

School of Information Technology and Engineering Digital Assignment - II, DECEMBER 2021 B.Tech., Fall-2021-2022

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COURSE CODE	ITE1016
COURSE NAME	MOBILE APPLICATION DEVELOPMENT
SLOT	A1+TA1
FACULTY	Prof. SRINIVASAN P

Implement the following features/ functionalities in your program and upload your own exercises with output. Output should be Unique.

1. Splash Screen

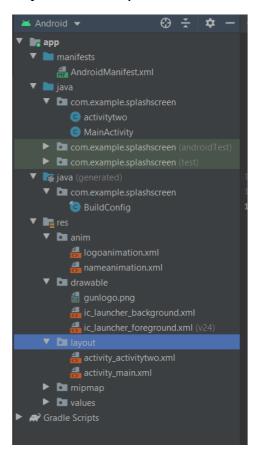
Output:

After 5 seconds moves to activity two. java:





Project Directory:



MainActivity.java

```
| MainActivity | Mai
```

Animation XML programs:

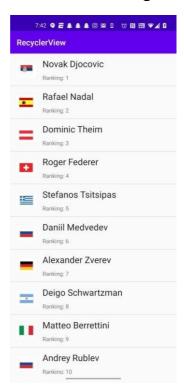
logoanimation.xml

nameanimation.xml

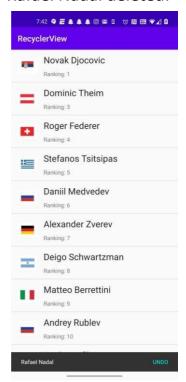
2. Swipe Functionality

Output:

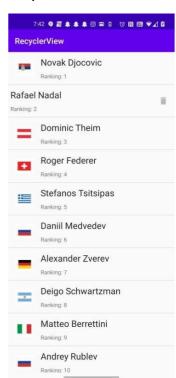
Initial screen using Recycler View:



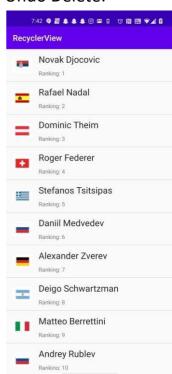
Rafael Nadal deleted:



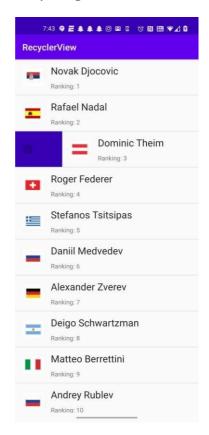
Swipe left to delete Rafael Nadal:



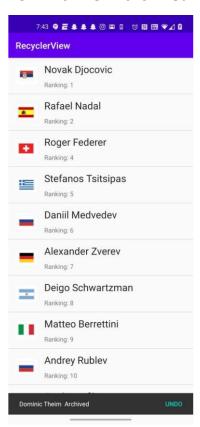
Undo Delete:



Swipe right to archive Dominic Theim:



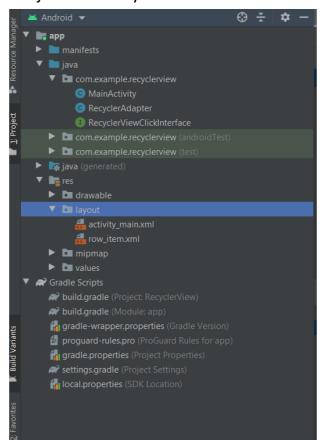
Dominic Theim archived:



Undo archive:



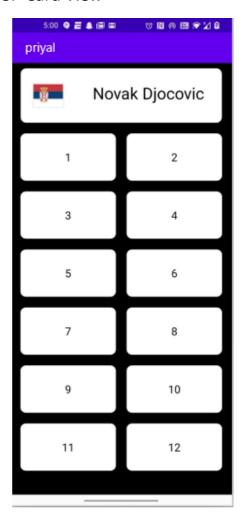
Project Directory:



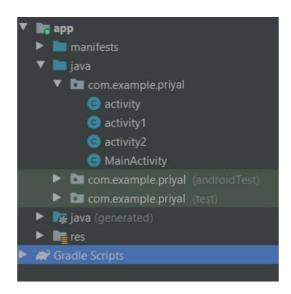
Swipe functionality code:

```
🍰 activity_main.xmt 🔻 🔞 MainActivity.java 💉 🐧 ItemTouchHelper.java 🗶 😭 build.gradie (app) 😤 🔞 RecyclerAdapter.java 🗶 🕦 RecyclerViewClickinterface.java × 😩 😭 row_item.xml
                                     swipeRefreshLayout = findViewById(R.id.swipeRefreshLayout);
swipeRefreshLayout.setOnRefreshListener(new SwipeRefreshLayout.OnRefreshListener() {
                          String deletedPlayer = null;
List<String> archivedPlayers = new ArrayList<>();
                                     public void onSwiped(@NonNull RecyclerView.ViewHolder viewHolder, int direction) {
    final int position = viewHolder.getAdapterPosition();
                                                 id onChildDraw(@MonMull Canvas c, @MonMull RecyclerView recyclerView, @MonMull RecyclerView.ViewHolder viewHolder, float dX, float dY, int actionState, boolean lecyclerViewSwipeDecorator.Builder(content MainActivity.this, c, recyclerView, viewHolder, dX, dY, actionState, isCurrentlyActive)
.addSwipeLeffActionIcon(ContextCompat.getColor(content MainActivity.this,R.color.colorPrimary))
.addSwipeLeffActionIcon(R.drawable.ic_baseline_delete_24)
.addSwipeReightBackgroundColor(ContextCompat.getColor(content MainActivity.this, R.color.colorPrimaryDark))
.addSwipeRightBackgroundColor(ContextCompat.getColor(content MainActivity.this, R.color.colorPrimaryDark))
```

