



# Programmazione di sistemi mobili e tablet

## Android Development

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# TODAY'S ROADMAP

Let us take the previous exercise.

We want to create an Android Project that allows us to interact with a Database:

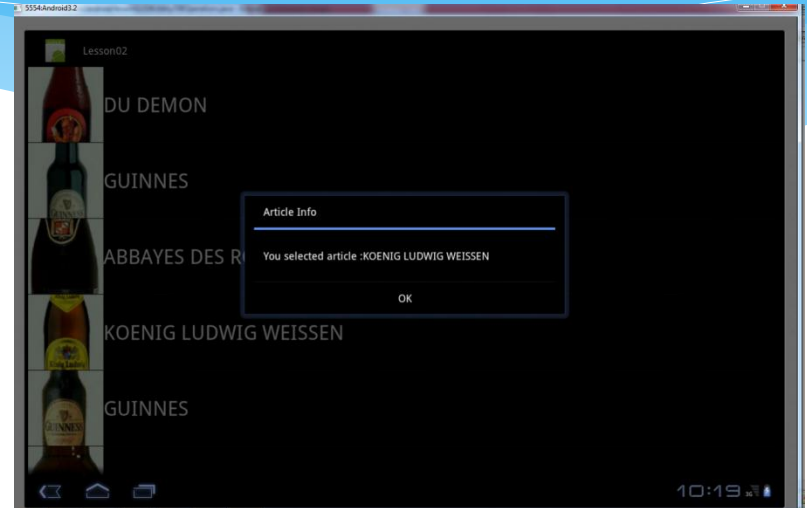
- Retrieve data from a DB
- Add data into the DB
- Query the DB

Our application **MUST** have a menu entry that allows us (by clickin' it) to start a new activity, in order to insert the needed data into the DB.

Our application has to catch DB exceptions, showing them in Alert dialogs.

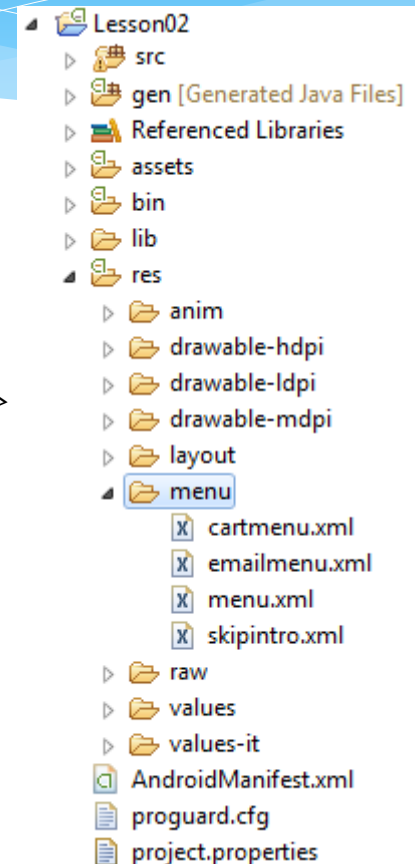
# GUIDELINE

1. Define our activity Layout (Listview)
2. Define our RowLayout
3. Create our ListAdapter
4. Create our Menu Layout
5. Fill the DB with some items (Complex items images, text, int,...)
6. Fill the list with the DB objects
7. By clicking the list layout row, a new Activity showing the Object must be shown
8. By selecting one menu item, a new activity that allows us to add items into the DB has to be shown
9. Run & test the application



# MENU LAYOUT

```
<?xml version="1.0" encoding="utf-8"?>
<menu
xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:id="@+id/refresh_icon"
        android:icon="@drawable/refresh"
        android:showAsAction="ifRoom" android:visible="false" />
    <item android:id="@+id/cart_icon"
        android:icon="@drawable/truckicon"
        android:showAsAction="ifRoom" />
    <item android:id="@+id/menu_search"
        android:icon="@android:drawable/ic_menu_search"
        android:showAsAction="ifRoom" />
</menu>
```



# EXTRA SLIDE 😊

1. Add a delete button to the RowLayout
2. Clicking it, provide a delete function that deletes the entry both from the list and on db
3. Run & test the application
4. Enjoy!