

MODUL 7

Menu dan Dialog



CAPAIAN PEMBELAJARAN

1. Mahasiswa dapat menggunakan menu dan Dialog.



KEBUTUHAN ALAT/BAHAN/SOFTWARE

1. Android Studio 3.4.
2. Handphone Android versi 7.0 (Nougat)
3. Kabel data USB.
4. Driver ADB.



DASAR TEORI

Komponen Navigasi.

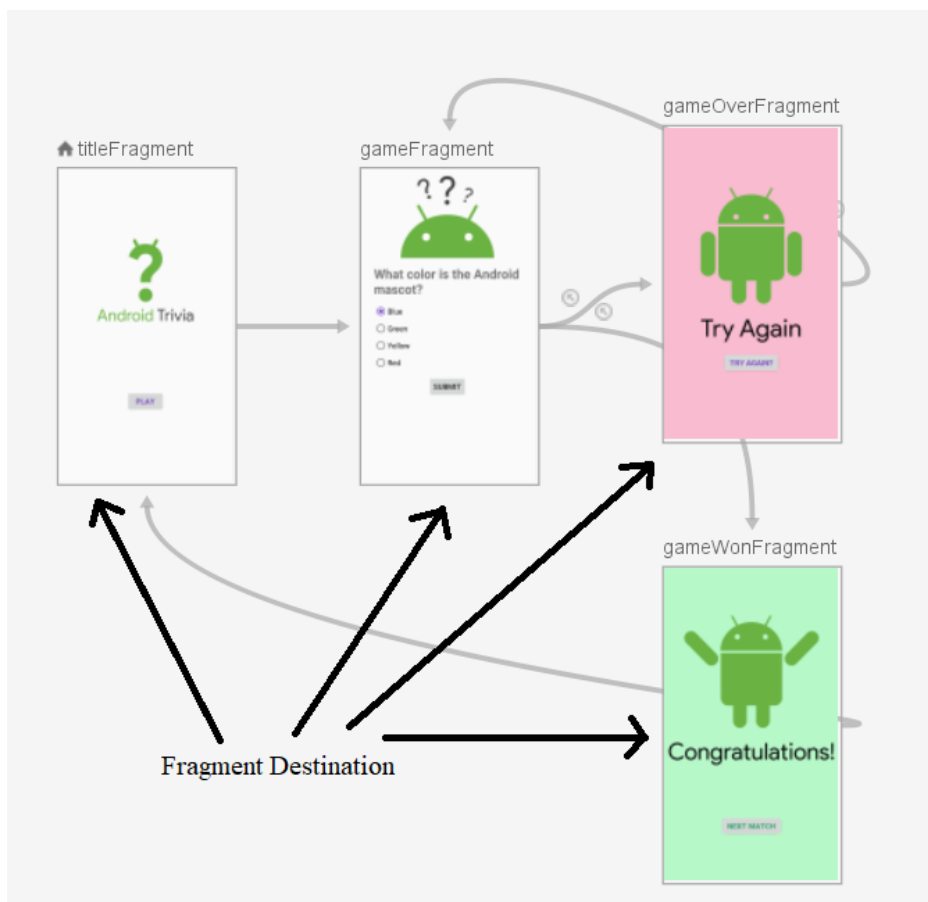
Navigation Graph (resource XML baru) adalah sumber daya yang berisi semua informasi terkait navigasi di satu lokasi terpusat, termasuk semua tempat di aplikasi, yang dikenal sebagai tujuan, dan kemungkinan jalur yang dapat dilalui pengguna melalui aplikasi.

NavHostFragment (Layout XML view) adalah widget khusus yang ditambahkan ke layout, yang menampilkan berbagai tujuan dari Navigation Graph. **NavController** (objek Kotlin / Java) adalah objek yang melacak posisi saat ini dalam Navigation Graph, yang mengatur pertukaran konten tujuan di NavHostFragment saat kita bergerak melalui Navigation Graph. Saat kita menavigasi, kita akan menggunakan objek NavController, memberi tahu ke mana kita ingin pergi atau jalur apa yang ingin kita ambil dalam Navigation Graph. NavController kemudian akan menunjukkan tujuan yang sesuai di NavHostFragment.

Destinasi Navigation Graph.

Komponen Navigasi memperkenalkan konsep destination. Destination adalah tempat apa pun yang dapat kita navigasi di aplikasi, biasanya sebuah fragment atau activity.

Navigation Graph adalah jenis sumber daya baru yang mendefinisikan semua jalur yang mungkin seorang pengguna dapat ambil melalui aplikasi. Ini menunjukkan secara visual semua tujuan yang dapat dicapai dari tujuan tertentu. Android Studio menampilkan grafik di Editor Navigasinya. Contoh Navigation Graph adalah sebagai berikut.



Mengeksplorasi Navigation Editor

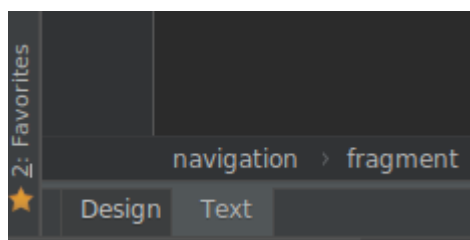
1. Buka res/navigation/mobile_navigation.xml
 2. Klik **Design** untuk menuju mode Design.
- Navigation graph menunjukkan destination yang ada.



Anatomi dari file navigation XML.

Semua perubahan yang dibuat di Editor Navigasi grafis mengubah file XML yang menyertainya, mirip dengan cara Editor Layout memodifikasi layout XML.

Klik tab **Text** :



Akan muncul file xml berikut:

```
<navigation
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/navigation"
app:startDestination="@id/titleFragment">
```

<!-- ...tags for fragments and activities here -->

```
</navigation>
```

catatan:

`<navigation>` adalah root node dari setiap navigation graph.

`<navigation>` terdiri satu atau lebih destination, direpresentasikan dengan elemen `<activity>` atau `<fragment>` .

`app:startDestination` adalah atribut yang menentukan destination yang dijalankan secara default ketika pengguna membuka app pertama kali.

Untuk sebuah fragment destination:

```
<fragment
    android:id="@+id/titleFragment"
    android:name=
        "com.example.android.navigation.TitleFragment"
    android:label="Intro"
    tools:layout="@layout/fragment_title">
    <action
        android:id="@+id/action_titleFragment_to_gameFragment"
        app:destination="@id/gameFragment" />
</fragment>
```

Catatan:

`android:id` mendefinisikan ID untuk fragmen yang dapat digunakan untuk referensi destination di tempat lain dalam XML ini dan kode kita.

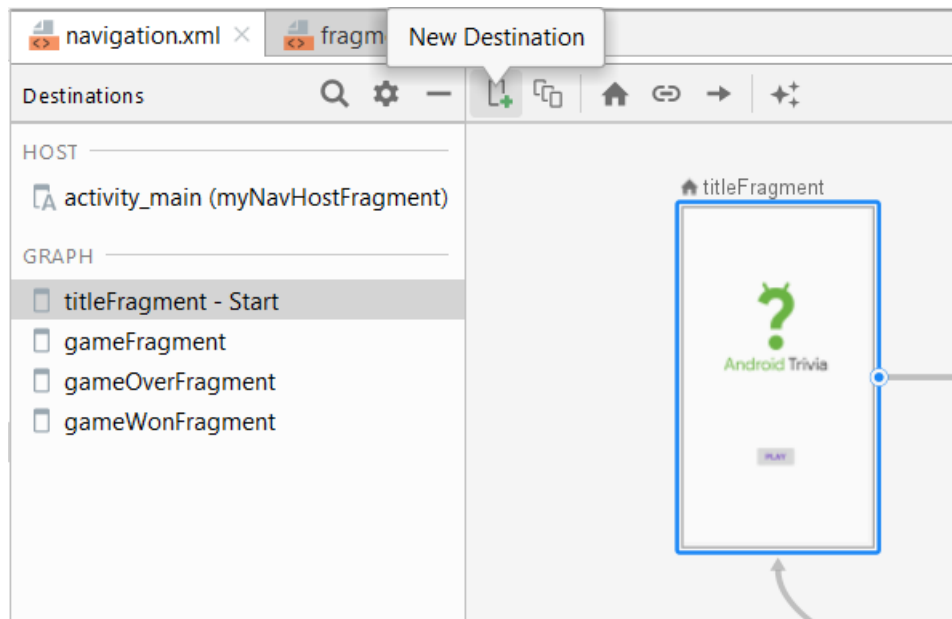
`android:name` mendeklarasikan nama kelas yang memenuhi syarat dari fragment untuk dipakai saat menavigasi ke destinasi tersebut.

`tools:layout` menentukan layout apa yang harus ditampilkan dalam editor grafis.

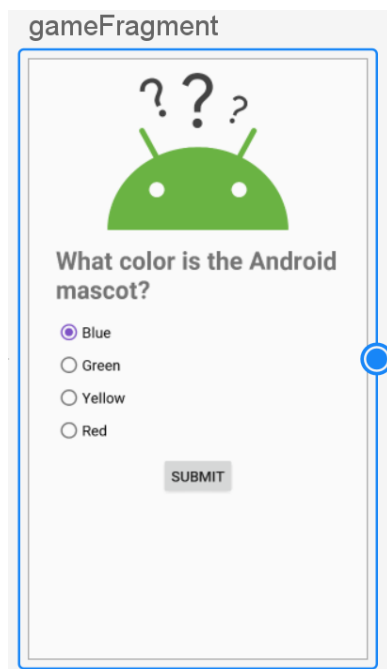
Menambahkan Destination ke Navigation Graph.

Aplikasi sampel dimulai dengan beberapa destination dalam grafik. Pada langkah ini, kita akan menambahkan destination baru! Kita harus menambahkan destination ke Navigation Graph sebelum dapat menavigasi ke sana.

1. Buka `res/navigation/navigation.xml`, dan klik tab **Design**.
2. Klik ikon **New Destination**, dan pilih "gameFragment"



Kita akan peroleh sebagai berikut.



Dengan file xml seperti berikut.

```
<fragment
    android:id="@+id/gameFragment"
    android:name="com.example.android.navigation.GameFragment"
    android:label="Game"
    tools:layout="@layout/fragment_game">
</fragment>
```

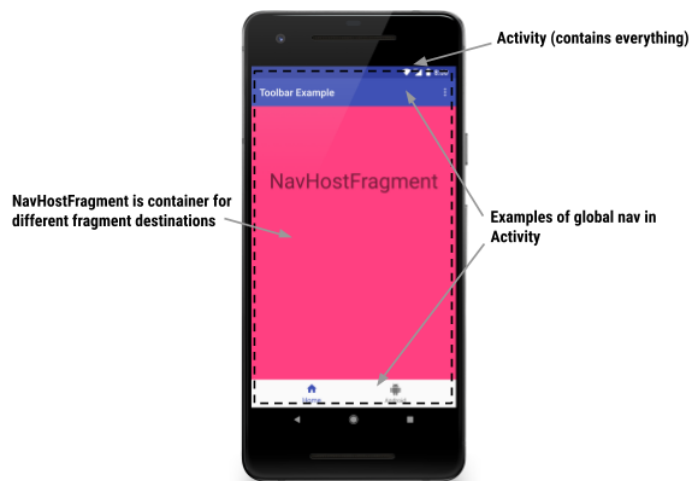
Menggunakan Navigation Graph untuk menavigasi.

Saat ini kita memiliki navigation graph yang luar biasa ini, tetapi kita sebenarnya tidak menggunakannya untuk menavigasi.

Activities dan Navigation

Komponen Navigasi mengikuti panduan yang dijabarkan dalam Prinsip Navigasi. Prinsip Navigasi merekomendasikan kita menggunakan aktivitas sebagai titik masuk untuk aplikasi kita. Aktivitas juga akan berisi navigasi global, seperti bottom nav. Sebagai perbandingan, fragment akan menjadi layout spesifik tujuan yang sebenarnya.

Agar semua ini berfungsi, kita perlu memodifikasi layout aktivitas kita untuk memuat widget khusus yang disebut NavHostFragment. NavHostFragment menukar destination fragment yang berbeda masuk dan keluar saat kita menavigasi navigation graph.



Layout sederhana yang mendukung navigasi mirip dengan gambar di atas terlihat seperti ini:

```
<LinearLayout
.../>
<androidx.appcompat.widget.Toolbar
.../>
<fragment
    android:id="@+id/myNavHostFragment"
    android:name=
        "androidx.navigation.fragment.NavHostFragment"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    app:defaultNavHost="true"
    app:navGraph="@navigation/navigation" />
<com.google.android.material.bottomnavigation.BottomNavigationView
.../>
```

</LinearLayout>

Catatan:

- Ini adalah layout for an activity, berisi navigation global, termasuk sebuah bottom nav dan a toolbar
- `android:name="androidx.navigation.fragment.NavHostFragment"` and `app:defaultNavHost="true"` menghubungkan back button sistem ke `NavHostFragment`
- `app:navGraph="@navigation/navigation"` mengaitkan `NavHostFragment` dengan navigation graph. Navigation graph ini menentukan semua destination pengguna dapat menavigasi ke, di fragment `NavHostFragment` ini.

NavController

Akhirnya, ketika pengguna melakukan sesuatu seperti mengklik tombol, kita perlu memicu perintah navigasi. Kelas khusus yang disebut `NavController` adalah apa yang memicu swap fragmen di `NavHostFragment`.

```
// Command untuk navigasi ke gameFragment_to_gameWonFragment  
findNavController()  
    .navigate(R.id.action_gameFragment_to_gameWonFragment)
```

Perhatikan bahwa kita memberikan destination ID atau action untuk menavigasi. Ini adalah ID yang ditentukan dalam navigation graph XML. Ini adalah contoh memberikan destination ID. `NavController` sangat powerfull karena ketika kita memanggil metode seperti `navigate()` atau `popBackStack()`, `NavController` menerjemahkan perintah-perintah ini ke dalam operasi framework yang sesuai berdasarkan jenis destination yang kita navigasikan ke atau dari. Misalnya, ketika kita memanggil `navigate()` dengan sebuah activity destination, `NavController` memanggil `startActivity()` atas nama kita. Ada beberapa cara untuk mendapatkan objek `NavController` yang terkait dengan `NavHostFragment`. Di Kotlin, disarankan untuk menggunakan salah satu fungsi ekstensi berikut, tergantung pada apakah akan memanggil perintah navigasi dari dalam sebuah fragment, activity atau view:

- [`Fragment.findNavController\(\)`](#)
- [`View.findNavController\(\)`](#)
- [`Activity.findNavController\(viewId: Int\)`](#)

NavController dikaitkan dengan NavHostFragment. Jadi, metode apa pun yang digunakan, kita harus yakin bahwa fragment, view, atau view ID adalah NavHostFragment itu sendiri, atau memiliki NavHostFragment sebagai induk. Kalau tidak, kita akan mendapatkan `IllegalStateException`.

