

TASK GUIDE (B3.05)

A. Objectives.

Student will start to design the layout of list, layout of dialog, layout of match log, and layout of footer fragment.

B. Requirements.

Hardware:

- 2 GB RAM minimum, 8 GB RAM recommended
- 2 GB of available disk space minimum, 4 GB Recommended (500 MB for IDE + 1.5 GB for Android SDK and emulator system image)
- 1280 x 800 minimum screen resolution
- Intel processor with support for Intel VT-x, Intel EM64T (Intel 64), and Execute Disable (XD) Bit functionality

Software:

- Microsoft Windows 7/8/10 (32-bit or 64-bit)
- JDK 8
- Android Studio IDE (Minimum 3.2) with AndroidX library.

C. Resources.

Documents:

- Guide

Test code:

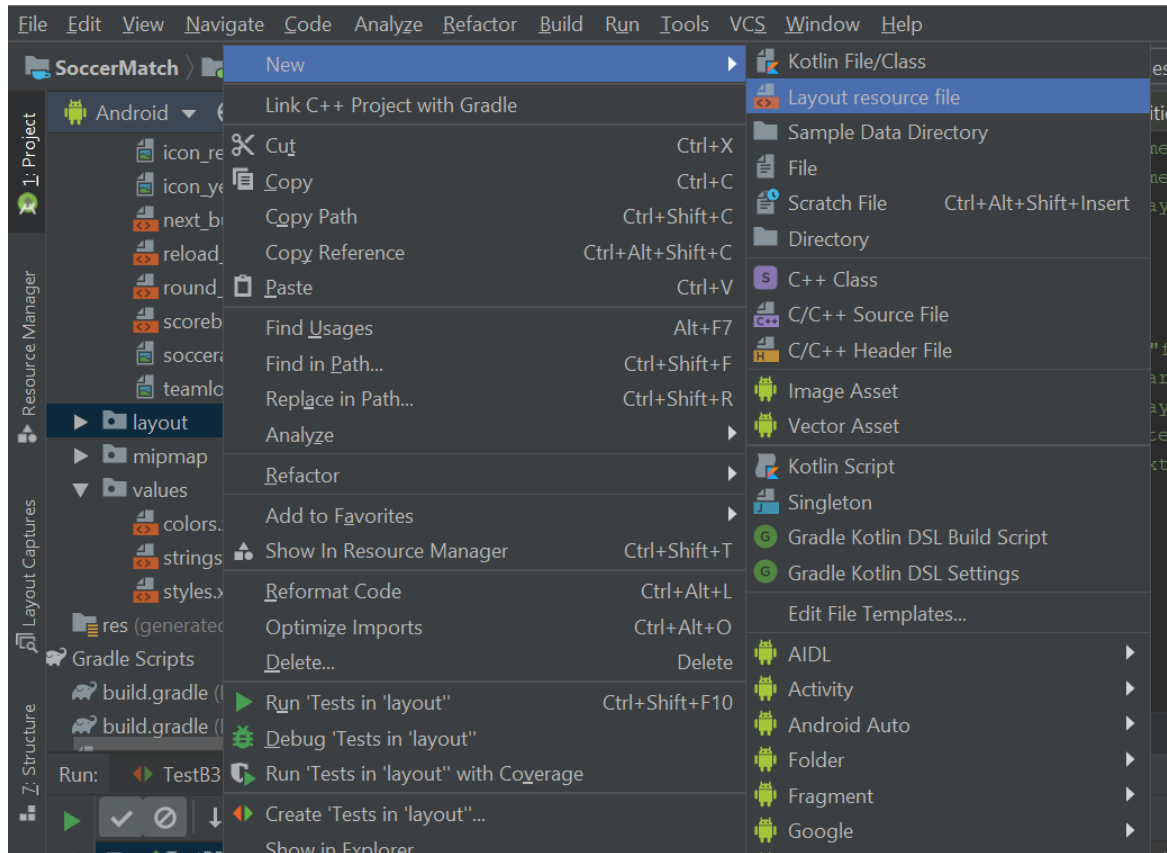
- TestB3MultiActivities051.java

D. Task Description.

Student start to create the third layout.

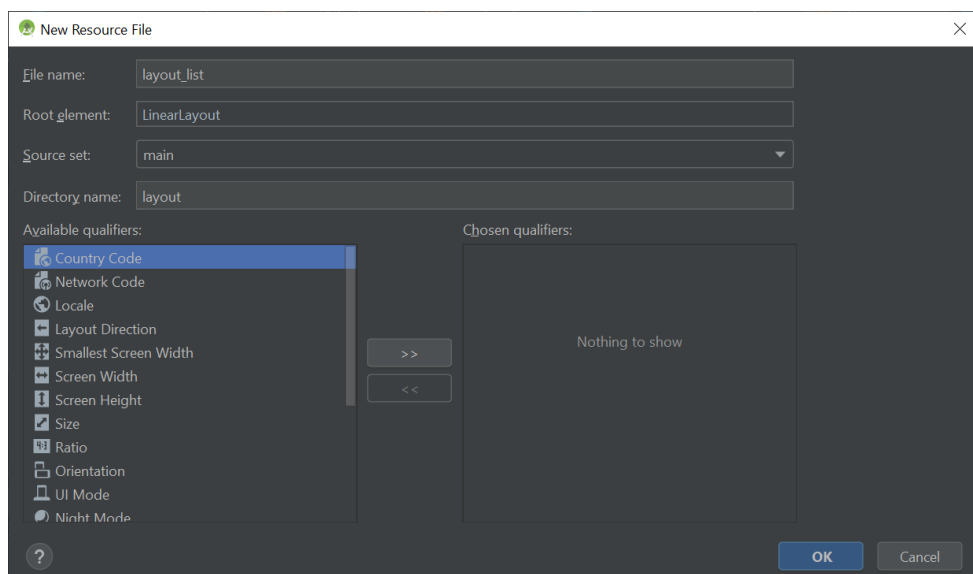
E. Specification.

