

(2020학년도 1학기)

# 오픈 소스 전문 프로젝트 01

## 6주차 퀴즈

팀번호 : 01-04

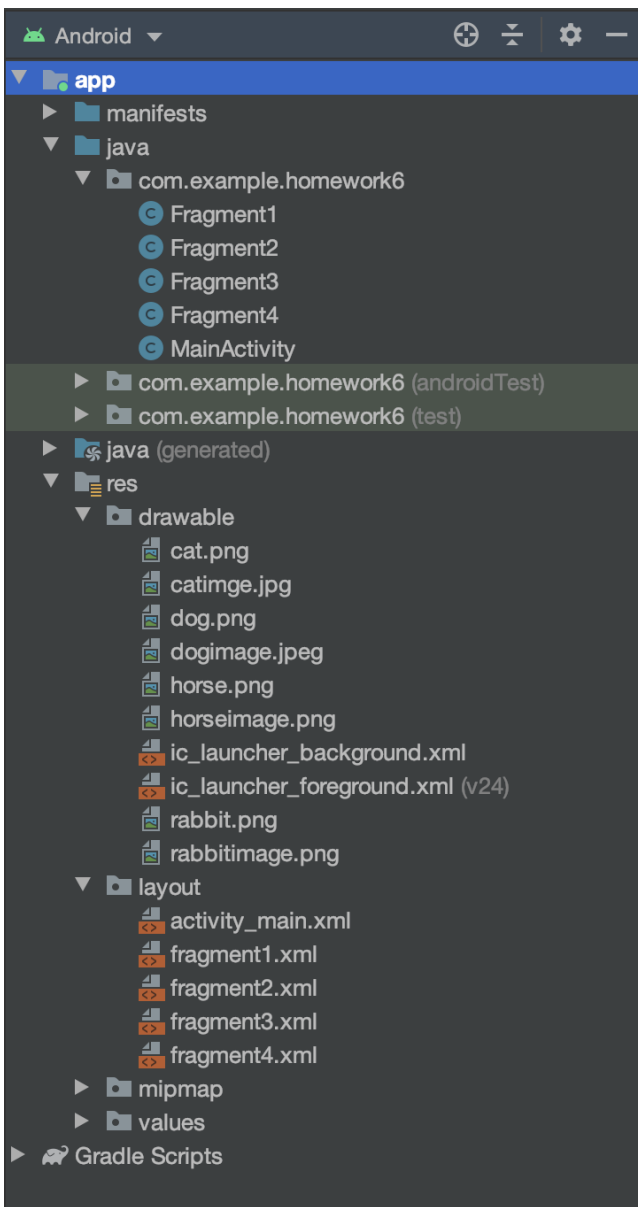
팀장 : 윤용진

팀원 : 윤상은, 김지혜, 권주현

동물 선택 앱을 작성하자 단, 탭에 이미지가 나오도록 하고 XML 파일을 인플레이트해서 사용하자



# 파일 구조



# 코드 activity\_main.xml

```
activity_main.xml x fragment1.xml x fragment2.xml x fragment3.xml x fragment4.xml x
1 <?xml version="1.0" encoding="utf-8"?>
2 <FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     tools:context=".MainActivity"
8     android:id="@+id/frame"
9 >
10
11     <LinearLayout
12         android:layout_width="match_parent"
13         android:layout_height="80dp">
14
15         <ImageButton
16             android:id="@+id/btn1"
17             android:layout_width="wrap_content"
18             android:layout_height="80dp"
19             android:layout_weight="1"
20             android:src="@drawable/dog"
21             android:scaleType="fitCenter" />
22
23         <ImageButton
24             android:id="@+id/btn2"
25             android:layout_width="wrap_content"
26             android:layout_height="80dp"
27             android:layout_weight="1"
28             android:src="@drawable/cat"
29             android:scaleType="fitCenter" />
30
31         <ImageButton
32             android:id="@+id/btn3"
33             android:layout_width="wrap_content"
34             android:layout_height="80dp"
35             android:layout_weight="1"
36             android:src="@drawable/rabbit"
37             android:scaleType="fitCenter" />
38
39         <ImageButton
40             android:id="@+id/btn4"
41             android:layout_width="wrap_content"
42             android:layout_height="80dp"
43             android:layout_weight="1"
44             android:src="@drawable/horse"
45             android:scaleType="fitCenter" />
46     </LinearLayout>
47 </FrameLayout>
```