Navigasi ke sebuah Destination dengan NavController

Kita akan bernavigasi menggunakan NavController dengan menghubungkan tombol `Navigate` ke `Destination` untuk menavigasi ke destination `action_gameFragment_to_gameWonFragment` (yang merupakan tujuan adalah `GameWonFragment`):

1. Buka `TittleFragment.kt`
2. Sambungkan `navigate_destination_button` dalam `onViewCreated()`

TittleFragment.kt

```
playButton.setOnClickListener { view : View ->
    view.findNavController().
        navigate(R.id.action_titleFragment_to_gameFragment)
}
```

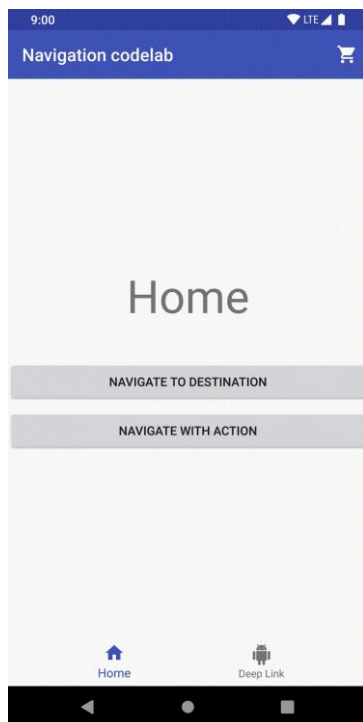
2. Jalankan app dan **Navigate To Destination** button. Button menavigasi ke `game_fragment` destination.

Kita juga dapat menggunakan metode `Navigation.createNavigateOnClickListener (@IdRes destId: int, bundle: Bundle)`. Metode ini akan membangun `OnClickListener` untuk menavigasi ke tujuan yang diberikan, dengan sekumpulan argumen untuk diteruskan ke tujuan. Kodenya sebagai berikut.

```
val button = view.findViewById<Button>(R.id.navigate_destination_button)
button?.setOnClickListener(
    Navigation.createNavigateOnClickListener(R.id.game_fragment, null)
)
```

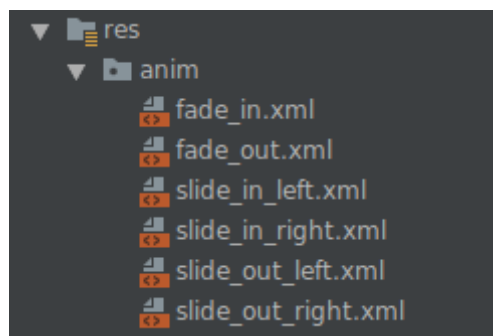
Mengubah transisi Navigation.

Setiap panggilan `navigate()` memiliki transisi standar yang tidak terlalu menarik yang terkait dengannya, seperti terlihat di bawah:



Transisi default, serta atribut lain yang terkait dengan panggilan, dapat diganti dengan menyertakan satu set `NavOptions`. `NavOptions` menggunakan pola Builder yang memungkinkan kita mengganti dan menetapkan hanya opsi yang dibutuhkan. Ada juga ktx DSL untuk `NavOptions`, yang akan digunakan.

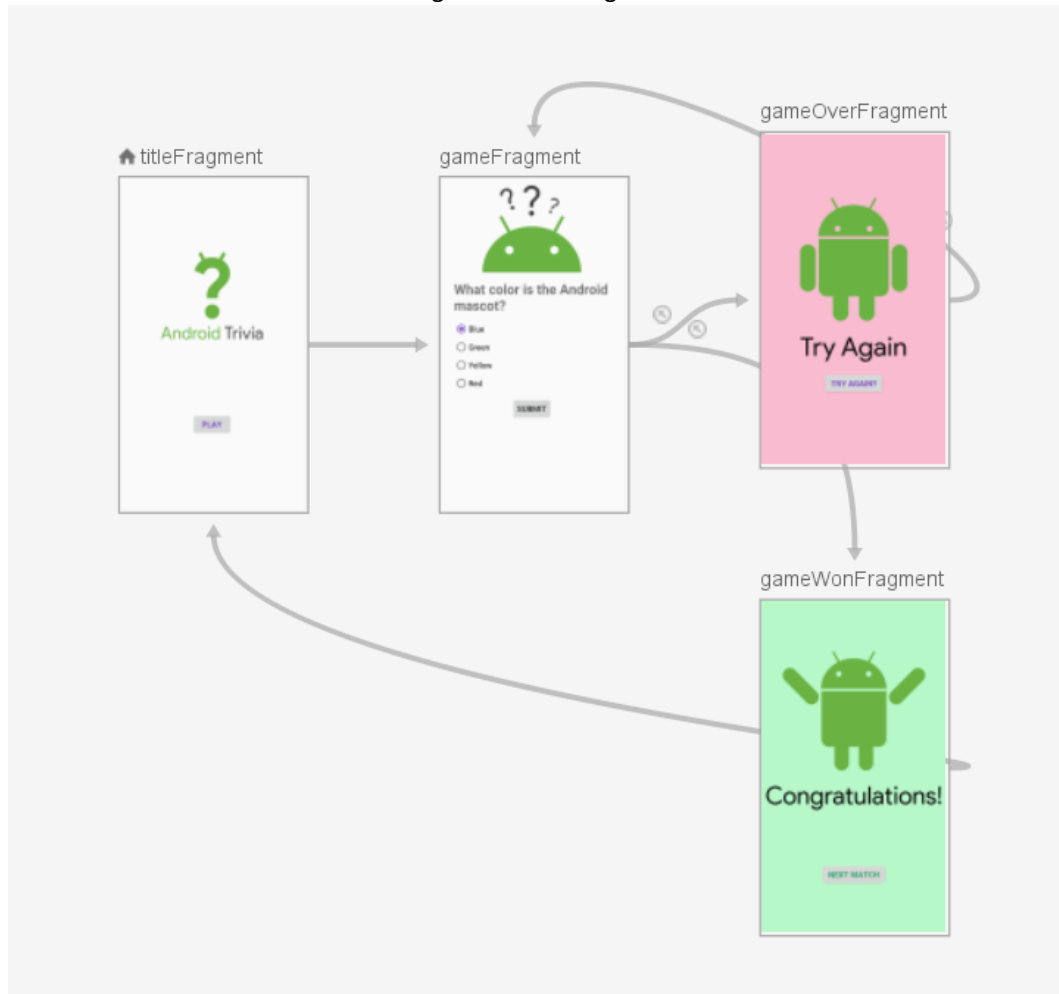
Untuk transisi animasi, kita dapat menentukan resource animation XML di folder resource anim dan kemudian menggunakan animation tersebut untuk transisi. Beberapa contoh termasuk dalam kode app:



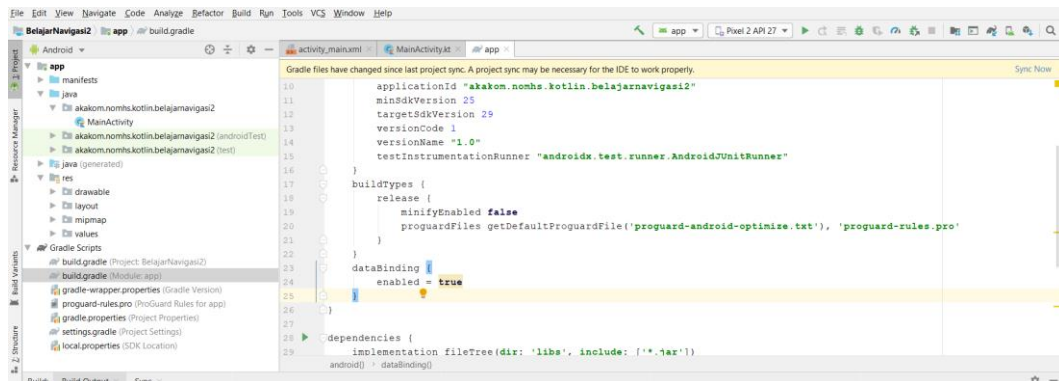


PRAKTIK

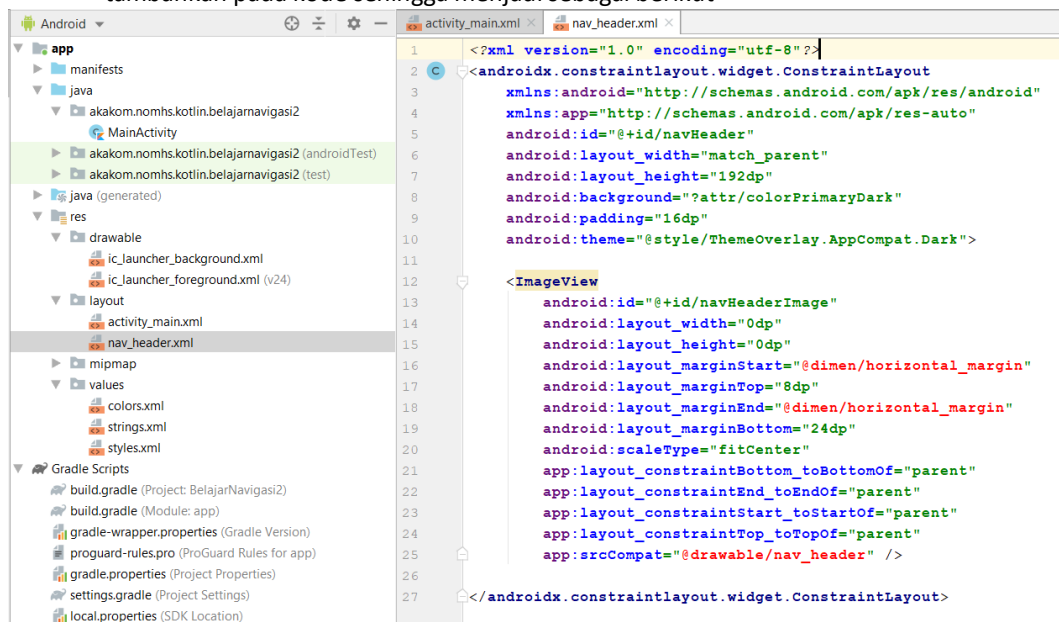
1. Kita akan membuat menu dengan desain sebagai berikut.



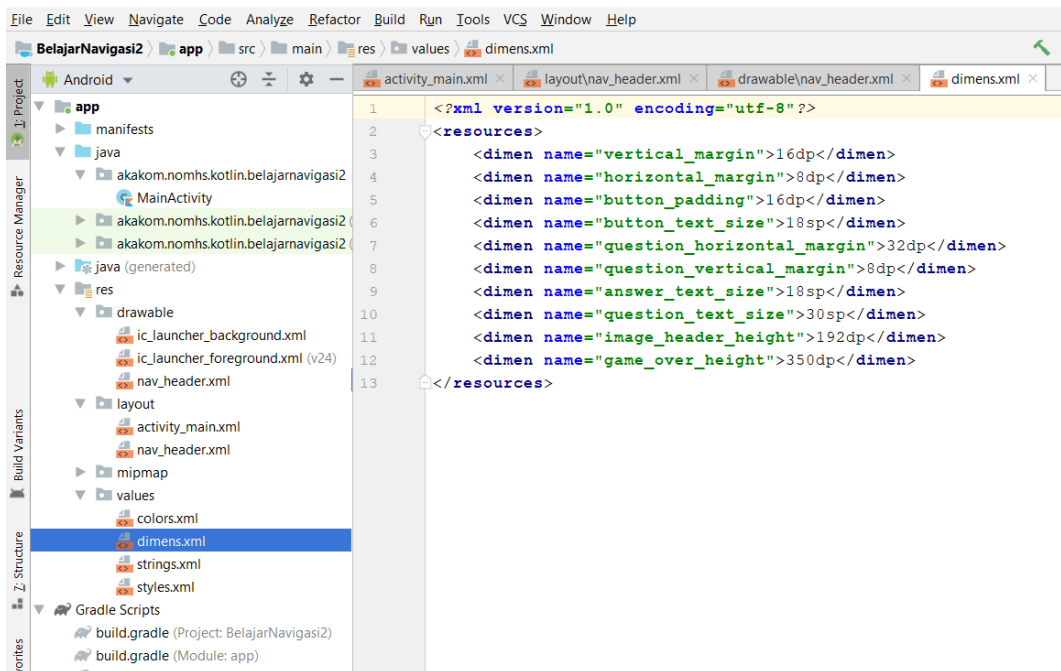
2. Buat project baru.
3. Tambahkan data binding enabled true pada build.gradle



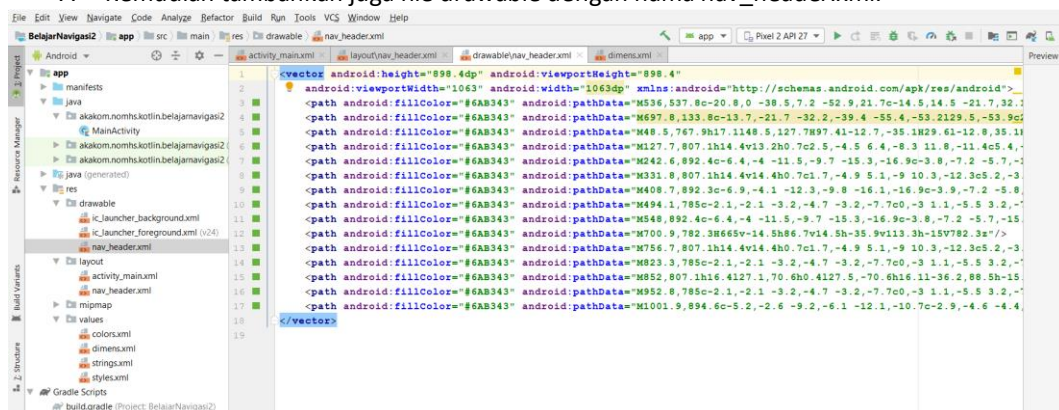
4. Tambahkan sebuah file xml pada resource layout, dengan nama **navheader.xml** dan kemudian tambahkan pada kode sehingga menjadi sebagai berikut



5. Perhatikan atribut yang masih berwarna merah.
6. Pertama anda akan menambahkan untuk resource dimen. Buat folder dimens pada resource: res/value. Kemudian tuliskan sebagai berikut



