

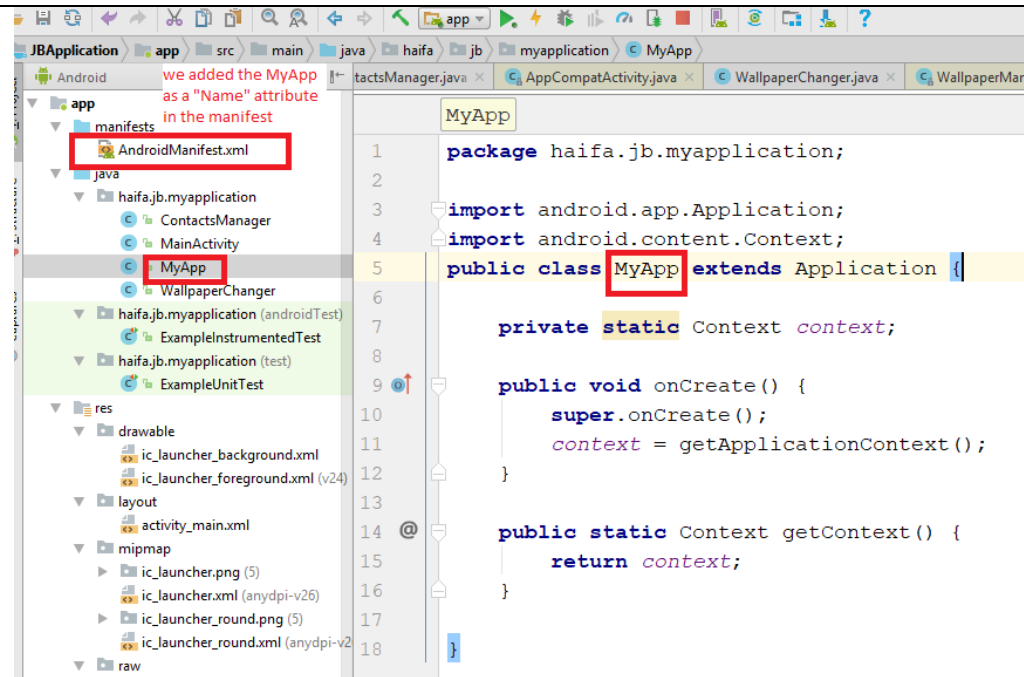
Manifest

Xml file

Contains the app config

TODO:

- Add user-permission
- Add to android:name the class that needs to get the context of the running application (in our case we created MyApp class)



MyApp

java file

a class that

extends Application

from:

android.app.Applica
tion

TODO:

- Override the "onCreate" function – that is called by default when the app is starting to run – and store the "context" in a property
- Create a static function that returns the context of the current application that is stored in a static property

WallpaperChanger

```
1 package haifa.jb.myapplication;
2
3
4 import android.app.WallpaperManager;
5
6 public class WallpaperChanger {
7
8
9     public static void changeWallpaper() {
10
11         WallpaperManager wallpaperManager =
12             WallpaperManager.getInstance(MyApp.getContext());
13
14         // create the manager that you need in your app
15
16     }
17 }
```

this part is added to
any manager class that
we will create -
every time that we
want to change
/access the user's
phone
we need the current
app context

Any class

This class will handle the logic to
the action that needs permission

activity_main.xml × MainActivity.java × ContactsManager.java × AppCompatActivity.java ×

LinearLayout Button

```
1 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
2     android:layout_width="match_parent"
3     android:layout_height="match_parent"
4     android:orientation="vertical"
5     android:padding="16dp">
6
7     <Button
8         android:layout_width="match_parent"
9         android:layout_height="wrap_content"
10        android:textSize="20sp"
11        android:textAllCaps="false"
12        android:text="Show User Contacts"
13        android:onClick="buttonContacts_onClick" />
14
15    <TextView
16        android:layout_width="wrap_content"
17        android:layout_height="wrap_content"
18        android:id="@+id/textViewContacts"
19        android:textSize="20sp" />
20
21 </LinearLayout>
```

add a user interface to enable calling the function

Activity xml

MainActivity onRequestPermissionsResult()

```
31 // 4. User can revoke given permission at any time by:
32 // App Info -> Permissions -> Revoke specific permission on presented li.
33
34 public class MainActivity extends AppCompatActivity {
35
36     private TextView textViewContacts;
37
38     protected void onCreate(Bundle savedInstanceState) {
39         super.onCreate(savedInstanceState);
40         setContentView(R.layout.activity_main);
41         textViewContacts = (TextView) findViewById(R.id.textViewContacts);
42     }
43
44     public void buttonContacts_onClick(View view) {
45         showContacts();
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```

Activity class

Here we:
Call the manager that uses
permissions

