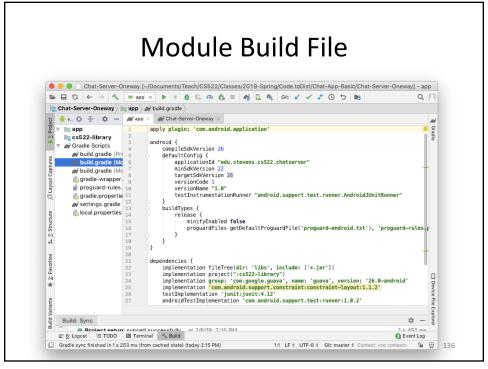


```
Project Build File
● ● ■ Chat-Server-Oneway [~/Documents/Teach/CS522/Classes/2019-Spring/Code.toDist/Chat-App-Basic/Chat-Server-Oneway] - Ch...
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     ∯ ர.. ⊕ 😤 💠 — 🔊 app × 🔊 Chat-Server-Oneway 🤇
                                                                                                                                                                                                                                                                                                                                                                                                           1 s 451 ms
                               Project setup: synced successfully at 2/6/19, 2:15 PM
1:1 LF + UTF-8 + Git: master + Context: <no c
```



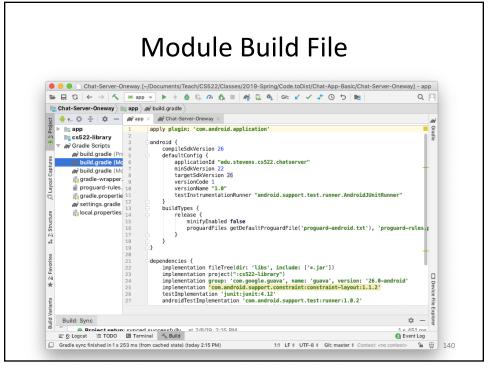
SDK Versions

- compiledSdkVersion
 - API version for compiler
- buildToolsVersion
 - Version of SDK (≥ compiledSdkVersion)
- targetSdkVersion
 - API version at runtime (≤ compiledSdkVersion)
 - Use new API without behavior changes in existing
- minSdkVersion
 - Provide backward compatibility (≤ targetSdkVersion)

Example: Printing API

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Parallel Activity Pattern



Module Build File

- · Default config
 - Overrides settings in application manifest
 - Application id
- Build types
- Product flavors
- Dependencies

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Build Types

```
buildTypes {
   release {
      minifyEnabled false
      proguardFiles
          getDefaultProguardFile('proguard-android.txt'),
          'proguard-rules.pro'
   }
   debug {
      debuggable true
   }
}
```

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Product Flavors

```
productFlavors {
   demo {
      applicationId "com.buildsystemexample.app.demo"
      versionName "1.0-demo"
   }
   full {
      applicationId "com.buildsystemexample.app.full"
      versionName "1.0-full"
   }
}
```

Product Flavors

```
productFlavors {
    pro {
        applicationId = "com.example.my.pkg.pro"
    }
    free {
        applicationId = "com.example.my.pkg.free"
    }
}
buildTypes {
    debug {
        applicationIdSuffix ".debug"
    }
}

Package name must still be specified in manifest file e.g. for R file package="com.example.app" 144
```

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Module Build File: Dependencies

 Local module implementation project(":lib")

Remote binary dependency (Maven)
 implementation
 'com.android.support:appcompat-v7:19.0.1'

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