7. Kemudian tambahkan juga file drawable dengan nama nav_header.xml.



Lengkapnya sebagai berikut

```
<vector android:height="898.4dp"
    android:viewportHeight="898.4"
    android:viewportWidth="1063" android:width="1063dp"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="#6AB343" android:pathData="M536,537.8c-20.8,0 -
    38.5,7.2 -52.9,21.7c-14.5,14.5 -21.7,32.1 -21.7,52.9c0,20.8 7.2,38.6
    21.7,53.4c14.5,14.8 32.1,22.1 52.9,22.1c20.8,0 38.6,-7.4 53.4,-
    22.1c14.8,-14.8 22.1,-32.5 22.1,-53.4c0,-20.8 -7.4,-38.5 -22.1,-
    52.9c574.6,545.1 556.8,537.8 536,537.8z"/>
    <path android:fillColor="#6AB343" android:pathData="M697.8,133.8c-
    13.7,-21.7 -32.2,-39.4 -55.4,-53.2129.5,-53.9c2.3,-4.2 2.9,-9 1.6,-
    13.6c-1.3,-4.7 -4.4,-8.5 -8.6,-10.91-0.2,-0.1c-8.8,-4.6 -19.7,-1.4 -
    24.4,7.31-30.6,55.8c-23.2,-8.4 -48.7,-12.6 -76.4,-12.6c-26.9,0 -
    51.3,4.1 -73.1,12.4L429.7,9.4c-2.3,-4.2 -6.1,-7.3 -10.8,-8.7c-4.6,-
```

```

1.3 -9.5,-0.8 -13.7,1.5c-4.3,2.3 -7.4,6.2 -8.7,10.8c-1.3,4.6 -0.8,9.5
1.6,13.7l30,54.7c-5.3,3.5 -10.5,7.4 -15.4,11.5c-31.8,26.9 -53.2,58.9
-64.2,95.9l99.8,41.7c5.8,-20.2 16.2,-37.2 31.2,-50.8c15,-13.6 34.1,-
20.4 57.3,-20.4c22,0 39.6,6.2 52.9,18.7c13.3,12.5 20,27.6
20,45.6c0,15.1 -3.9,28.4 -11.7,39.9c-7.8,11.6 -20.4,25.2 -37.8,40.8c-
30.1,26 -50.9,49.2 -62.5,69.4c-11.6,20.3 -17.4,44.3 -
17.4,72v28.6h113.7v-13.9c0,-20.2 3.6,-37 10.8,-50.3c7.2,-13.3 20.7,-
29.2 40.4,-47.7c25.5,-24.3 44.5,-47 57.3,-68.1c12.7,-21.1 19.1,-46.7
19.1,-76.8C721.7,186.9 713.7,159 697.8,133.8z"/>
<path android:fillColor="#6AB343"
    android:pathData="M48.5,767.9h17.1l48.5,127.7H97.4l-12.7,-35.1H29.6l-
12.8,35.1H0L48.5,767.9zM79.4,846.2l-16.9,-46l-5,-13.7h-0.7l-
5.2,13.7l-16.8,46H79.4z"/>
<path android:fillColor="#6AB343"
    android:pathData="M127.7,807.1h14.4v13.2h0.7c2.5,-4.5 6.4,-8.3 11.8,-
11.4c5.4,-3.1 11.1,-4.6 17.1,-4.6c10.8,0 19.1,3.2 24.7,9.5c5.6,6.3
8.5,14.9 8.5,25.9v56h-15v-53.7c0,-15.9 -7.4,-23.9 -22.3,-23.9c-4.8,0
-9,1.4 -12.8,4.1c-3.8,2.7 -6.8,6.3 -8.8,10.7c-2.1,4.4 -3.1,9 -
3.1,13.9v48.9h-15.2V807.1z"/>
<path android:fillColor="#6AB343" android:pathData="M242.6,892.4c-6.4,-
4 -11.5,-9.7 -15.3,-16.9c-3.8,-7.2 -5.7,-15.3 -5.7,-24.2c0,-8.9 1.9,-
17 5.7,-24.2c3.8,-7.2 8.9,-12.8 15.3,-16.9c6.4,-4 13.4,-6.1 21.1,-
6.1c6.9,0 13.1,1.5 18.6,4.5c5.5,3 9.6,6.8 12.3,11.3h0.7l-0.7,-12.1v-
40.1h15v127.7h-14.3v-13.2h-0.7c-2.7,4.6 -6.8,8.5 -12.3,11.5c-5.5,3 -
11.7,4.5 -18.6,4.5C256,898.4 249,896.4 242.6,892.4zM280.5,880.7c4.5,-
2.7 8,-6.6 10.7,-11.7c2.7,-5.1 4,-11 4,-17.7c0,-6.8 -1.3,-12.7 -4,-
17.8c-2.7,-5.1 -6.2,-8.9 -10.7,-11.6s-9.3,-4 -14.5,-4c-5.2,0 -
10.1,1.4 -14.5,4.1c-4.5,2.7 -8,6.6 -10.7,11.7c-2.7,5.1 -4,10.9 -
4,17.6c0,6.7 1.3,12.5 4,17.6c2.7,5.1 6.2,9 10.7,11.7c4.5,2.7 9.3,4.1
14.5,4.1C271.2,884.7 276.1,883.4 280.5,880.7z"/>
<path android:fillColor="#6AB343"
    android:pathData="M331.8,807.1h14.4v14.4h0.7c1.7,-4.9 5.1,-9 10.3,-
12.3c5.2,-3.3 10.3,-5 15.4,-5c3.7,0 7.1,0.6 10.3,1.8v16.2c-3.2,-1.8 -
7.4,-2.7 -12.5,-2.7c-4.2,0 -8.1,1.2 -11.7,3.7c-3.6,2.4 -6.5,5.7 -
8.7,9.7s-3.2,8.5 -3.2,13.2v49.4h-15.2V807.1z"/>
<path android:fillColor="#6AB343" android:pathData="M408.7,892.3c-6.9,-
4.1 -12.3,-9.8 -16.1,-16.9c-3.9,-7.2 -5.8,-15.2 -5.8,-24c0,-8.8 1.9,-
16.8 5.8,-24c3.9,-7.2 9.2,-12.8 16.1,-16.9c6.9,-4.1 14.7,-6.2 23.4,-
6.2c8.7,0 16.5,2.1 23.5,6.2c7,4.1 12.4,9.8 16.2,16.9c3.9,7.2 5.8,15.2
5.8,24c0,8.8 -1.9,16.8 -5.8,24c-3.9,7.2 -9.3,12.8 -16.2,16.9c-7,4.1 -
14.8,6.2 -23.5,6.2C423.4,898.4 415.6,896.4
408.7,892.3zM447,880.6c4.6,-2.7 8.4,-6.6 11.1,-11.7c2.8,-5.1 4.2,-
10.9 4.2,-17.6c0,-6.7 -1.4,-12.5 -4.2,-17.6c-2.8,-5.1 -6.5,-8.9 -
11.1,-11.7c-4.6,-2.7 -9.6,-4.1 -15,-4.1c-5.2,0 -10.2,1.4 -14.8,4.1c-
4.6,2.7 -8.4,6.6 -11.1,11.7c-2.8,5.1 -4.2,10.9 -4.2,17.6c0,6.7
1.4,12.5 4.2,17.6c2.8,5.1 6.5,9 11.1,11.7c4.6,2.7 9.6,4.1
14.8,4.1C437.4,884.7 442.4,883.3 447,880.6z"/>
<path android:fillColor="#6AB343" android:pathData="M494.1,785c-2.1,-
2.1 -3.2,-4.7 -3.2,-7.7c0,-3 1.1,-5.5 3.2,-7.7c2.1,-2.1 4.7,-3.2
7.7,-3.2c3,0 5.5,1.1 7.7,3.2s3.2,4.7 3.2,7.7c0,3 -1,5.5 -3.1,7.7c-
2.1,2.1 -4.7,3.2 -7.8,3.2C498.8,788.2 496.3,787.1
494.1,785zM494.3,807.1h15v88.5h-15V807.1z"/>
<path android:fillColor="#6AB343" android:pathData="M548,892.4c-6.4,-4
-11.5,-9.7 -15.3,-16.9c-3.8,-7.2 -5.7,-15.3 -5.7,-24.2c0,-8.9 1.9,-17

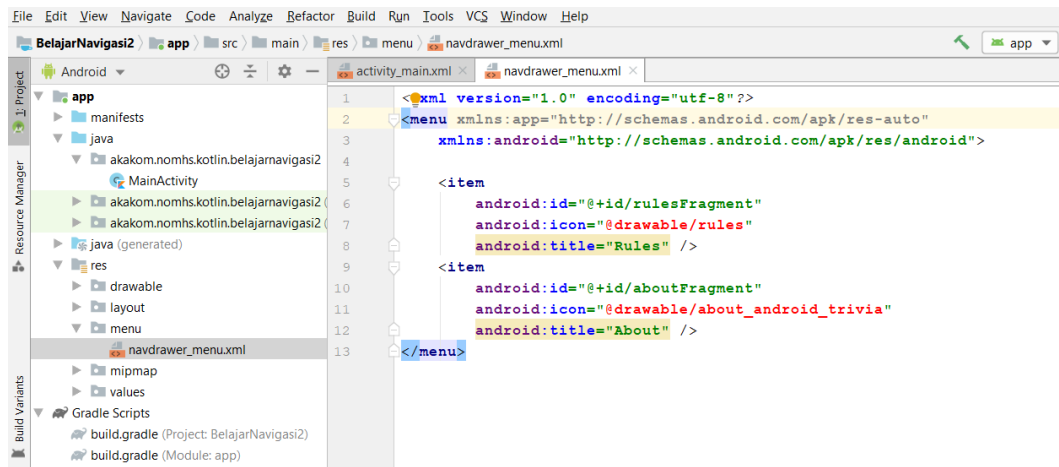
```

```

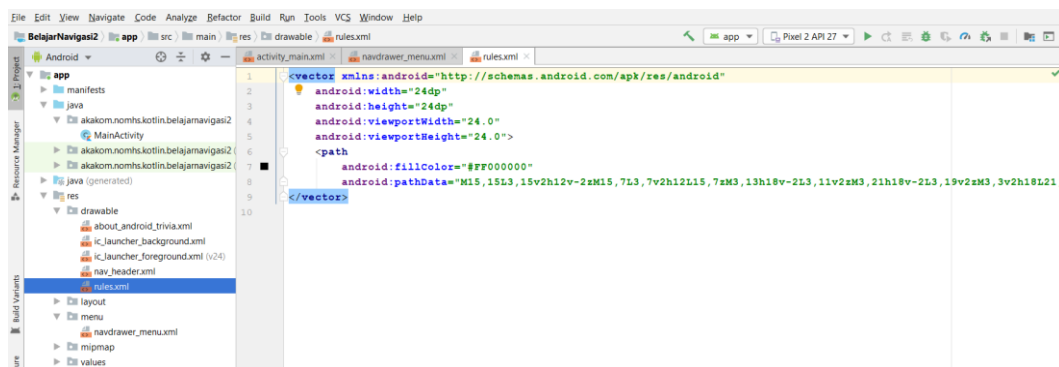
5.7,-24.2c3.8,-7.2 8.9,-12.8 15.3,-16.9c6.4,-4 13.4,-6.1 21.1,-
6.1c6.9,0 13.1,1.5 18.6,4.5c5.5,3 9.6,6.8 12.3,11.3h0.7l-0.7,-12.1v-
40.1h15v127.7h-14.3v-13.2h-0.7c-2.7,4.6 -6.8,8.5 -12.3,11.5c-5.5,3 -
11.7,4.5 -18.6,4.5C561.5,898.4 554.4,896.4
548,892.4zM585.9,880.7c4.5,-2.7 8,-6.6 10.7,-11.7c2.7,-5.1 4,-11 4,-
17.7c0,-6.8 -1.3,-12.7 -4,-17.8c-2.7,-5.1 -6.2,-8.9 -10.7,-11.6c-
4.5,-2.7 -9.3,-4 -14.5,-4c-5.2,0 -10.1,1.4 -14.5,4.1c-4.5,2.7 -8,6.6
-10.7,11.7c-2.7,5.1 -4,10.9 -4,17.6c0,6.7 1.3,12.5 4,17.6c2.7,5.1
6.2,9 10.7,11.7c4.5,2.7 9.3,4.1 14.5,4.1C576.6,884.7 581.5,883.4
585.9,880.7z"/>
<path android:fillColor="#6AB343" android:pathData="M700.9,782.3H665v-
14.5h86.7v14.5h-35.9v113.3h-15V782.3z"/>
<path android:fillColor="#6AB343"
    android:pathData="M756.7,807.1h14.4v14.4h0.7c1.7,-4.9 5.1,-9 10.3,-
12.3c5.2,-3.3 10.3,-5 15.4,-5c3.7,0 7.1,0.6 10.3,1.8v16.2c-3.2,-1.8 -
7.4,-2.7 -12.5,-2.7c-4.2,0 -8.1,1.2 -11.7,3.7c-3.6,2.4 -6.5,5.7 -
8.7,9.7s-3.2,8.5 -3.2,13.2v49.4h-15.2V807.1z"/>
<path android:fillColor="#6AB343" android:pathData="M823.3,785c-2.1,-
2.1 -3.2,-4.7 -3.2,-7.7c0,-3 1.1,-5.5 3.2,-7.7c2.1,-2.1 4.7,-3.2
7.7,-3.2c3,0 5.5,1.1 7.7,3.2s3.2,4.7 3.2,7.7c0,3 -1,5.5 -3.1,7.7c-
2.1,2.1 -4.7,3.2 -7.8,3.2C828,788.2 825.4,787.1
823.3,785zM823.5,807.1h15v88.5h-15V807.1z"/>
<path android:fillColor="#6AB343"
    android:pathData="M852,807.1h16.4l27.1,70.6h0.4l27.5,-70.6h16.1l-
36.2,88.5h-15.3L852,807.1z"/>
<path android:fillColor="#6AB343" android:pathData="M952.8,785c-2.1,-
2.1 -3.2,-4.7 -3.2,-7.7c0,-3 1.1,-5.5 3.2,-7.7c2.1,-2.1 4.7,-3.2
7.7,-3.2c3,0 5.5,1.1 7.7,3.2s3.2,4.7 3.2,7.7c0,3 -1,5.5 -3.1,7.7c-
2.1,2.1 -4.7,3.2 -7.8,3.2C957.5,788.2 954.9,787.1
952.8,785zM953,807.1h15v88.5h-15V807.1z"/>
<path android:fillColor="#6AB343" android:pathData="M1001.9,894.6c-
5.2,-2.6 -9.2,-6.1 -12.1,-10.7c-2.9,-4.6 -4.4,-9.7 -4.4,-15.4c0,-9.4
3.5,-16.7 10.6,-21.9c7.1,-5.2 16.1,-7.8 27.2,-7.8c5.5,0 10.4,0.6
14.8,1.8c4.4,1.2 7.9,2.5 10.5,3.9v-4.6c0,-4.3 -1.1,-8.1 -3.3,-11.5c-
2.2,-3.4 -5.1,-6 -8.8,-7.8c-3.7,-1.8 -7.7,-2.8 -12,-2.8c-10.1,0 -
17.8,4.1 -23.2,12.3l-12.7,-8.4c3.7,-5.5 8.6,-9.7 14.6,-12.8c6.1,-3
12.9,-4.5 20.5,-4.5c12.1,0 21.7,3.3 28.7,9.8c7,6.5 10.5,15.3
10.5,26.4v55.1h-14.4v-13h-0.7c-2.9,4.5 -6.7,8.3 -11.6,11.3c-4.9,3 -
10.5,4.5 -16.9,4.5C1012.9,898.4 1007.1,897.2
1001.9,894.6zM1034.1,881.3c4.3,-2.5 7.8,-5.9 10.4,-10.2c2.7,-4.3 4,-
8.9 4,-13.9c-6.7,-4.3 -14.3,-6.4 -23,-6.4c-7.5,0 -13.5,1.7 -
17.9,5.1c-4.5,3.4 -6.7,7.7 -6.7,12.9c0,4.8 2,8.7 5.9,11.7c3.9,3
8.5,4.5 13.7,4.5C1025.3,885.1 1029.9,883.8 1034.1,881.3z"/>
</vector>

```

8. Buat sebuah file **navdrawer_menu.xml** pada folder resource **menu** (jika menu belum ada, dibuat terlebih dulu). Anda masih membutuhkan file **rules.xml** dan **about_android_trivia.xml** pada resource **drawable**.