1. Make layout of list. Create a new layout resource with this way:



After a dialog opened, use this specification:

- File name : layout_list
- Root element : LinearLayout
- Source set : main
- Directory name : layout

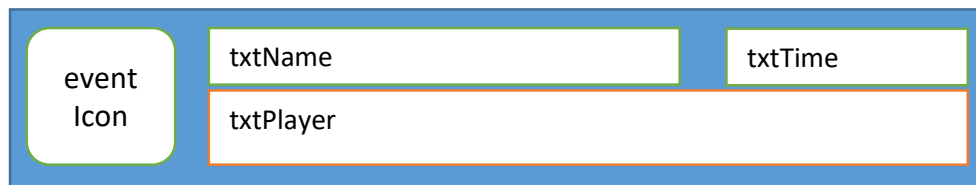


Then click OK.

2. Open “layout_list.xml” in layout resource folder and set orientation of LinearLayout “vertical”.
3. Add a TextView with this specification:
 - Id : listItem
 - padding : 2dp
 - layout_width : fill_parent
 - layout_height : wrap_content
 - text : <empty>
4. Make layout of dialog. Create a new layout resource like before with this specification:
 - File name : layout_dialog
 - Root element : LinearLayout
 - Source set : main
 - Directory name : layout
5. Open “layout_dialog.xml” in layout resource folder and set orientation of LinearLayout “vertical”.
6. Add an EditText with this specification:
 - Id : playerName
 - layout_width : match_parent
 - layout_height : wrap_content
 - text : <empty>
7. Make layout of log. Create a new layout resource like before with this specification:
 - File name : layout_log
 - Root element : LinearLayout
 - Source set : main
 - Directory name : layout
8. Open “layout_log.xml” in layout resource folder and change LinearLayout to CardView layout with id = logItemRoot. Set the attributes of CardView by yourself, you can check the sample attributes in task 2 and task 3.
9. In this CardView layout, add these widgets:

Type	Id	Additional value	Function
ImageView	eventIcon	- scaleType: fitCenter - adjustViewBounds: true	To show the image represent to the event showed
TextView	txtName	- Text:<empty>	To show the time of event
TextView	txtTime	- Text:<empty>	To show the event name
TextView	txtPlayer	- Text:<empty>	To show the player name

You can modify the style and the layout arrangement by yourself to improve the UI design. Example of layout arrangement:



10. Make layout of fragment footer. Create a new layout resource like before with this specification:

- File name : fragment_footer
- Root element : LinearLayout
- Source set : main
- Directory name : layout

11. Open “fragment_footer.xml” in layout resource folder set the LinearLayout orientation to “vertical” and set id = footerLayout.

12. Add a CardView in the “footerlayout” and set CardView id = playCard. Set the attributes of CardView by yourself, you can check the sample attributes in task 2 and task 3.

13. In this CardView layout, add these widgets:

Type	Id	Additional value	Function
ImageView	playImg	- src: drawable/socceranim - layout_margin: 8dp	To show the socceranim image
TextView	footerTxt	- Text: “Soccer Last News:” - Textsize: 7pt	To show a text
TextView	newsTxt	- Text:<empty> - singleLine: false	To show last news

You can modify the style and the layout arrangement by yourself to improve the UI design. Example of layout arrangement:



F. Testing.

1. Copy “TestB3MultiActivities051.java” file to “org.aplas.soccermatch (test)” folder.

2. Right click on the “TestB3MultiActivities051.java” file then choose Run. It may take long time to execute.
3. Get the result of your task. If passed you will get green check like below. If the test failed, you will get orange check get the messages and you must check your work again.

✓ TestB3MultiActivities051 (org.aplas.s	16 s 509ms	"C:\Program Files\Android\Android Studio\jre\bin\java.exe" ...
✓ check_01_Layout_List	13 s 863 ms	[Robolectric] org.aplas.soccermatch.TestB3MultiActivities051.check_01
✓ check_02_Layout_Dialog	1 s 16 ms	Called loadFromPath(/system/framework/framework-res.apk, true); mode=
✓ check_03_Fragment_Footer	791ms	[Robolectric] org.aplas.soccermatch.TestB3MultiActivities051.check_02
✓ check_03_Layout_Log	839ms	[Robolectric] org.aplas.soccermatch.TestB3MultiActivities051.check_03
		[Robolectric] org.aplas.soccermatch.TestB3MultiActivities051.check_03

You have to try until get all green checkes and continue to the next task.