P82 Mobile Application Development - Android

LogCat: Debug tool

♦ The Class is used with static Log methods

Ex: Log.v ("a_tag", "a message");

- v is the priority level (detail on next page)
- a_tag is the label
- a message message displayed in LogCat
- ◆Before the sys.out() does not work. Currently it works with the tag "I/System.out"

LogCat: Debug tool

- LogCat: Log in which entries of several priority levels are logged
 - v: Verbose (less priority)
 - d: Debug
 - i: Info
 - w: Warning
 - e: Error (Highest priority)
- Be careful that LogCat has focus on the project you want to debug

Manifest / Gradle

- Since Android Studio, Ant (build engine) has been replaced by Gradle.
- Manifest: A project configuration file to tell the system how to run your application.
- Build.gradle: second part for project configuration. Specifies the versions and dependencies.

AndroidManifest.xml

- The name of the application and the package
- The necessary permissions to use this application
- The identification of the main activity (the MAIN)
- The list of other activities of the application
- The list of services
- The list of receivers of intent (broadcast receiver)

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</p>
package="fr.ifl.myapplication" >
    <application
         android:allowBackup="true"
         android:icon="@mipmap/ic launcher"
         android:label="@string/app name"
         android:theme="@style/AppTheme" >
         <activity
              android:name=".MainActivity"
              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>
```

Build.gradle

- The version of the sdk used (target), as well as the minimum supported version
- The compilation version
- External libraries required by our application (or dependencies)

Link: http://tools.android.com/tech-docs/new-build-system/user-guide we could do a course that the topic alone...

Build.gradle

```
apply plugin: 'com.android.application'
android {
  compileSdkVersion 22
  buildToolsVersion "21.1.2"
  defaultConfig {
    applicationId "fr.jfl.myapplication"
    minSdkVersion 10
    targetSdkVersion 22
    versionCode 1
    versionName "1.0"
  buildTypes {
    release {
       minifyEnabled false
       proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rules.pro'
dependencies {
  compile fileTree(dir: 'libs', include: ['*.jar'])
  compile 'com.android.support:appcompat-v7:22.1.1'
```