9. Berikut kedua file tersebut



rules.xml

```
<vector xmlns:android="http://schemas.android.com/apk/res/android"
    android:width="24dp"
    android:height="24dp"
    android:viewportWidth="24.0"
    android:viewportHeight="24.0">
    <path
        android:fillColor="#FF000000"
        android:pathData="M15,15L3,15v2h12v-
2zM15,7L3,7v2h12L15,7zM3,13h18v-2L3,11v2zM3,21h18v-
2L3,19v2zM3,3v2h18L21,3L3,3z" />
</vector>
```

about_android_trivia.xml

```
<vector android:height="535dp" android:viewportHeight="535"
    android:viewportWidth="507" android:width="507dp"
    xmlns:android="http://schemas.android.com/apk/res/android">
<path android:fillColor="#6AB343" android:pathData="M255.6,256.5c-9.9,0
-18.4,3.5 -25.3,10.3c-6.9,6.9 -10.3,15.3 -10.3,25.3s3.4,18.4
10.3,25.5c6.9,7 15.3,10.6 25.3,10.6c9.9,0 18.4,-3.5 25.5,-10.6c7,-7
```



```

10.6,-15.5 10.6,-25.5s-3.5,-18.4 -10.6,-25.3C274.1,260 265.6,256.5
255.6,256.5z"/>
<path android:fillColor="#6AB343" android:pathData="M332.8,63.8c-6.6,-
10.4 -15.4,-18.8 -26.4,-25.4l14.1,-25.7c1.1,-2 1.4,-4.3 0.7,-6.5c-
0.6,-2.2 -2.1,-4.1 -4.1,-5.2L317,1c-4.2,-2.2 -9.4,-0.7 -11.6,3.5l-
14.6,26.6c-11.1,-4 -23.2,-6 -36.4,-6c-12.8,0 -24.5,2 -
34.9,5.9L205,4.5c-1.1,-2 -2.9,-3.5 -5.1,-4.1c-2.2,-0.6 -4.5,-0.4 -
6.5,0.7c-2,1.1 -3.5,2.9 -4.2,5.2c-0.6,2.2 -0.4,4.5
0.7,6.5l14.3,26.1c-2.5,1.7 -5,3.5 -7.3,5.5c-15.2,12.8 -25.4,28.1 -
30.6,45.7l47.6,19.9c2.8,-9.7 7.7,-17.7 14.9,-24.2C235.9,79.3 245,76
256,76c10.5,0 18.9,3 25.3,8.9c6.3,5.9 9.5,13.2 9.5,21.7c0,7.2 -
1.9,13.5 -5.6,19c-3.7,5.5 -9.7,12 -18,19.5c-14.4,12.4 -24.3,23.5 -
29.8,33.1c-5.5,9.7 -8.3,21.1 -8.3,34.4v13.7h54.2v-6.6c0,-9.7 1.7,-
17.7 5.2,-24c3.4,-6.3 9.9,-13.9 19.2,-22.8c12.1,-11.6 21.2,-22.4
27.3,-32.5c6.1,-10.1 9.1,-22.3 9.1,-36.6C344.2,89.2 340.4,75.8
332.8,63.8z"/>
    <path android:fillColor="#6AB343"
android:pathData="M23.1,366.2h8.2l23.1,60.9h-8l-6,-
16.8H14.1L8,427.2H0L23.1,366.2zM37.9,403.6l-8.1,-22l-2.4,-6.6h-0.3l-
2.5,6.6l-8,22H37.9z"/>
    <path android:fillColor="#6AB343"
android:pathData="M60.9,385h6.9v6.3h0.3c1.2,-2.2 3.1,-4 5.6,-
5.4c2.6,-1.5 5.3,-2.2 8.2,-2.2c5.2,0 9.1,1.5 11.8,4.5c2.7,3 4,7.1
4,12.3v26.7h-7.1v-25.6c0,-7.6 -3.5,-11.4 -10.6,-11.4c-2.3,0 -4.3,0.7
-6.1,2c-1.8,1.3 -3.2,3 -4.2,5.1c-1,2.1 -1.5,4.3 -1.5,6.6v23.3h-
7.2V385z"/>
    <path android:fillColor="#6AB343"
android:pathData="M115.7,425.6c-3.1,-1.9 -5.5,-4.6 -7.3,-8c-1.8,-3.4
-2.7,-7.3 -2.7,-11.5c0,-4.3 0.9,-8.1 2.7,-11.5c1.8,-3.4 4.3,-6.1
7.3,-8c3.1,-1.9 6.4,-2.9 10,-2.9c3.3,0 6.2,0.7 8.8,2.2c2.6,1.4
4.6,3.2 5.9,5.4h0.3l-0.3,-5.8v-19.1h7.1v60.9h-6.8v-6.3h-0.3c-1.3,2.2
-3.3,4 -5.9,5.5c-2.6,1.4 -5.6,2.2 -8.8,2.2C122.1,428.5 118.8,427.6
115.7,425.6zM133.8,420.1c2.1,-1.3 3.8,-3.1 5.1,-5.6c1.3,-2.4 1.9,-
5.2 1.9,-8.4c0,-3.2 -0.6,-6.1 -1.9,-8.5c-1.3,-2.4 -3,-4.3 -5.1,-
5.5c-2.1,-1.3 -4.4,-1.9 -6.9,-1.9c-2.5,0 -4.8,0.7 -6.9,2c-2.1,1.3 -
3.8,3.2 -5.1,5.6c-1.3,2.4 -1.9,5.2 -1.9,8.4s0.6,6 1.9,8.4c1.3,2.4
3,4.3 5.1,5.6c2.1,1.3 4.4,2 6.9,2C129.4,422 131.7,421.3
133.8,420.1z"/>
    <path android:fillColor="#6AB343"
android:pathData="M158.3,385h6.9v6.9h0.3c0.8,-2.3 2.4,-4.3 4.9,-
5.9c2.5,-1.6 4.9,-2.4 7.4,-2.4c1.8,0 3.4,0.3 4.9,0.9v7.7c-1.5,-0.9 -
3.5,-1.3 -6,-1.3c-2,0 -3.8,0.6 -5.6,1.7c-1.7,1.2 -3.1,2.7 -4.1,4.6c-
1,1.9 -1.5,4 -1.5,6.3v23.5h-7.2V385z"/>
    <path android:fillColor="#6AB343"
android:pathData="M194.9,425.6c-3.3,-2 -5.9,-4.7 -7.7,-8.1c-1.8,-3.4
-2.8,-7.2 -2.8,-11.4c0,-4.2 0.9,-8 2.8,-11.4c1.8,-3.4 4.4,-6.1 7.7,-
8.1c3.3,-2 7,-2.9 11.1,-2.9c4.1,0 7.9,1 11.2,2.9c3.3,2 5.9,4.7
7.7,8.1c1.8,3.4 2.8,7.2 2.8,11.4c0,4.2 -0.9,8 -2.8,11.4c-1.8,3.4 -
4.4,6.1 -7.7,8.1c-3.3,2 -7,2.9 -11.2,2.9C201.9,428.5 198.2,427.5
194.9,425.6zM213.2,420c2.2,-1.3 4,-3.2 5.3,-5.6c1.3,-2.4 2,-5.2 2,-
8.4s-0.7,-6 -2,-8.4c-1.3,-2.4 -3.1,-4.3 -5.3,-5.6c-2.2,-1.3 -4.6,-2
-7.1,-2c-2.5,0 -4.9,0.7 -7.1,2c-2.2,1.3 -4,3.2 -5.3,5.6c-1.3,2.4 -
2,5.2 -2,8.4s0.7,6 2,8.4c1.3,2.4 3.1,4.3 5.3,5.6c2.2,1.3 4.6,2
7.1,2C208.6,422 211,421.3 213.2,420z"/>

```



```

    <path android:fillColor="#6AB343"
    android:pathData="M235.7,374.4c-1,-1 -1.5,-2.2 -1.5,-3.7c0,-1.4
    0.5,-2.6 1.5,-3.7c1,-1 2.2,-1.5 3.7,-1.5c1.4,0 2.6,0.5 3.7,1.5c1,1
    1.5,2.2 1.5,3.7c0,1.4 -0.5,2.6 -1.5,3.7c-1,1 -2.2,1.5 -
    3.7,1.5C237.9,375.9 236.7,375.4 235.7,374.4zM235.8,385h7.1v42.2h-
    7.1V385z"/>
    <path android:fillColor="#6AB343"
    android:pathData="M261.4,425.6c-3.1,-1.9 -5.5,-4.6 -7.3,-8c-1.8,-3.4
    -2.7,-7.3 -2.7,-11.5c0,-4.3 0.9,-8.1 2.7,-11.5c1.8,-3.4 4.3,-6.1
    7.3,-8c3.1,-1.9 6.4,-2.9 10,-2.9c3.3,0 6.2,0.7 8.8,2.2c2.6,1.4
    4.6,3.2 5.9,5.4h0.31-0.3,-5.8v-19.1h7.1v60.9h-6.8v-6.3h-0.3c-1.3,2.2
    -3.3,4 -5.9,5.5c-2.6,1.4 -5.6,2.2 -8.8,2.2C267.8,428.5 264.5,427.6
    261.4,425.6zM279.5,420.1c2.1,-1.3 3.8,-3.1 5.1,-5.6c1.3,-2.4 1.9,-
    5.2 1.9,-8.4c0,-3.2 -0.6,-6.1 -1.9,-8.5c-1.3,-2.4 -3,-4.3 -5.1,-
    5.5s-4.4,-1.9 -6.9,-1.9s-4.8,0.7 -6.9,2c-2.1,1.3 -3.8,3.2 -5.1,5.6c-
    1.3,2.4 -1.9,5.2 -1.9,8.4s0.6,6 1.9,8.4c1.3,2.4 3,4.3
    5.1,5.6c2.1,1.3 4.4,2 6.9,2S277.3,421.3 279.5,420.1z"/>
    <path android:fillColor="#424242"
    android:pathData="M334.3,373.1h-17.1v-6.9h41.4v6.9h-17.1v54h-
    7.1V373.1z"/>
    <path android:fillColor="#424242"
    android:pathData="M360.9,385h6.9v6.9h0.3c0.8,-2.3 2.4,-4.3 4.9,-
    5.9c2.5,-1.6 4.9,-2.4 7.4,-2.4c1.8,0 3.4,0.3 4.9,0.9v7.7c-1.5,-0.9 -
    3.5,-1.3 -6,-1.3c-2,0 -3.8,0.6 -5.6,1.7c-1.7,1.2 -3.1,2.7 -4.1,4.6c-
    1,1.9 -1.5,4 -1.5,6.3v23.5h-7.2V385z"/>
    <path android:fillColor="#424242"
    android:pathData="M392.7,374.4c-1,-1 -1.5,-2.2 -1.5,-3.7c0,-1.4
    0.5,-2.6 1.5,-3.7c1,-1 2.2,-1.5 3.7,-1.5c1.4,0 2.6,0.5 3.7,1.5c1,1
    1.5,2.2 1.5,3.7c0,1.4 -0.5,2.6 -1.5,3.7c-1,1 -2.2,1.5 -
    3.7,1.5C394.9,375.9 393.7,375.4 392.7,374.4zM392.8,385h7.1v42.2h-
    7.1V385z"/>
    <path android:fillColor="#424242"
    android:pathData="M406.4,385h7.8l12.9,33.7h0.2l13.1,-33.7h7.7l-
    17.3,42.2h-7.3L406.4,385z"/>
    <path android:fillColor="#424242"
    android:pathData="M454.5,374.4c-1,-1 -1.5,-2.2 -1.5,-3.7c0,-1.4
    0.5,-2.6 1.5,-3.7c1,-1 2.2,-1.5 3.7,-1.5c1.4,0 2.6,0.5 3.7,1.5c1,1
    1.5,2.2 1.5,3.7c0,1.4 -0.5,2.6 -1.5,3.7c-1,1 -2.2,1.5 -
    3.7,1.5C456.7,375.9 455.5,375.4 454.5,374.4zM454.5,385h7.1v42.2h-
    7.1V385z"/>
    <path android:fillColor="#424242"
    android:pathData="M477.9,426.7c-2.5,-1.2 -4.4,-2.9 -5.8,-5.1c-1.4,-
    2.2 -2.1,-4.6 -2.1,-7.4c0,-4.5 1.7,-8 5.1,-10.5c3.4,-2.5 7.7,-3.7
    13,-3.7c2.6,0 5,0.3 7.1,0.9c2.1,0.6 3.8,1.2 5,1.9v-2.2c0,-2 -0.5,-
    3.9 -1.6,-5.5c-1.1,-1.6 -2.5,-2.9 -4.2,-3.7c-1.8,-0.9 -3.7,-1.3 -
    5.7,-1.3c-4.8,0 -8.5,2 -11.1,5.9l-6,-4c1.8,-2.6 4.1,-4.6 7,-
    6.1c2.9,-1.4 6.2,-2.2 9.8,-2.2c5.8,0 10.4,1.6 13.7,4.7c3.3,3.1 5,7.3
    5,12.6v26.3h-6.9V421h-0.3c-1.4,2.2 -3.2,4 -5.5,5.4c-2.3,1.4 -5,2.2 -
    8.1,2.2S480.4,427.9 477.9,426.7zM493.3,420.4c2,-1.2 3.7,-2.8 5,-
    4.9s1.9,-4.3 1.9,-6.6c-3.2,-2 -6.8,-3.1 -11,-3.1c-3.6,0 -6.4,0.8 -
    8.6,2.4c-2.1,1.6 -3.2,3.7 -3.2,6.2c0,2.3 0.9,4.1 2.8,5.6c1.9,1.4
    4.1,2.2 6.6,2.2C489.1,422.1 491.2,421.6 493.3,420.4z"/>
    <path android:fillColor="#424242"
    android:pathData="M162.7,472.7h8.2l23.1,60.9h-8l-6,-16.8h-26.3l-

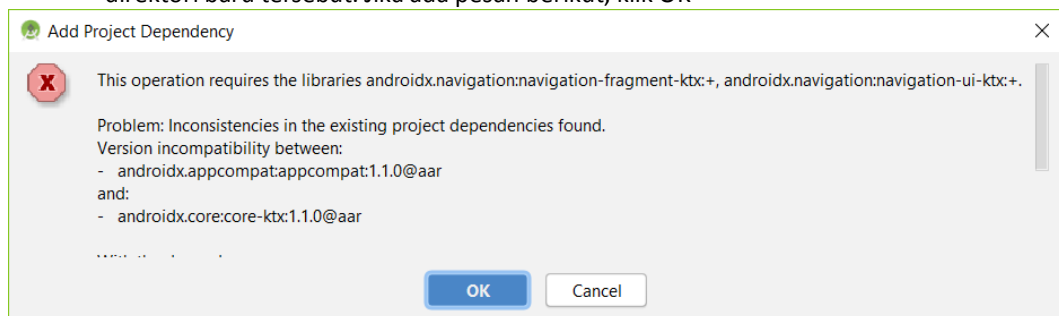
```

```

6.1,16.8h-8L162.7,472.7zM177.4,510.11-8.1,-221-2.4,-6.6h-0.31-
2.5,6.61-8,22H177.4z"/>
    <path android:fillColor="#424242"
android:pathData="M213.5,532.9c-2.6,-1.4 -4.5,-3.3 -5.8,-5.5h-
0.3v6.3h-6.9v-60.9h7.2v19.11-0.3,5.8h0.3c1.4,-2.2 3.3,-4 5.9,-
5.4c2.6,-1.4 5.5,-2.2 8.8,-2.2c3.6,0 7,1 10,2.9c3.1,2 5.5,4.6
7.3,8c1.8,3.4 2.7,7.2 2.7,11.5c0,4.3 -0.9,8.1 -2.7,11.5c-1.8,3.4 -
4.3,6.1 -7.3,8c-3.1,2 -6.4,2.9 -10,2.9C219.1,535 216.1,534.3
213.5,532.9zM228.2,526.5c2.1,-1.3 3.8,-3.2 5.1,-5.6c1.3,-2.4 1.9,-
5.2 1.9,-8.4c0,-3.2 -0.6,-6 -1.9,-8.4c-1.3,-2.4 -3,-4.3 -5.1,-5.6c-
2.1,-1.3 -4.4,-2 -6.9,-2c-2.5,0 -4.8,0.6 -6.9,1.9c-2.1,1.3 -3.8,3.1
-5.1,5.5c-1.3,2.4 -1.9,5.2 -1.9,8.5c0,3.2 0.6,6 1.9,8.4c1.3,2.4
3,4.3 5.1,5.6c2.1,1.3 4.4,1.9 6.9,1.9C223.8,528.5 226.1,527.8
228.2,526.5z"/>
    <path android:fillColor="#424242"
android:pathData="M258.8,532.1c-3.3,-2 -5.9,-4.7 -7.7,-8.1c-1.8,-3.4
-2.8,-7.2 -2.8,-11.4c0,-4.2 0.9,-8 2.8,-11.4c1.8,-3.4 4.4,-6.1 7.7,-
8.1c3.3,-2 7,-2.9 11.1,-2.9c4.1,0 7.9,1 11.2,2.9s5.9,4.7
7.7,8.1c1.8,3.4 2.8,7.2 2.8,11.4c0,4.2 -0.9,8 -2.8,11.4c-1.8,3.4 -
4.4,6.1 -7.7,8.1s-7,2.9 -11.2,2.9C265.8,535 262,534
258.8,532.1zM277,526.5c2.2,-1.3 4,-3.2 5.3,-5.6c1.3,-2.4 2,-5.2 2,-
8.4c0,-3.2 -0.7,-6 -2,-8.4c-1.3,-2.4 -3.1,-4.3 -5.3,-5.6c-2.2,-1.3 -
4.6,-2 -7.1,-2c-2.5,0 -4.9,0.7 -7.1,2c-2.2,1.3 -4,3.2 -5.3,5.6c-
1.3,2.4 -2,5.2 -2,8.4c0,3.2 0.7,6 2,8.4c1.3,2.4 3.1,4.3
5.3,5.6c2.2,1.3 4.6,2 7.1,2C272.5,528.5 274.8,527.8 277,526.5z"/>
    <path android:fillColor="#424242" android:pathData="M303,530.5c-
2.7,-3 -4,-7.2 -4,-12.5v-26.5h7.2v25.4c0,7.8 3.5,11.7
10.5,11.7c2.3,0 4.4,-0.7 6.3,-2c1.8,-1.3 3.3,-3 4.3,-5.1c1,-2.1
1.5,-4.3 1.5,-6.6v-23.3h7.1v42.2H329v-6.3h-0.3c-1.2,2.2 -3.1,4 -
5.7,5.4c-2.5,1.5 -5.2,2.2 -8.1,2.2C309.7,535 305.7,533.5
303,530.5z"/>
    <path android:fillColor="#424242"
android:pathData="M358.4,534.2c-1.4,-0.6 -2.7,-1.4 -3.7,-2.3c-1.1,-
1.1 -2,-2.4 -2.5,-3.9c-0.5,-1.5 -0.8,-3.2 -0.8,-5.2V498h-7.5v-
6.6h7.5v-12.6h7.1v12.6h10.4v6.6h-10.4v23c0,2.4 0.5,4.2 1.4,5.4c1,1.3
2.4,1.9 4.4,1.9c1.8,0 3.3,-0.4 4.6,-1.2v7c-0.9,0.3 -1.8,0.6 -
2.6,0.7c-0.8,0.1 -1.9,0.2 -3.3,0.2C361.5,535 359.9,534.7
358.4,534.2z"/>
</vector>