# 코드 fragment1.xml

```
activity_main.xml × fragment1.xml × fragment2.xml × fragment3.xml × fragment4.xml ×  
1 <?xml version="1.0" encoding="utf-8"?>  
2 <androidx.constraintlayout.widget.ConstraintLayout  
3     xmlns:android="http://schemas.android.com/apk/res/android"  
4     xmlns:app="http://schemas.android.com/apk/res-auto"  
5     xmlns:tools="http://schemas.android.com/tools"  
6     android:layout_width="match_parent"  
7     android:layout_height="match_parent">  
8  
9     <ImageView  
10         android:id="@+id/imageView"  
11         android:layout_width="wrap_content"  
12         android:layout_height="wrap_content"  
13         app:layout_constraintBottom_toBottomOf="parent"  
14         app:layout_constraintStart_toStartOf="parent"  
15         app:layout_constraintTop_toTopOf="parent"  
16         app:layout_constraintVertical_bias="0.641"  
17         app:srcCompat="@drawable/dogimage" />  
18  
19 </androidx.constraintlayout.widget.ConstraintLayout>
```

# 코드 fragment2.xml

```
activity_main.xml × fragment1.xml × fragment2.xml × fragment3.xml × fragment4.xml ×  
1 <?xml version="1.0" encoding="utf-8"?>  
2 <androidx.constraintlayout.widget.ConstraintLayout  
3     xmlns:android="http://schemas.android.com/apk/res/android"  
4     xmlns:app="http://schemas.android.com/apk/res-auto"  
5     xmlns:tools="http://schemas.android.com/tools"  
6     android:layout_width="match_parent"  
7     android:layout_height="match_parent">  
8  
9     <ImageView  
10         android:id="@+id/imageView"  
11         android:layout_width="wrap_content"  
12         android:layout_height="wrap_content"  
13         app:layout_constraintBottom_toBottomOf="parent"  
14         app:layout_constraintStart_toStartOf="parent"  
15         app:layout_constraintTop_toTopOf="parent"  
16         app:layout_constraintVertical_bias="0.641"  
17         app:srcCompat="@drawable/catimage" />  
18  
19 </androidx.constraintlayout.widget.ConstraintLayout>
```

# 코드 fragment3.xml

```
activity_main.xml × fragment1.xml × fragment2.xml × fragment3.xml × fragment4.xml ×  
1 <?xml version="1.0" encoding="utf-8"?>  
2 <androidx.constraintlayout.widget.ConstraintLayout  
3     xmlns:android="http://schemas.android.com/apk/res/android"  
4     xmlns:app="http://schemas.android.com/apk/res-auto"  
5     xmlns:tools="http://schemas.android.com/tools"  
6     android:layout_width="match_parent"  
7     android:layout_height="match_parent">  
8  
9     <ImageView  
10         android:id="@+id/imageView"  
11         android:layout_width="wrap_content"  
12         android:layout_height="wrap_content"  
13         app:layout_constraintBottom_toBottomOf="parent"  
14         app:layout_constraintStart_toStartOf="parent"  
15         app:layout_constraintTop_toTopOf="parent"  
16         app:layout_constraintVertical_bias="0.641"  
17         app:srcCompat="@drawable/rabbitimage" />  
18  
19 </androidx.constraintlayout.widget.ConstraintLayout>
```

# 코드 fragment4.xml

```
activity_main.xml × fragment1.xml × fragment2.xml × fragment3.xml × fragment4.xml ×
1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout
3     xmlns:android="http://schemas.android.com/apk/res/android"
4     xmlns:app="http://schemas.android.com/apk/res-auto"
5     xmlns:tools="http://schemas.android.com/tools"
6     android:layout_width="match_parent"
7     android:layout_height="match_parent">
8
9     <ImageView
10         android:id="@+id/imageView"
11         android:layout_width="wrap_content"
12         android:layout_height="wrap_content"
13         app:layout_constraintBottom_toBottomOf="parent"
14         app:layout_constraintStart_toStartOf="parent"
15         app:layout_constraintTop_toTopOf="parent"
16         app:layout_constraintVertical_bias="0.641"
17         app:srcCompat="@drawable/horseimage" />
18
19 </androidx.constraintlayout.widget.ConstraintLayout>
```



