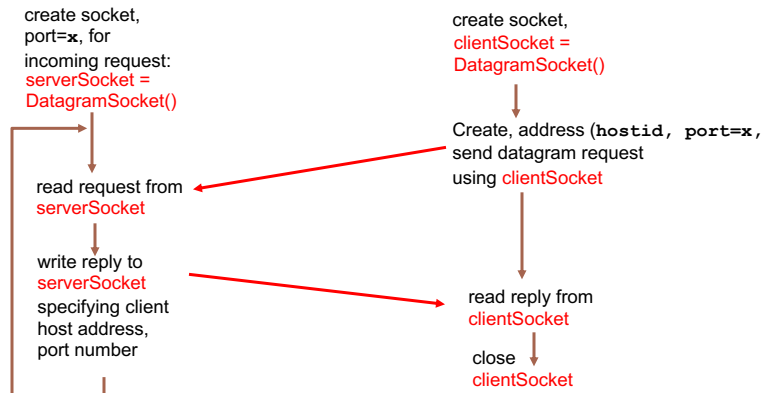
150

150

Client/server socket interaction: UDP

Server (running on `hostid`)

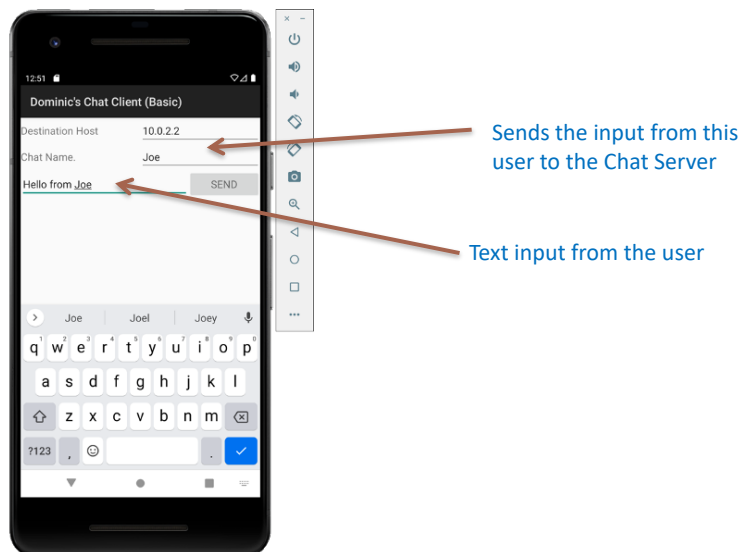
Client



151

151

Socket Client



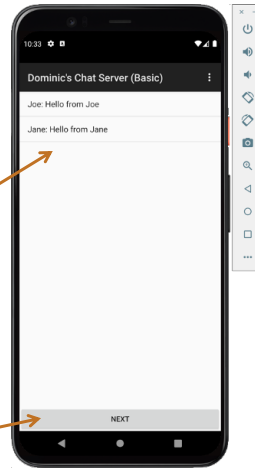
152

Socket Server

- Create an application that acts as a chat server to receive messages from the chat client

List of messages received so far

Press to get the next message



153

153

Handling Exceptions

```
try {
    // Operations that may fail
    // and throw an exception;
} catch (Exception e) {
    Log.e(TAG,
        "Caught UDP Exception: "+e.getMessage());
    Toast.makeText(UDPServer.this,
        "UDP Error: "+ e.getMessage(),
        Toast.LENGTH_LONG).show();
}
```

154