```

10. Tambahkan direktori **navigation** pada resource file. Kemudian buat sebuah file **navigation.xml** pada direktori baru tersebut. Jika ada pesan berikut, klik OK



11. Tulislah kode pada file **navigation.xml** menjadi seperti berikut.

```
<?xml version="1.0" encoding="utf-8"?>
<navigation
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/navigation"
app:startDestination="@id/titleFragment">

    <fragment
        android:id="@+id/titleFragment"
        android:name="com.latihan.darmanto.modul7.TitleFragment"
        android:label="Intro"
        tools:layout="@layout/fragment_title">
        <action

            android:id="@+id/action_titleFragment_to_gameFragment"
            app:destination="@id/gameFragment" />
        </fragment>
        <fragment
            android:id="@+id/gameFragment"
            android:name="com.latihan.darmanto.modul7.GameFragment"
            android:label="Game"
            tools:layout="@layout/fragment_game">
            <action

                android:id="@+id/action_gameFragment_to_gameOverFragment"
                app:destination="@id/gameOverFragment"
                app:popUpTo="@+id/gameFragment"
                app:popUpToInclusive="true" />
            <action

                android:id="@+id/action_gameFragment_to_gameWonFragment"
                app:destination="@id/gameWonFragment"
                app:popUpTo="@+id/gameFragment"
                app:popUpToInclusive="true" />
            </fragment>
            <fragment
                android:id="@+id/gameOverFragment"

                android:name="com.latihan.darmanto.modul7.GameOverFragment"
                android:label="Game Failed"
                tools:layout="@layout/fragment_game_over">
                <action

                    android:id="@+id/action_gameOverFragment_to_gameFragment"
                    app:destination="@id/gameFragment"
```

```

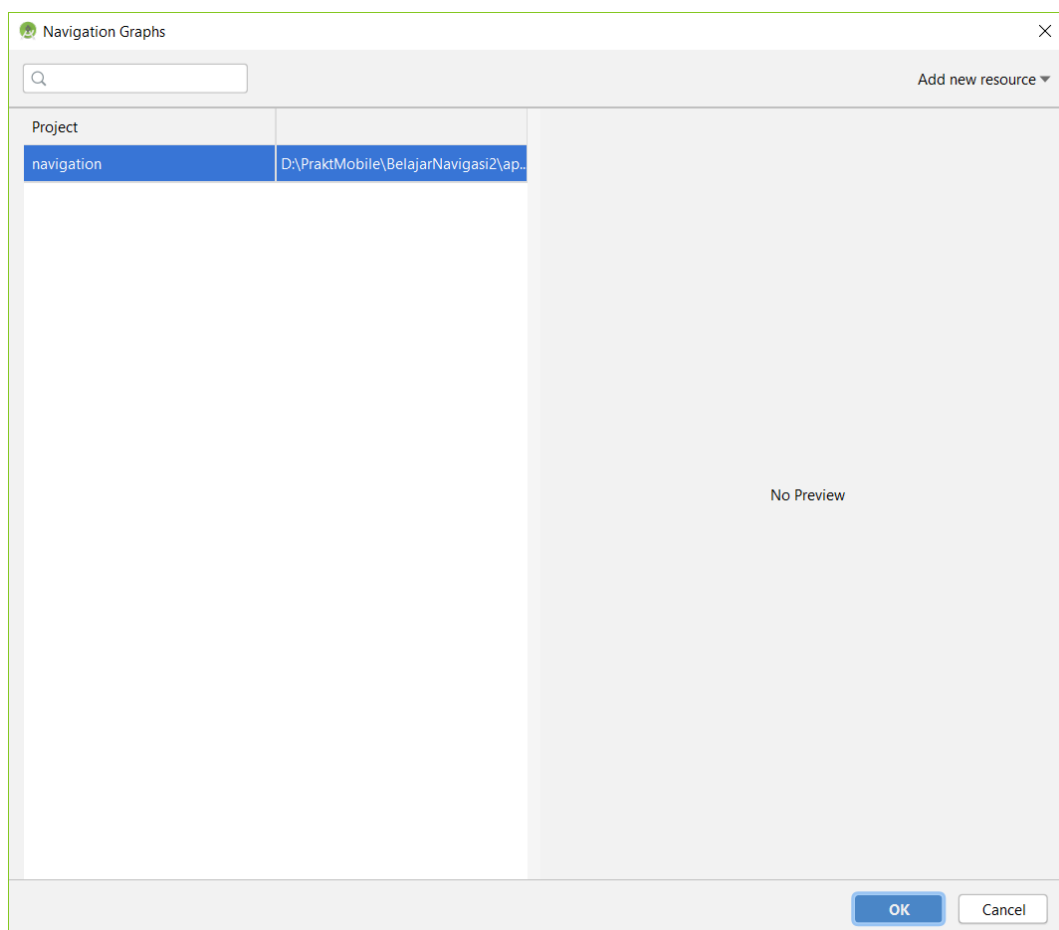
        app:popUpTo="@+id/titleFragment"
        app:popUpToInclusive="false" />
    </fragment>
    <fragment
        android:id="@+id/gameWonFragment"

        android:name="com.latihan.darmanto.modul7.GameWonFragment"
        android:label="Game Won"
        tools:layout="@layout/fragment_game_won">
        <action

            android:id="@+id/action_gameWonFragment_to_titleFragment"
            app:destination="@+id/titleFragment"
            app:popUpTo="@+id/titleFragment"
            app:popUpToInclusive="false" />
        </fragment>
    </navigation>

```

12. Kemudian, kembali ke **activity_main.xml**. Tambahkan **NavHostFragment**. Akan muncul layar berikut, klik OK



13. Tambahkan juga **NavigationView**.
14. Pindahlah ke Text mode dan ubahlah kodenya sehingga menjadi sebagai berikut

```
<?xml version="1.0" encoding="utf-8"?>
<layout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto">

    <androidx.drawerlayout.widget.DrawerLayout
        android:id="@+id/drawerLayout"
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:orientation="vertical">

            <fragment
                android:id="@+id/myNavHostFragment"
                android:name=
                    "androidx.navigation.fragment.NavHostFragment"
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                app:defaultNavHost="true"
                app:navGraph="@navigation/navigation" />
            </LinearLayout>

            <com.google.android.material.navigation.NavigationView
                android:id="@+id/navView"
                android:layout_width="wrap_content"
                android:layout_height="match_parent"
                android:layout_gravity="start"
                app:headerLayout="@layout/nav_header"
                app:menu="@menu/navdrawer_menu" />
            </androidx.drawerlayout.widget.DrawerLayout>
        </layout>
```

15. Ubahlah resource **string** menjadi sebagai berikut

```
<resources>
    <string name="app_name">BelajarNavigasi2</string>
    <string name="game_over">Game Over</string>
    <string name="try_again">Try Again?</string>
    <string name="android_trivia">Android Trivia</string>
    <string name="submit_button">Submit</string>
    <string name="congratulations">Congratulations!</string>
</resources>
```

16. Kemudian buatlah empat buah fragment sebagai berikut

fragment_tittle.xml

```

<?xml version="1.0" encoding="utf-8" ?>

<layout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    tools:context="com.example.android.navigation.TitleFragment">

    <androidx.constraintlayout.widget.ConstraintLayout
        android:id="@+id/titleConstraint"
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <Button
            android:id="@+id/playButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginStart="@dimen/horizontal_margin"
            android:layout_marginEnd="@dimen/horizontal_margin"
            android:paddingStart="@dimen/button_padding"
            android:paddingEnd="@dimen/button_padding"
            android:text="Play"
            android:textColor="@color/colorAccent"
            android:textSize="@dimen/button_text_size"
            android:textStyle="bold"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/titleImage" />

        <ImageView
            android:id="@+id/titleImage"
            android:layout_width="0dp"
            android:layout_height="@dimen/image_header_height"
            android:layout_marginStart="@dimen/horizontal_margin"
            android:layout_marginEnd="@dimen/horizontal_margin"
            android:scaleType="fitCenter"
            app:layout_constraintBottom_toTopOf="@+id/playButton"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="1.0"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:srcCompat="@drawable/android_trivia" />

    </androidx.constraintlayout.widget.ConstraintLayout>
</layout>

```

fragment_game.xml

```

<?xml version="1.0" encoding="utf-8" ?>
<layout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"

```

```

tools:context="com.example.android.navigation.InGame">

<ScrollView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fillViewport="true">

    <androidx.constraintlayout.widget.ConstraintLayout
        android:id="@+id/frameLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <Button
            android:id="@+id/submitButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginStart=
                "@dimen/question_horizontal_margin"
            android:layout_marginTop="@dimen/vertical_margin"
            android:layout_marginEnd=
                "@dimen/question_horizontal_margin"
            android:text="@string/submit_button"
            android:textSize="@dimen/button_text_size"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toBottomOf=
                "@+id/questionRadioGroup" />

        <ImageView
            android:id="@+id/questionImage"
            android:layout_width="0dp"
            android:layout_height="@dimen/image_header_height"
            android:layout_marginStart="@dimen/horizontal_margin"
            android:layout_marginTop="@dimen/vertical_margin"
            android:layout_marginEnd="@dimen/horizontal_margin"
            android:layout_marginBottom="@dimen/vertical_margin"
            android:scaleType="fitCenter"
            app:layout_constraintBottom_toTopOf="@+id/questionText"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_chainStyle="packed"
            app:srcCompat="@drawable/android_category_simple" />

        <RadioGroup
            android:id="@+id/questionRadioGroup"
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_marginStart=
                "@dimen/question_horizontal_margin"
            android:layout_marginTop="@dimen/vertical_margin"
            android:layout_marginEnd=
                "@dimen/question_horizontal_margin"
            android:animateLayoutChanges="true"

```

```

        android:orientation="vertical"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf=
            "@+id/questionText">

<RadioButton
    android:id="@+id/firstAnswerRadioButton"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom=
        "@dimen/question_vertical_margin"
    android:checked="true"
    android:text="Blue"
    android:textSize="@dimen/answer_text_size" />

<RadioButton
    android:id="@+id/secondAnswerRadioButton"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom=
        "@dimen/question_vertical_margin"
    android:text="Green"
    android:textSize="@dimen/answer_text_size" />

<RadioButton
    android:id="@+id/thirdAnswerRadioButton"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom=
        "@dimen/question_vertical_margin"
    android:text="Yellow"
    android:textSize="@dimen/answer_text_size" />

<RadioButton
    android:id="@+id/fourthAnswerRadioButton"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Red"
    android:textSize="@dimen/answer_text_size" />
</RadioGroup>

<TextView
    android:id="@+id/questionText"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginStart=
        "@dimen/question_horizontal_margin"
    android:layout_marginTop="@dimen/vertical_margin"
    android:layout_marginEnd=
        "@dimen/question_horizontal_margin"
    android:layout_marginBottom="@dimen/vertical_margin"
    android:fontFamily="sans-serif"
    android:text="What color is the Android mascot?"