3. Card View



Project Directory:



Activity_main.xml Top card (Novak Djokovic's card):

Card grid using Grid layout and Card View (1,2,3,4....cards):

```
    android:id="@+id/t2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="1"
    android:textAlignment="center"
    android:layout_gravity="center"
    android:textSize="20sp"
    android:textColor="#000000"
    android:paddingTop="30sp"
    android:paddingBottom="30sp"
    >

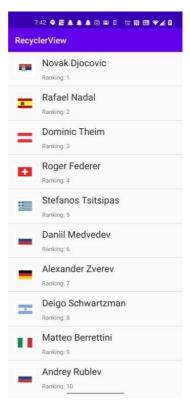
<pre
```

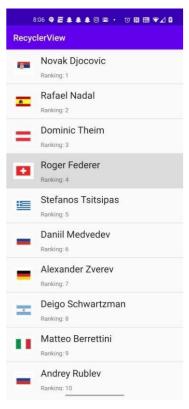
mainActivity.java

4. Recycler View

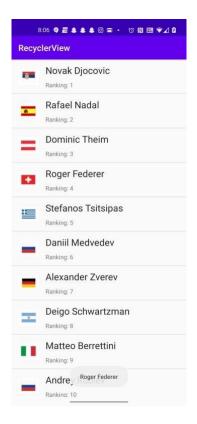
Output:

Onclick Listener implemented using interface:

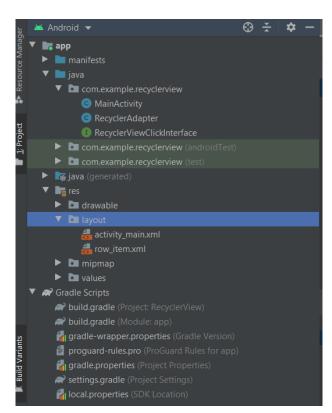




Toast of the item clicked:



Project Directory:



RecyclerAdapter.java

MainActivity.java

```
package com.example.recyclerview;

public class MainActivity extends AppCompatActivity implements RecyclerViewClickInterface{
    RecyclerView recyclerView;
    RecyclerAdapter recyclerAdapter;

List<String> playerList;
    public static List<String> imageViewList;
    SwipoRefreshLayout swipoRefreshLayout;
    SwipoRefreshLayout swipoRefreshLayout;
    Sverride

protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_moin);
    playerList = new ArrayList<O();
    imageViewList= new ArrayList<O();

recyclerView=findViewById(R.id.recyclerview);
    recyclerView.setAapter(necyclerview);
    recyclerView.setAapter(recyclerAdapter());
    recyclerView.setAapter(recyclerAdapter);
    Divider!temDecoration dividerItemDecoration;

playerList.add("Novak Djocovie");
    playerList.add("Novak Djocovie");
    playerList.add("Novak Djocovie");
    playerList.add("Novak Djocovie");
    playerList.add("Stefanos Isitsioss");
    playerList.add("Stefanos Isitsioss");
    playerList.add("Stefanos Isitsioss");
    playerList.add("Stefanos Isitsioss");
    playerList.add("Stefanos Isitsioss");
    playerList.add("Alexander Zwerew");
```

```
playerList.add("Deigo Schwartzman");
playerList.add("Matteo Berrettini");
playerList.add("Andrey Rubley");
playerList.add("Cael Monfils");
playerList.add("Cael Monfils");
playerList.add("Bould Goffin");
playerList.add("Bould Goffin");
playerList.add("Fabio Eggnini");
playerList.add("Fabio Fognini");
playerList.add("Karen Khachanov");
playerList.add("Karen Khachanov");
playerList.add("Grigor Dimitrov");
playerList.add("Grigor Dimitrov");
playerList.add("Cristian Garin");

imageViewList.add("image 1.PNG");
imageViewList.add("image 2.PNG");
imageViewList.add("image 3.PNG");
imageViewList.add("image 5.PNG");
imageViewList.add("image 5.PNG");
imageViewList.add("image 7.PNG");
imageViewList.add("image 9.PNG");
imageViewList.add("image 9.PNG");
imageViewList.add("image 1.PNG");
```

```
imageViewList.add("image_18.PNG");
imageViewList.add("image_19.PNG");
imageViewList.add("image_20.PNG");

swipeRefreshLayout = findViewById(R.id.swipeRefreshLayout);
swipeRefreshLayout.setOnRefreshListener(new SwipeRefreshLayout.OnRefreshListener() {
    @Override
    public void onRefresh() {
        playerList.add("Milos Raonic");
        playerList.add("Felix Auger-Aliassime");
        playerList.add("Felix Auger-Aliassime");
        playerList.add("Glohn Isner");
        playerList.add("Casper Ruud");

        recyclerAdapter.notifyDataSetChanged();
        swipeRefreshLayout.setRefreshing(false);

ItemTouchHelper itemTouchHelper = new ItemTouchHelper(simpleCallback);
    itemTouchHelper.attachToRecyclerView(recyclerView);

}
```

row_item.xml

