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# Overview

ConnectU app is … This is Dev notes…

SigninActivity/activity\_signin is the first activity – it checks to see if you are signed in. If yes, proceeds to MainActivity/activity\_main which then presents the welcome and does behind the scene database activity we did in lab 6. If not signed in, then ConnectU app will present a google login screen. If using IIT email, it will login via IIT portal. Note that this google sign in requires google-service plugin as part of the build and does requires corresponding API key. Once login in, your device will remember who you are and automatically log you in next time. ToDo – need to implement general logout.

LoginActivity/activity\_login, no longer used, was replaced by SigninActivity/activity\_signin. ToDo – eventually remove, it’s there for reference in case SignIn barfs.

Both MapActivity and RegisterActivity are empty java class. However, using the same google account, API key for google map was generated and is noted in the comments in the MapActivity.java file. ToDo – make corresponding activity file and code. Use API key as noted.

Subdir DB is for database handler stuff and has three files: SqlHelper for POJO Book, and EmployeeDBHandler, EmployeeOperations for POJO Employee. Currently, SqlHelper/Book is used as a part of MainActivity. Employee\* stuff builds clean but appears to have more useful functionality. This show how easy it is to use POJO with these database handlers. ToDo – merge functionality and replace/add with actual ConnectU POJOs

Subdir Model is for Data and POJO stuff. Book/Employee was explained previously. User and Car was built from the Phase 1 UML diagrams with getter/setters and default toString(). Also from UML, classes RequestRide, Ride, and Schedule was added but is currently empty. ToDo – fix RequestRide, Ride, and Schedule.

As noted in snapshot below – function HandleSignInResult() in SignInActivity intents to MainActivity upon successful signin. I was looking at experimenting with files Tab\* and \*\_tab\* for tab layouts – to see how it works, make one line comment/uncomment as shown. ToDo – work with team to integrate flow of activities being displayed and if this is good approach to do.

MainActivity and TabLayoutActivity both have toolbar options (three vertical dots). ToDo – add menu items as needed.

The snapshots are shown Section 2 and the subsequent sections after Section 2, shows both xml and java code files used for this project.

# Snapshots

|  |
| --- |
| Figure Project Layout |

# AndroidManifest.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.mamccartney.connectu"**>  
  
 *<!-- To auto-complete the email text field in the login form with the user's emails -->* <**uses-permission android:name="android.permission.GET\_ACCOUNTS"**/>  
 <**uses-permission android:name="android.permission.READ\_PROFILE"**/>  
 <**uses-permission android:name="android.permission.READ\_CONTACTS"**/>  
  
 <**application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/AppTheme"**>  
 *<!--<activity android:name=".LoginActivity"-->* <**activity android:name=".SignInActivity"  
 android:theme="@style/AppTheme.NoActionBar"  
 android:label="@string/app\_name"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"**/>  
  
 <**category android:name="android.intent.category.LAUNCHER"**/>  
 </**intent-filter**>  
 </**activity**>  
 <**activity  
 android:name=".MainActivity"  
 android:theme="@style/AppTheme.NoActionBar"  
 android:label="@string/name\_main\_activity"**>  
 </**activity**>  
 <**activity  
 android:name=".TabLayoutActivity"  
 android:theme="@style/AppTheme.NoActionBar"  
 android:label="@string/name\_tab\_layout\_activity"**>  
 </**activity**>  
 </**application**>  
  
</**manifest**>

# MainActivity.java

# SqlHelper.java

# Book.java

# activity\_main.xml

# strings.xml