```



```

        android:textSize="@dimen/question_text_size"
        android:textStyle="bold"
        android:typeface="normal"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf=
            "@+id/questionImage" />
    </androidx.constraintlayout.widget.ConstraintLayout>
</ScrollView>
</layout>

```

fragment_game_over.xml

```

<?xml version="1.0" encoding="utf-8"?>

<layout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    tools:context="com.example.android.navigation.GameOverFragment">

    <androidx.constraintlayout.widget.ConstraintLayout
        android:id="@+id/gameOverConstraintLayout"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:background="@color/gameOverBackground">

        <ImageView
            android:id="@+id/gameOverFragment"
            android:layout_width="wrap_content"
            android:layout_height="362dp"
            android:layout_marginStart="@dimen/horizontal_margin"
            android:layout_marginEnd="@dimen/horizontal_margin"
            android:layout_marginBottom="8dp"
            android:scaleType="fitCenter"
            app:layout_constraintBottom_toTopOf="@+id/tryAgainButton"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_chainStyle="packed"
            app:srcCompat="@drawable/try_again" />

        <Button
            android:id="@+id/tryAgainButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginStart="@dimen/vertical_margin"
            android:layout_marginTop="@dimen/vertical_margin"
            android:layout_marginEnd="@dimen/vertical_margin"
            android:layout_marginBottom="8dp"
            android:paddingStart="@dimen/button_padding"
            android:paddingEnd="@dimen/button_padding"
            android:text="@string/try_again"
            android:textColor="?colorAccent"

```

```

        android:textSize="@dimen/button_text_size"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/gameOverFragment"
    />
    </androidx.constraintlayout.widget.ConstraintLayout>
</layout>

```

fragment_game_won.xml

```

<?xml version="1.0" encoding="utf-8"?>
<layout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    tools:context="com.example.android.navigation.GameWonFragment">

    <androidx.constraintlayout.widget.ConstraintLayout
        android:id="@+id/gameWonConstraintLayout"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:background="@color/youWinBackground">

        <Button
            android:id="@+id/nextMatchButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:paddingStart="@dimen/button_padding"
            android:paddingEnd="@dimen/button_padding"
            android:text="Next Match"
            android:textColor="@color/youWinDark"
            android:textSize="@dimen/button_text_size"
            android:textStyle="bold"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/youWinImage" />

        <ImageView
            android:id="@+id/youWinImage"
            android:layout_width="0dp"
            android:layout_height="@dimen/game_over_height"
            android:layout_marginStart="@dimen/horizontal_margin"
            android:layout_marginTop="8dp"
            android:layout_marginEnd="@dimen/horizontal_margin"
            android:layout_marginBottom="@dimen/vertical_margin"
            android:scaleType="fitCenter"
            app:layout_constraintBottom_toTopOf="@+id/nextMatchButton"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"

```

```

        app:srcCompat="@drawable/you_win" />

    </androidx.constraintlayout.widget.ConstraintLayout>
</layout>

```

17. Ubahlah, menjadi

Color.xml

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="colorPrimary">#008577</color>
    <color name="colorPrimaryDark">#00574B</color>
    <color name="colorAccent">#7e53c5</color>
    <color name="youWinDark">#35A571</color>
    <color name="youWinBackground">#B7F8C9</color>
    <color name="gameOverBackground">#f8bbd0</color>
</resources>

```

String.xml

```

<resources>
    <string name="app_name">BelajarNavigasi2</string>
    <string name="game_over">Game Over</string>
    <string name="try_again">Try Again?</string>
    <string name="android_trivia">Android Trivia</string>
    <string name="submit_button">Submit</string>
    <string name="congratulations">Congratulations!</string>
</resources>

```

18. Tambahkan pada drawable

android_category_simple.xml

```

<vector android:height="411.3dp" android:viewportHeight="411.3"
    android:viewportWidth="473.8" android:width="473.8dp"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="#6AB343"
        android:pathData="M353.1,221.9136.7,-67c2,-3.5 0.7,-8 -2.9,-9.9c-3.6,-
        1.9 -8,-0.6 -9.9,2.91-37.1,67.7c-31.2,-13.9 -66.1,-21.7 -103.1,-21.6c-
        36.8,0 -71.7,7.7 -102.8,21.51-37.1,-67.6c-1.9,-3.6 -6.4,-4.9 -9.9,-
        2.9c-3.6,1.9 -4.9,6.4 -2.9,9.9136.7,67C48.7,259.1 0,330
        0,411.31473.8,0C473.8,330 425.1,259.2 353.1,221.9M129.1,325.5c-10.9,0 -
        19.8,-8.9 -19.8,-19.8c0,-10.9 8.9,-19.9 19.8,-19.9c11,0 19.9,9
        19.9,19.9C149,316.6 140.1,325.5 129.1,325.5M344.8,325.5c-11,0 -19.9,-
        8.9 -19.9,-19.9c0,-10.9 8.9,-19.9 19.9,-19.9c10.9,0 19.8,9
        19.8,19.9C364.7,316.6 355.8,325.5 344.8,325.5"/>
    <path android:fillColor="#424242" android:pathData="M226.8,93.1c0,-
        6.6 1.2,-12 3.6,-16.4c2.4,-4.4 6.9,-9.5 13.5,-15.5c5.1,-4.7 8.8,-8.8
        11.1,-12.1c2.3,-3.3 3.4,-7.4 3.4,-12.1c0,-6.3 -2,-11.4 -6.1,-15.3c-

```

```

4.1,-3.9 -9.7,-5.8 -16.9,-5.8c-6.6,0 -11.7,1.9 -15.5,5.6c-3.8,3.7 -
6.7,8.4 -8.7,13.9l-15.5,-6.5c2.6,-7.6 7.3,-14.3 14,-20.2C216.4,2.9
225,0 235.5,0c7.9,0 14.9,1.6 21,4.8c6.1,3.2 10.8,7.6 14.2,13.3c3.3,5.6
5,11.9 5,18.9c0,5 -1.1,9.6 -3.1,13.9c-2.1,4.3 -4.4,7.7 -6.8,10.4c-
2.4,2.7 -5.5,5.8 -9.3,9.3c-4.3,3.9 -7.5,7.7 -9.5,11.2c-2,3.5 -3.1,7.7 -
3.1,12.4v8.3h-16.9V93.1zM226.6,140.4c-2.4,-2.4 -3.6,-5.4 -3.6,-9c0,-3.4
1.2,-6.3 3.6,-8.8c2.4,-2.4 5.3,-3.6 8.8,-3.6c3.5,0 6.5,1.2
9,3.6c2.4,2.4 3.6,5.3 3.6,8.8c0,3.5 -1.2,6.5 -3.6,9c-2.4,2.4 -5.4,3.6 -
9,3.6C231.9,144.1 229,142.9 226.6,140.4z"/>
<path android:fillColor="#424242" android:pathData="M126.3,82.2c-
2.1,-4.4 -3,-8.5 -2.7,-12.2c0.3,-3.7 1.7,-8.6 4.2,-14.6c2,-4.8 3.2,-8.7
3.7,-11.6c0.5,-3 0,-6.1 -1.5,-9.2c-2,-4.2 -4.9,-7 -8.9,-8.4c-4,-1.3 -
8.4,-0.9 -13.2,1.4c-4.4,2.1 -7.3,4.9 -8.7,8.7c-1.4,3.7 -1.9,7.7 -
1.5,12.1l-12.5,0.5c-0.6,-6 0.4,-11.9 3.1,-18c2.7,-6 7.6,-10.7 14.6,-
14c5.3,-2.5 10.5,-3.6 15.6,-3.3c5.1,0.3 9.7,1.8 13.7,4.5c4,2.8 7.1,6.5
9.3,11.2c1.6,3.4 2.3,6.8 2.2,10.3c-0.1,3.5 -0.5,6.6 -1.3,9.2c-0.8,2.6 -
1.9,5.6 -3.4,9.2c-1.7,4 -2.7,7.5 -2.9,10.6c-0.3,3 0.3,6.1
1.8,9.3l2.6,5.6l-11.4,5.3L126.3,82.2zM140.9,114.2c-2.4,-0.9 -4.1,-2.5 -
5.3,-4.9c-1.1,-2.3 -1.2,-4.6 -0.3,-7c0.9,-2.4 2.5,-4.1 4.8,-5.2c2.4,-
1.1 4.8,-1.2 7.2,-0.4c2.4,0.9 4.1,2.5 5.2,4.8c1.1,2.4 1.2,4.8 0.4,7.2c-
0.9,2.4 -2.5,4.1 -4.9,5.3C145.6,114.9 143.3,115 140.9,114.2z"/>
<path android:fillColor="#424242" android:pathData="M320.7,127.6c-
0.7,-1.7 -0.7,-3.4 0,-5.1c0.7,-1.7 1.9,-2.8 3.5,-3.5c1.7,-0.7 3.3,-0.7
5,0c1.7,0.7 2.9,1.9 3.6,3.6c0.7,1.7 0.7,3.3 0,5c-0.7,1.7 -1.9,2.9 -
3.6,3.6c-1.7,0.7 -3.4,0.7 -5.1,0C322.5,130.5 321.3,129.3
320.7,127.6zM330.2,104.7c1.3,-3.2 3,-5.6 5,-7.2c2.1,-1.6 5.3,-3.3 9.6,-
4.8c3.4,-1.3 6,-2.5 7.8,-3.7c1.8,-1.2 3.1,-2.9 4.1,-5.2c1.3,-3.1 1.3,-
5.9 0.1,-8.6c-1.2,-2.7 -3.6,-4.8 -7.1,-6.2c-3.2,-1.3 -6.1,-1.4 -8.7,-
0.4c-2.6,1.1 -4.9,2.7 -7,5l-6.2,-6.3c2.8,-3.2 6.4,-5.5 10.8,-7c4.4,-1.5
9.2,-1.2 14.3,0.9c3.8,1.6 6.9,3.7 9.2,6.5c2.3,2.8 3.7,5.9
4.2,9.3c0.5,3.4 0.1,6.8 -1.3,10.2c-1,2.4 -2.4,4.5 -4.3,6.1c-1.9,1.7 -
3.7,2.9 -5.4,3.7c-1.7,0.8 -3.8,1.7 -6.4,2.7c-2.9,1 -5.2,2.2 -6.9,3.5c-
1.7,1.3 -3,3.1 -4,5.4l-1.6,4l-8.2,-3.4L330.2,104.7z"/>
</vector>

```

android_trivia.xml

```

<vector android:height="428.5dp" android:viewportHeight="428.5"
    android:viewportWidth="507" android:width="507dp"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="#6AB343" android:pathData="M255.6,256.5c-
9.9,0 -18.4,3.5 -25.3,10.3c-6.9,6.9 -10.3,15.3 -10.3,25.3s3.4,18.4
10.3,25.5c6.9,7 15.3,10.6 25.3,10.6c9.9,0 18.4,-3.5 25.5,-10.6c7,-7
10.6,-15.5 10.6,-25.5s-3.5,-18.4 -10.6,-25.3C274.1,260 265.6,256.5
255.6,256.5z"/>
    <path android:fillColor="#6AB343" android:pathData="M332.8,63.8c-
6.6,-10.4 -15.4,-18.8 -26.4,-25.4l14.1,-25.7c1.1,-2 1.4,-4.3 0.7,-6.5c-
0.6,-2.2 -2.1,-4.1 -4.1,-5.2L317,1c-4.2,-2.2 -9.4,-0.7 -11.6,3.5l-
14.6,26.6c-11.1,-4 -23.2,-6 -36.4,-6c-12.8,0 -24.5,2 -
34.9,5.9L205,4.5c-1.1,-2 -2.9,-3.5 -5.1,-4.1c-2.2,-0.6 -4.5,-0.4 -
6.5,0.7c-2,1.1 -3.5,2.9 -4.2,5.2c-0.6,2.2 -0.4,4.5 0.7,6.5l14.3,26.1c-
2.5,1.7 -5,3.5 -7.3,5.5c-15.2,12.8 -25.4,28.1 -
30.6,45.7l47.6,19.9c2.8,-9.7 7.7,-17.7 14.9,-24.2C235.9,79.3 245,76

```

```

256,76c10.5,0 18.9,3 25.3,8.9c6.3,5.9 9.5,13.2 9.5,21.7c0,7.2 -1.9,13.5
-5.6,19c-3.7,5.5 -9.7,12 -18,19.5c-14.4,12.4 -24.3,23.5 -29.8,33.1c-
5.5,9.7 -8.3,21.1 -8.3,34.4v13.7h54.2v-6.6c0,-9.7 1.7,-17.7 5.2,-
24c3.4,-6.3 9.9,-13.9 19.2,-22.8c12.1,-11.6 21.2,-22.4 27.3,-32.5c6.1,-
10.1 9.1,-22.3 9.1,-36.6C344.2,89.2 340.4,75.8 332.8,63.8z"/>
<path android:fillColor="#6AB343"
android:pathData="M23.1,366.2h8.2l23.1,60.9h-8l-6,-
16.8H14.1L8,427.2H0L23.1,366.2zM37.9,403.6l-8.1,-22l-2.4,-6.6h-0.3l-
2.5,6.6l-8,22H37.9z"/>
<path android:fillColor="#6AB343"
android:pathData="M60.9,385h6.9v6.3h0.3c1.2,-2.2 3.1,-4 5.6,-5.4c2.6,-
1.5 5.3,-2.2 8.2,-2.2c5.2,0 9.1,1.5 11.8,4.5c2.7,3 4,7.1 4,12.3v26.7h-
7.1v-25.6c0,-7.6 -3.5,-11.4 -10.6,-11.4c-2.3,0 -4.3,0.7 -6.1,2c-1.8,1.3
-3.2,3 -4.2,5.1c-1,2.1 -1.5,4.3 -1.5,6.6v23.3h-7.2V385z"/>
<path android:fillColor="#6AB343" android:pathData="M115.7,425.6c-
3.1,-1.9 -5.5,-4.6 -7.3,-8c-1.8,-3.4 -2.7,-7.3 -2.7,-11.5c0,-4.3 0.9,-
8.1 2.7,-11.5c1.8,-3.4 4.3,-6.1 7.3,-8c3.1,-1.9 6.4,-2.9 10,-2.9c3.3,0
6.2,0.7 8.8,2.2c2.6,1.4 4.6,3.2 5.9,5.4h0.3l-0.3,-5.8v-19.1h7.1v60.9h-
6.8v-6.3h-0.3c-1.3,2.2 -3.3,4 -5.9,5.5c-2.6,1.4 -5.6,2.2 -
8.8,2.2C122.1,428.5 118.8,427.6 115.7,425.6zM133.8,420.1c2.1,-1.3 3.8,-
3.1 5.1,-5.6c1.3,-2.4 1.9,-5.2 1.9,-8.4c0,-3.2 -0.6,-6.1 -1.9,-8.5c-
1.3,-2.4 -3,-4.3 -5.1,-5.5c-2.1,-1.3 -4.4,-1.9 -6.9,-1.9c-2.5,0 -
4.8,0.7 -6.9,2c-2.1,1.3 -3.8,3.2 -5.1,5.6c-1.3,2.4 -1.9,5.2 -
1.9,8.4s0.6,6 1.9,8.4c1.3,2.4 3,4.3 5.1,5.6c2.1,1.3 4.4,2
6.9,2C129.4,422 131.7,421.3 133.8,420.1z"/>
<path android:fillColor="#6AB343"
android:pathData="M158.3,385h6.9v6.9h0.3c0.8,-2.3 2.4,-4.3 4.9,-
5.9c2.5,-1.6 4.9,-2.4 7.4,-2.4c1.8,0 3.4,0.3 4.9,0.9v7.7c-1.5,-0.9 -
3.5,-1.3 -6,-1.3c-2,0 -3.8,0.6 -5.6,1.7c-1.7,1.2 -3.1,2.7 -4.1,4.6c-
1,1.9 -1.5,4 -1.5,6.3v23.5h-7.2V385z"/>
<path android:fillColor="#6AB343" android:pathData="M194.9,425.6c-
3.3,-2 -5.9,-4.7 -7.7,-8.1c-1.8,-3.4 -2.8,-7.2 -2.8,-11.4c0,-4.2 0.9,-8
2.8,-11.4c1.8,-3.4 4.4,-6.1 7.7,-8.1c3.3,-2 7,-2.9 11.1,-2.9c4.1,0
7.9,1 11.2,2.9c3.3,2 5.9,4.7 7.7,8.1c1.8,3.4 2.8,7.2 2.8,11.4c0,4.2 -
0.9,8 -2.8,11.4c-1.8,3.4 -4.4,6.1 -7.7,8.1c-3.3,2 -7,2.9 -
11.2,2.9C201.9,428.5 198.2,427.6 194.9,425.6zM213.2,420c2.2,-1.3 4,-3.2
5.3,-5.6c1.3,-2.4 2,-5.2 2,-8.4s-0.7,-6 -2,-8.4c-1.3,-2.4 -3.1,-4.3 -
5.3,-5.6c-2.2,-1.3 -4.6,-2 -7.1,-2c-2.5,0 -4.9,0.7 -7.1,2c-2.2,1.3 -
4,3.2 -5.3,5.6c-1.3,2.4 -2,5.2 -2,8.4s0.7,6 2,8.4c1.3,2.4 3.1,4.3
5.3,5.6c2.2,1.3 4.6,2 7.1,2C208.6,422 211,421.3 213.2,420z"/>
<path android:fillColor="#6AB343" android:pathData="M235.7,374.4c-
1,-1 -1.5,-2.2 -1.5,-3.7c0,-1.4 0.5,-2.6 1.5,-3.7c1,-1 2.2,-1.5 3.7,-
1.5c1.4,0 2.6,0.5 3.7,1.5c1,1 1.5,2.2 1.5,3.7c0,1.4 -0.5,2.6 -1.5,3.7c-
1,1 -2.2,1.5 -3.7,1.5C237.9,375.9 236.7,375.4
235.7,374.4zM235.8,385h7.1v42.2h-7.1V385z"/>
<path android:fillColor="#6AB343" android:pathData="M261.4,425.6c-
3.1,-1.9 -5.5,-4.6 -7.3,-8c-1.8,-3.4 -2.7,-7.3 -2.7,-11.5c0,-4.3 0.9,-
8.1 2.7,-11.5c1.8,-3.4 4.3,-6.1 7.3,-8c3.1,-1.9 6.4,-2.9 10,-2.9c3.3,0
6.2,0.7 8.8,2.2c2.6,1.4 4.6,3.2 5.9,5.4h0.3l-0.3,-5.8v-19.1h7.1v60.9h-
6.8v-6.3h-0.3c-1.3,2.2 -3.3,4 -5.9,5.5c-2.6,1.4 -5.6,2.2 -
8.8,2.2C267.8,428.5 264.5,427.6 261.4,425.6zM279.5,420.1c2.1,-1.3 3.8,-
3.1 5.1,-5.6c1.3,-2.4 1.9,-5.2 1.9,-8.4c0,-3.2 -0.6,-6.1 -1.9,-8.5c-
1.3,-2.4 -3,-4.3 -5.1,-5.5s-4.4,-1.9 -6.9,-1.9c-2.5,0 -4.8,0.7 -6.9,2c-
2.1,1.3 -3.8,3.2 -5.1,5.6c-1.3,2.4 -1.9,5.2 -1.9,8.4s0.6,6

```