# 코드 MainActivity.java

```
1 package com.example.homework6;
2
3 import ...
4
5
6
7
8
9
10 public class MainActivity extends AppCompatActivity {
11
12     ImageButton btn1, btn2, btn3, btn4;
13     @Override
14     protected void onCreate(Bundle savedInstanceState) {
15         super.onCreate(savedInstanceState);
16         setContentView(R.layout.activity_main);
17         setTitle("연습문제 6-7");
18
19         btn1=(ImageButton) findViewById(R.id.btn1);
20         btn2=(ImageButton) findViewById(R.id.btn2);
21         btn3=(ImageButton) findViewById(R.id.btn3);
22         btn4=(ImageButton) findViewById(R.id.btn4);
23
24         btn1.setOnClickListener(new View.OnClickListener() {
25             @Override
26             public void onClick(View view) {
27                 FragmentTransaction transaction= getSupportFragmentManager().beginTransaction();
28                 Fragment1 fragment1= new Fragment1();
29                 transaction.replace(R.id.frame, fragment1);
30                 transaction.commit();
31             }
32         });
33
34         btn2.setOnClickListener(new View.OnClickListener() {
35             @Override
36             public void onClick(View view) {
37                 FragmentTransaction transaction= getSupportFragmentManager().beginTransaction();
38                 Fragment2 fragment2= new Fragment2();
39                 transaction.replace(R.id.frame, fragment2);
40                 transaction.commit();
41             }
42         });
43
44         btn3.setOnClickListener(new View.OnClickListener() {
45             @Override
46             public void onClick(View view) {
47                 FragmentTransaction transaction= getSupportFragmentManager().beginTransaction();
48                 Fragment3 fragment3= new Fragment3();
49                 transaction.replace(R.id.frame, fragment3);
50                 transaction.commit();
51             }
52         });
53
54         btn4.setOnClickListener(new View.OnClickListener() {
55             @Override
56             public void onClick(View view) {
57                 FragmentTransaction transaction= getSupportFragmentManager().beginTransaction();
58                 Fragment4 fragment4= new Fragment4();
59                 transaction.replace(R.id.frame, fragment4);
60                 transaction.commit();
61             }
62         });
63     }
64 }
```

# 코드 Fragment1.java

```
MainActivity.java × Fragment1.java × Fragment2.java × Fragment3.java × Fragment4.java ×
1  package com.example.homework6;
2
3  import ...
11
12  public class Fragment1 extends Fragment {
13
14      public Fragment1(){
15
16      }
17
18      @Nullable
19      @Override
20  public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {
21      return inflater.inflate(R.layout.fragment1, container, attachToRoot: false);
22  }
23 }
```

# 코드 Fragment2.java

```
MainActivity.java × Fragment1.java × Fragment2.java × Fragment3.java × Fragment4.java ×
1 package com.example.homework6;
2
3 import ...
11
12 public class Fragment2 extends Fragment {
13
14     public Fragment2() {
15
16     }
17
18     @Nullable
19     @Override
20     public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {
21         return inflater.inflate(R.layout.fragment2, container, attachToRoot: false);
22     }
23
```

# 코드 Fragment3.java

```
MainActivity.java × Fragment1.java × Fragment2.java × Fragment3.java × Fragment4.java ×
1 package com.example.homework6;
2
3 import ...
4
11
12 public class Fragment3 extends Fragment {
13
14     public Fragment3() {
15
16     }
17
18     @Nullable
19     @Override
20     public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {
21         return inflater.inflate(R.layout.fragment3, container, attachToRoot: false);
22     }
23 }
```

# 코드 Fragment4.java

```
MainActivity.java × Fragment1.java × Fragment2.java × Fragment3.java × Fragment4.java ×
1 package com.example.homework6;
2
3 import ...
4
5
6
7
8
9
10
11
12 public class Fragment4 extends Fragment {
13
14     public Fragment4(){
15
16     }
17
18     @Nullable
19     @Override
20     public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {
21         return inflater.inflate(R.layout.fragment4, container, attachToRoot: false);
22     }
23 }
```

# AVD 캡처

