# TASK GUIDE (B3.02)

### A. Objectives.

Student will start to design the Main layout as first layout that contains CardView, ListView, ImageButton, TextView, EditText, and Button.

### 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:

• TestB3MultiActivities021.java

### D. Task Description.

Student start to create the first layout.

# E. Specification.

- 1. Open "activity\_main.xml" in layout resource folder. Change the root layout become "LinearLayout" and give id "mainLayout" and orientation "vertical".
- 2. Create a CardView to put title TextView with this code.

Add a TextView in the CardView, with id = "mainTitleTxt" and text get from the "app\_title" string resource that contains string "APLAS SOCCER BOARD".

Picture below as example of the result with using CardView.

# **APLAS SOCCER BOARD**

3. Create a new CardView to put some widgets for **Home Team** data. *You can setup* your own CardView with your own Id, color, and other styling information.

Inside this home Team CardView, put some these necessary widgets:

Type	Id	Additional value	Function
TextView	homeLabel	- Text: "Home Team"	Show as CardView title for Home Team
EditText	homeTeam	<ul><li>src: drawable/teamlogo</li><li>scaleType: fitCenter</li><li>adjustViewBounds: true</li></ul>	To input the name of Home Team
ImageButton	homeImage	- Text: <empty> - Hint: "Enter home team name"</empty>	To select and show the logo of Home Team
TextView	homePlayerNumber	- Text: "0 player(s)"	Show the number of home players in ListView
ImageButton	addHomePlayer	- src: drawable/icon_add_button - scaleType: fitCenter	To show a dialog to input a new home player's name

ListView	homePlayer	- dividarhaidht— i dh	To show the list of home player's name.
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You can modify the style and the layout arrangement by yourself to improve the UI design. This is the sample of result after get the styling touch.

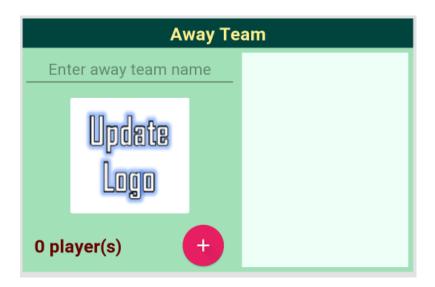


4. Create a new CardView to put some widgets for **Away Team** data. *You can setup* your own CardView with your own Id, color, and other styling information.

Inside this home Team CardView, put some these necessary widgets:

Type	Id	Additional value	Function
TextView	awayLabel	- Text: "Away Team"	Show as CardView title for Away Team
EditText	awayTeam	<ul><li>src: drawable/teamlogo</li><li>scaleType: fitCenter</li><li>adjustViewBounds: true</li></ul>	To input the name of Away Team
ImageButton	awaylmage	- Text: <empty> - Hint: "Enter home team name"</empty>	To select and show the logo of Away Team
TextView	awayPlayerNumber	- Text: "0 player(s)"	Show the number of away players in ListView
ImageButton	addAwayPlayer	<ul><li>src: drawable/icon_add_button</li><li>scaleType: fitCenter</li></ul>	To show a dialog to input a new away player's name
ListView	awayPlayer	- dividerHeight="1dp"	To show the list of away player's name.

You can modify the style and the layout arrangement by yourself to improve the UI design. This is the sample of result after get the styling touch.

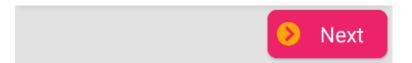


5. Add a Button at the bottom of layout with this specification:

Type	Id	Additional value	Function
Button	startBtn	- Text: "Next"	To open the next activity and start the match.

You can modify the style and the layout arrangement by yourself to improve the UI design. For icon you can use from drawable "icon\_next".

This is the sample of result after get the styling touch.



#### F. Testing.

- 1. Copy "TestB3MultiActivities021.java" file to "org.aplas.soccermatch (test)" folder.
- 2. Right click on the "TestB3MultiActivities021.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.

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

## G. Result Sample.

You can modify the style and the layout arrangement of the Main activity by yourself to improve the UI design. This is the sample of result after get the styling touch.