```

1.9,8.4c1.3,2.4 3,4.3 5.1,5.6c2.1,1.3 4.4,2 6.9,2C275,422 277.3,421.3
279.5,420.1z"/>
    <path android:fillColor="#424242" android:pathData="M334.3,373.1h-
17.1v-6.9h41.4v6.9h-17.1v54h-7.1V373.1z"/>
    <path android:fillColor="#424242"
android:pathData="M360.9,385h6.9v6.9h0.3c0.8,-2.3 2.4,-4.3 4.9,-
5.9c2.5,-1.6 4.9,-2.4 7.4,-2.4c1.8,0 3.4,0.3 4.9,0.9v7.7c-1.5,-0.9 -
3.5,-1.3 -6,-1.3c-2,0 -3.8,0.6 -5.6,1.7c-1.7,1.2 -3.1,2.7 -4.1,4.6c-
1,1.9 -1.5,4 -1.5,6.3v23.5h-7.2V385z"/>
    <path android:fillColor="#424242" android:pathData="M392.7,374.4c-
1,-1 -1.5,-2.2 -1.5,-3.7c0,-1.4 0.5,-2.6 1.5,-3.7c1,-1 2.2,-1.5 3.7,-
1.5c1.4,0 2.6,0.5 3.7,1.5c1,1 1.5,2.2 1.5,3.7c0,1.4 -0.5,2.6 -1.5,3.7c-
1,1 -2.2,1.5 -3.7,1.5c394.9,375.9 393.7,375.4
392.7,374.4zM392.8,385h7.1v42.2h-7.1V385z"/>
    <path android:fillColor="#424242"
android:pathData="M406.4,385h7.8l12.9,33.7h0.2l13.1,-33.7h7.7l-
17.3,42.2h-7.3L406.4,385z"/>
    <path android:fillColor="#424242" android:pathData="M454.5,374.4c-
1,-1 -1.5,-2.2 -1.5,-3.7c0,-1.4 0.5,-2.6 1.5,-3.7c1,-1 2.2,-1.5 3.7,-
1.5c1.4,0 2.6,0.5 3.7,1.5c1,1 1.5,2.2 1.5,3.7c0,1.4 -0.5,2.6 -1.5,3.7c-
1,1 -2.2,1.5 -3.7,1.5c456.7,375.9 455.5,375.4
454.5,374.4zM454.5,385h7.1v42.2h-7.1V385z"/>
    <path android:fillColor="#424242" android:pathData="M477.9,426.7c-
2.5,-1.2 -4.4,-2.9 -5.8,-5.1c-1.4,-2.2 -2.1,-4.6 -2.1,-7.4c0,-4.5 1.7,-
8 5.1,-10.5c3.4,-2.5 7.7,-3.7 13,-3.7c2.6,0 5,0.3 7.1,0.9c2.1,0.6
3.8,1.2 5,1.9v-2.2c0,-2 -0.5,-3.9 -1.6,-5.5c-1.1,-1.6 -2.5,-2.9 -4.2,-
3.7c-1.8,-0.9 -3.7,-1.3 -5.7,-1.3c-4.8,0 -8.5,2 -11.1,5.9l-6,-4c1.8,-
2.6 4.1,-4.6 7,-6.1c2.9,-1.4 6.2,-2.2 9.8,-2.2c5.8,0 10.4,1.6
13.7,4.7c3.3,3.1 5,7.3 5,12.6v26.3h-6.9V421h-0.3c-1.4,2.2 -3.2,4 -
5.5,5.4c-2.3,1.4 -5,2.2 -8.1,2.2S480.4,427.9
477.9,426.7zM493.3,420.4c2,-1.2 3.7,-2.8 5,-4.9s1.9,-4.3 1.9,-6.6c-
3.2,-2 -6.8,-3.1 -11,-3.1c-3.6,0 -6.4,0.8 -8.6,2.4c-2.1,1.6 -3.2,3.7 -
3.2,6.2c0,2.3 0.9,4.1 2.8,5.6c1.9,1.4 4.1,2.2 6.6,2.2C489.1,422.1
491.2,421.6 493.3,420.4z"/>
</vector>

```

try_again.xml

```

<vector android:height="806.5dp" android:viewportHeight="806.5"
    android:viewportWidth="534.4" android:width="534.4dp"
xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="#6AB343" android:pathData="M39,230.3c-
21.5,0 -39,16.8 -39,37.4l0,156.8c0,445.3 17.5,462 39,462c21.5,0 39,-
16.7 39,-37.5l0,-156.8C78,247.1 60.5,230.3 39,230.3M352.7,55.4l27.2,-
47.7c1.5,-2.5 0.5,-5.7 -2.1,-7.1c-2.7,-1.3 -5.9,-0.4 -7.3,2.1l-
27.5,48.2c-23.1,-9.9 -49,-15.4 -76.4,-15.4c-27.3,0 -53.2,5.5 -
76.2,15.3L162.9,2.8c-1.4,-2.5 -4.7,-3.5 -7.3,-2.1c-2.6,1.4 -3.6,4.5 -
2.1,7.1l27.2,47.7c-53.5,26.5 -89.6,76.9 -89.6,134.9l351,0C442.1,132.3
406.1,82 352.7,55.4M186.7,166.5c-8.1,0 -14.7,-6.3 -14.7,-14.1c0,-7.8
6.6,-14.2 14.7,-14.2c8.1,0 14.7,6.4 14.7,14.2C201.5,160.2 194.9,166.5
186.7,166.5M346.6,166.5c-8.1,0 -14.7,-6.3 -14.7,-14.1c0,-7.7 6.6,-14.1
14.7,-14.2c8.1,0 14.7,6.4 14.7,14.2C361.3,160.1 354.7,166.5
346.6,166.5M93.1,202.8l0.1,243c0,22.1 18.6,39.9

```



```

41.6,40128.3,010,83c0,20.7 17.5,37.4 38.9,37.4c21.5,0 39,-16.8 39,-
37.510,-83152.6,010,83c0,20.6 17.5,37.5 39,37.4c21.5,0 39,-16.8 39,-
37.510,-82.9128.4,0c22.9,0 41.6,-17.9 41.6,-4010,-
243L93.1,202.8zM534.4,267.7c0,-20.7 -17.4,-37.4 -39,-37.4c-21.5,0 -
39,16.8 -39,37.510,156.8c0,20.7 17.4,37.4 39,37.4c21.5,0 39,-16.7 39,-
37.5L534.4,267.7z"/>
    <path android:fillColor="#FF000000"
android:pathData="M28.8,698.2H2.7v-
10.1h63.2v10.1H39.8v79.3H28.8V698.2z"/>
    <path android:fillColor="#FF000000"
android:pathData="M69.5,715.5h10.5v10.1h0.5c1.2,-3.4 3.7,-6.3 7.5,-
8.6c3.8,-2.3 7.5,-3.5 11.2,-3.5c2.7,0 5.2,0.4 7.5,1.2v11.4c-2.3,-1.2 -
5.4,-1.9 -9.1,-1.9c-3,0 -5.9,0.9 -8.5,2.6c-2.6,1.7 -4.7,4 -6.3,6.8c-
1.6,2.8 -2.3,5.9 -2.3,9.3v34.6H69.5V715.5z"/>
    <path android:fillColor="#FF000000"
android:pathData="M139.6,773.5l-26.8,-58h12l20,45.6h0.3l19.4,-45.6h12l-
40.3,88.9h-11.3L139.6,773.5z"/>
    <path android:fillColor="#FF000000"
android:pathData="M240.7,688.1h12.5l35.4,89.4h-12.2l-9.2,-24.6H227l-
9.4,24.6h-12.2L240.7,688.1zM263.2,742.9l-12.3,-32.2l-3.6,-9.6h-0.5l-
3.8,9.6l-12.2,32.2H263.2z"/>
    <path android:fillColor="#FF000000"
android:pathData="M306.4,801.1c-4.9,-3.6 -8.3,-7.7 -10,-12.5l10.3,-
4.1c1.3,3.7 3.6,6.6 7,8.9c3.3,2.3 7.3,3.4 11.9,3.4c6.8,0 12.1,-1.9
15.8,-5.7c3.7,-3.8 5.5,-9.2 5.5,-16v-6.6h-0.5c-2.1,3.2 -5.1,5.8 -
9,7.9c-3.9,2.1 -8.3,3.1 -13.3,3.1c-5.5,0 -10.5,-1.4 -15.2,-4.3c-4.7,-
2.8 -8.4,-6.8 -11.2,-11.8c-2.8,-5 -4.2,-10.7 -4.2,-16.9s1.4,-11.9 4.2,-
16.9c2.8,-5 6.5,-8.9 11.2,-11.8c4.7,-2.8 9.8,-4.3 15.2,-4.3c4.9,0 9.4,1
13.3,3.1c3.9,2.1 6.9,4.7 9,7.9h0.5v-9h10.5V775c0,6.8 -1.4,12.6 -
4.2,17.4c-2.8,4.7 -6.6,8.3 -11.4,10.6c-4.8,2.3 -10.2,3.5 -
16.3,3.5C317.7,806.5 311.3,804.7 306.4,801.1zM336.3,767.1c3.2,-1.9
5.8,-4.6 7.7,-8.1c2,-3.5 2.9,-7.7 2.9,-12.4s-1,-8.9 -2.9,-12.5c-2,-3.6
-4.5,-6.3 -7.7,-8.1c-3.2,-1.8 -6.7,-2.8 -10.5,-2.8c-3.8,0 -7.3,0.9 -
10.5,2.8c-3.2,1.9 -5.8,4.6 -7.7,8.1c-1.9,3.5 -2.9,7.7 -2.9,12.4s1,8.9
2.9,12.4c2,3.5 4.5,6.2 7.7,8.1c3.2,1.9 6.7,2.8 10.5,2.8C329.6,769.9
333.1,768.9 336.3,767.1z"/>
    <path android:fillColor="#FF000000"
android:pathData="M381.2,776.8c-3.8,-1.8 -6.7,-4.3 -8.8,-7.5c-2.1,-3.2
-3.2,-6.8 -3.2,-10.8c0,-6.6 2.6,-11.7 7.7,-15.4c5.2,-3.7 11.8,-5.5
19.8,-5.5c4,0 7.6,0.4 10.8,1.2c3.2,0.8 5.8,1.7 7.7,2.7v-3.2c0,-3 -0.8,-
5.7 -2.4,-8.1c-1.6,-2.4 -3.8,-4.2 -6.4,-5.5c-2.7,-1.3 -5.6,-1.9 -8.7,-
1.9c-7.4,0 -13,2.9 -16.9,8.6l-9.2,-5.9c2.7,-3.8 6.2,-6.8 10.7,-
8.9c4.4,-2.1 9.4,-3.2 15,-3.2c8.8,0 15.8,2.3 20.9,6.9c5.1,4.6 7.7,10.7
7.7,18.5v38.6h-10.5v-9.1h-0.5c-2.1,3.2 -4.9,5.8 -8.5,7.9c-3.6,2.1 -
7.7,3.2 -12.3,3.2C389.2,779.5 385,778.6 381.2,776.8zM404.7,767.5c3.1,-
1.7 5.7,-4.1 7.6,-7.1s2.9,-6.2 2.9,-9.7c-4.9,-3 -10.4,-4.5 -16.8,-4.5c-
5.5,0 -9.8,1.2 -13.1,3.6c-3.2,2.4 -4.9,5.4 -4.9,9.1c0,3.3 1.4,6.1
4.3,8.2c2.9,2.1 6.2,3.2 10,3.2C398.2,770.1 401.5,769.3 404.7,767.5z"/>
    <path android:fillColor="#FF000000" android:pathData="M441.7,700c-
1.6,-1.5 -2.3,-3.3 -2.3,-5.4c0,-2.1 0.8,-3.9 2.3,-5.4c1.6,-1.5 3.4,-2.2
5.6,-2.2c2.2,0 4,0.7 5.6,2.2c1.6,1.5 2.3,3.3 2.3,5.4c0,2.1 -0.8,3.9 -
2.3,5.4c-1.5,1.5 -3.4,2.2 -5.7,2.2C445.1,702.3 443.3,701.5
441.7,700zM441.8,715.5h10.9v62h-10.9V715.5z"/>
    <path android:fillColor="#FF000000"

```

```

android:pathData="M469.9,715.5h10.5v9.2h0.5c1.8,-3.2 4.7,-5.8 8.6,-
8c3.9,-2.2 8.1,-3.2 12.5,-3.2c7.9,0 13.9,2.2 18,6.6c4.1,4.4 6.2,10.5
6.2,18.1v39.2h-10.9v-37.6c0,-11.2 -5.4,-16.7 -16.2,-16.7c-3.5,0 -6.6,1
-9.4,2.9c-2.8,1.9 -4.9,4.4 -6.4,7.5c-1.5,3.1 -2.3,6.3 -2.3,9.7v34.2h-
11.1v715.5z"/>
</vector>

```

you_win.xml

```

<vector android:height="839.3dp" android:viewportHeight="839.3"
    android:viewportWidth="936.8" android:width="936.8dp"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="#6AB343"
        android:pathData="M269.6,269.7c15.2,-15.2 15.2,-39.9 0,-
55.1L154.2,99.2C139,84 114.3,84 99.1,99.2c-15.2,15.2 -15.2,39.9
0,55.1L115.4,115.4C229.7,284.9 254.4,284.9
269.6,269.7M554.5,57.7L581.7,8c1.5,-2.6 0.5,-5.9 -2.1,-7.4c-2.7,-1.4 -
5.9,-0.5 -7.3,2.2L544.8,53c-23.1,-10.3 -49,-16.1 -76.4,-16c-27.3,0 -
53.2,5.7 -76.2,16L364.7,2.9c-1.4,-2.6 -4.7,-3.6 -7.3,-2.2c-2.6,1.4 -
3.6,4.7 -2.1,7.3L27.2,49.6C329,85.2 292.9,137.7
292.9,198L351,0C644,137.7 607.9,85.3 554.5,57.7M388.6,134.4c-8.1,0 -
14.7,-6.6 -14.7,-14.7c0,-8.1 6.6,-14.7 14.7,-14.7c8.1,0 14.7,6.6
14.7,14.7C403.3,127.8 396.7,134.4 388.6,134.4M548.4,134.4c-8.1,0 -
14.7,-6.6 -14.7,-14.7c0,-8.1 6.6,-14.7 14.7,-14.7c8.1,0 14.7,6.7
14.7,14.8C563.1,127.8 556.5,134.4 548.4,134.4M294.9,211L10.1,252.9c0,23
18.6,41.6 41.6,41.6L28.3,0L0,86.3c0,21.5 17.5,39 38.9,39c21.5,0 39,-
17.5 39,-39L0,-86.3L52.6,0L0,86.3c0,21.5 17.5,39 39,39c21.5,0 39,-17.5
39,-39L0,-86.3L28.4,0c22.9,0 41.6,-18.6 41.6,-41.6L0,-
252.9L294.9,211zM669.7,269.7c15.2,15.2 39.9,15.2 55.1,0L115.4,-
115.4c15.3,-15.2 15.2,-39.9 0,-55.1C825,84 800.4,84
785.1,99.2L669.7,214.6C654.5,229.8 654.5,254.5 669.7,269.7"/>
    <path android:fillColor="#FF000000" android:pathData="M23.7,804.8c-
7.4,-4.2 -13.2,-10.1 -17.4,-17.5C2.1,779.8 0,771.6 0,762.6c0,-9 2.1,-
17.2 6.3,-24.7c4.2,-7.5 10,-13.3 17.4,-17.5c7.4,-4.2 15.5,-6.4 24.4,-
6.4c7,0 13.4,1.3 19.2,4c5.8,2.6 10.7,6.4 14.9,11.2L-7.8,7.7c-3.5,-4.2 -
7.3,-7.4 -11.6,-9.4c-4.3,-2 -9.2,-3 -14.6,-3c-6.7,0 -12.8,1.6 -
18.5,4.7c-5.6,3.2 -10.1,7.6 -13.5,13.4c-3.3,5.8 -5,12.4 -5,20s1.7,14.2
5,20c3.3,5.8 7.8,10.2 13.5,13.4c5.6,3.2 11.8,4.7 18.5,4.7c11.4,0 21,-
4.6 28.9,-13.9L7.9,7.8c-4.2,5.1 -9.5,9.2 -15.9,12.2c-6.3,3 -13.3,4.5 -
20.9,4.5C39.2,811.2 31,809.1 23.7,804.8z"/>
    <path android:fillColor="#FF000000" android:pathData="M108,806.7c-
5,-3 -9,-7.1 -11.8,-12.3c-2.8,-5.2 -4.2,-11.1 -4.2,-17.5c0,-6.4 1.4,-
12.2 4.2,-17.5c2.8,-5.2 6.7,-9.4 11.8,-12.4c5,-3 10.7,-4.5 17,-
4.5c6.3,0 12,1.5 17.1,4.5c5.1,3 9,7.1 11.8,12.4c2.8,5.2 4.2,11.1
4.2,17.5c0,6.4 -1.4,12.2 -4.2,17.5c-2.8,5.2 -6.8,9.4 -11.8,12.3c-5.1,3
-10.8,4.5 -17.1,4.5C118.7,811.2 113.1,809.7 108,806.7zM136,798.2c3.4,-2
6.1,-4.8 8.1,-8.5c2,-3.7 3.1,-8 3.1,-12.8c0,-4.9 -1,-9.1 -3.1,-12.8c-
2,-3.7 -4.7,-6.5 -8.1,-8.5c-3.4,-2 -7,-3 -10.9,-3c-3.8,0 -7.4,1 -
10.8,3c-3.4,2 -6.1,4.8 -8.1,8.5c-2,3.7 -3.1,8 -3.1,12.8c0,4.9 1,9.1
3.1,12.8c2,3.7 4.7,6.5 8.1,8.5c3.4,2 7,3 10.8,3C129,801.2 132.6,800.2
136,798.2z"/>
    <path android:fillColor="#FF000000"
        android:pathData="M169.4,744.6h10.5v9.6h0.5c1.8,-3.3 4.7,-6.1 8.6,-

```



```

8.3c3.9,-2.3 8.1,-3.4 12.5,-3.4c7.9,0 13.9,2.3 18,6.9c4.1,4.6 6.2,10.9
6.2,18.8v40.8h-10.9V770c0,-11.6 -5.4,-17.4 -16.2,-17.4c-3.5,0 -6.6,1 -
9.4,3c-2.8,2 -4.9,4.6 -6.4,7.8c-1.5,3.2 -2.3,6.6 -2.3,10.1v35.6h-
11V744.6z"/>
<path android:fillColor="#FF000000" android:pathData="M250,833.7c-
4.9,-3.7 -8.3,-8.1 -10,-13.1c10.3,-4.3c1.3,3.8 3.6,6.9 7,9.3c3.3,2.4
7.3,3.6 11.9,3.6c6.8,0 12.1,-2 15.8,-6c3.7,-4 5.5,-9.5 5.5,-16.7v-6.9h-
0.5c-2.1,3.3 -5.1,6 -9,8.2c-3.9,2.2 -8.3,3.2 -13.3,3.2c-5.5,0 -10.5,-
1.5 -15.2,-4.4c-4.7,-3 -8.4,-7 -11.2,-12.3c-2.8,-5.2 -4.2,-11.1 -4.2,-
17.6s1.4,-12.4 4.2,-17.6c2.8,-5.2 6.5,-9.3 11.2,-12.3c4.7,-3 9.8,-4.4
15.2,-4.4c4.9,0 9.4,1.1 13.3,3.2c3.9,2.2 6.9,4.9 9,8.2h0.5v-
9.4H301v61.9c0,7.1 -1.4,13.1 -4.2,18.1c-2.8,4.9 -6.6,8.6 -11.4,11c-
4.8,2.4 -10.2,3.6 -16.3,3.6C261.3,839.3 254.9,837.4
250,833.7zM279.9,798.2c3.2,-2 5.8,-4.8 7.7,-8.4c2,-3.7 2.9,-8 2.9,-
12.9c0,-5 -1,-9.3 -2.9,-13c-1.9,-3.7 -4.5,-6.5 -7.7,-8.4c-3.2,-1.9 -
6.7,-2.9 -10.5,-2.9c-3.8,0 -7.3,1 -10.5,2.9c-3.2,2 -5.8,4.8 -7.7,8.4c-
2,3.7 -2.9,8 -2.9,12.9c0,5 1,9.3 2.9,12.9c1.9,3.7 4.5,6.5 7.7,8.4c3.2,2
6.7,2.9 10.5,2.9C273.2,801.2 276.7,800.2 279.9,798.2z"/>
<path android:fillColor="#FF000000"
android:pathData="M317.2,744.6h10.5v10.5h0.5c1.2,-3.6 3.7,-6.5 7.5,-
9c3.8,-2.4 7.5,-3.6 11.2,-3.6c2.7,0 5.2,0.4 7.5,1.3v11.8c-2.3,-1.3 -
5.4,-2 -9.1,-2c-3,0 -5.9,0.9 -8.5,2.7c-2.6,1.8 -4.7,4.1 -6.3,7.1c-1.6,3
-2.3,6.2 -2.3,9.6v36h-11.1V744.6z"/>
<path android:fillColor="#FF000000"
android:pathData="M370.4,808.4c-3.8,-1.9 -6.7,-4.5 -8.8,-7.8c-2.1,-3.3
-3.2,-7.1 -3.2,-11.2c0,-6.8 2.6,-12.2 7.7,-16c5.2,-3.8 11.8,-5.7 19.8,-
5.7c4,0 7.6,0.4 10.8,1.3c3.2,0.9 5.8,1.8 7.7,2.9v-3.4c0,-3.1 -0.8,-5.9
-2.4,-8.4c-1.6,-2.5 -3.8,-4.4 -6.4,-5.7c-2.7,-1.3 -5.6,-2 -8.7,-2c-
7.4,0 -13,3 -16.9,9.1-9.2,-6.1c2.7,-4 6.2,-7.1 10.7,-9.3s9.4,-3.3 15,-
3.3c8.8,0 15.8,2.4 20.9,7.1c5.1,4.8 7.7,11.2 7.7,19.2v40.2h-10.5v-9.5h-
0.5c-2.1,3.3 -4.9,6 -8.4,8.3c-3.6,2.2 -7.7,3.3 -12.3,3.3C378.4,811.2
374.2,810.3 370.4,808.4zM393.9,798.7c3.1,-1.8 5.7,-4.3 7.6,-7.4c1.9,-
3.1 2.9,-6.5 2.9,-10.1c-4.9,-3.1 -10.4,-4.7 -16.8,-4.7c-5.5,0 -9.8,1.2
-13.1,3.7s-4.9,5.6 -4.9,9.4c0,3.5 1.4,6.3 4.3,8.5s6.2,3.3
10,3.3C387.5,801.4 390.8,800.5 393.9,798.7z"/>
<path android:fillColor="#FF000000"
android:pathData="M446.4,809.9c-2.2,-0.9 -4.1,-2.1 -5.7,-3.6c-1.7,-1.7
-3,-3.6 -3.8,-5.9c-0.8,-2.3 -1.2,-4.9 -1.2,-8v-37.7h-11.4v-10h11.4v-
19.2h10.9v19.2h15.9v10h-15.9v35.1c0,3.7 0.7,6.5 2.2,8.2c1.5,2 3.7,2.9
6.8,2.9c2.7,0 5,-0.6 7,-1.8v10.7c-1.4,0.5 -2.7,0.9 -4,1.1c-1.3,0.2 -
2.9,0.3 -5,0.3C451,811.2 448.6,810.7 446.4,809.9z"/>
<path android:fillColor="#FF000000"
android:pathData="M480.9,804.3c-4.1,-4.6 -6.2,-11 -6.2,-19.1v-
40.6h11v38.7c0,11.9 5.3,17.8 16,17.8c3.6,0 6.7,-1 9.6,-3c2.8,-2 5,-4.6
6.5,-7.8c1.5,-3.2 2.3,-6.6 2.3,-10.1v-35.6H531v64.5h-10.4v-9.6h-0.5c-
1.9,3.3 -4.8,6.1 -8.6,8.3c-3.9,2.3 -8,3.4 -12.4,3.4C491.1,811.2
485,808.9 480.9,804.3z"/>
<path android:fillColor="#FF000000"
android:pathData="M547.3,716h11.1v93.1h-11.1V716z"/>
<path android:fillColor="#FF000000"
android:pathData="M582.1,808.4c-3.8,-1.9 -6.7,-4.5 -8.8,-7.8c-2.1,-3.3
-3.2,-7.1 -3.2,-11.2c0,-6.8 2.6,-12.2 7.7,-16c5.2,-3.8 11.8,-5.7 19.8,-
5.7c4,0 7.6,0.4 10.8,1.3c3.2,0.9 5.8,1.8 7.7,2.9v-3.4c0,-3.1 -0.8,-5.9
-2.4,-8.4c-1.6,-2.5 -3.8,-4.4 -6.4,-5.7c-2.7,-1.3 -5.6,-2 -8.7,-2c-

```

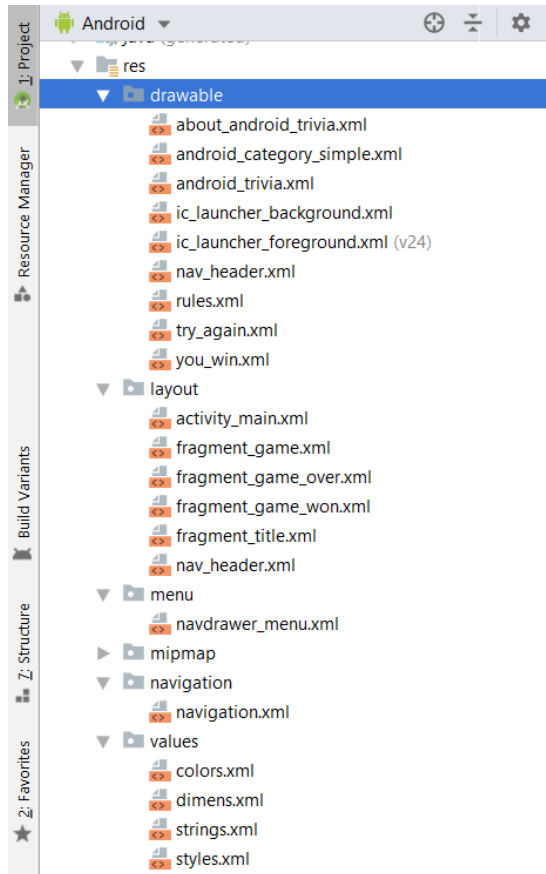
```

7.4,0 -13,3 -16.9,91-9.2,-6.1c2.7,-4 6.2,-7.1 10.7,-9.3s9.4,-3.3 15,-
3.3c8.8,0 15.8,2.4 20.9,7.1c5.1,4.8 7.7,11.2 7.7,19.2v40.2h-10.5v-9.5h-
0.5c-2.1,3.3 -4.9,6 -8.5,8.3c-3.6,2.2 -7.7,3.3 -12.3,3.3C590.1,811.2
585.8,810.3 582.1,808.4zM605.5,798.7c3.1,-1.8 5.7,-4.3 7.6,-7.4c2,-3.1
2.9,-6.5 2.9,-10.1c-4.9,-3.1 -10.4,-4.7 -16.8,-4.7c-5.5,0 -9.8,1.2 -
13.1,3.7s-4.9,5.6 -4.9,9.4c0,3.5 1.4,6.3 4.3,8.5c2.9,2.2 6.2,3.3
10,3.3C599.1,801.4 602.4,800.5 605.5,798.7z"/>
<path android:fillColor="#FF000000" android:pathData="M658,809.9c-
2.2,-0.9 -4.1,-2.1 -5.7,-3.6c-1.7,-1.7 -3,-3.6 -3.8,-5.9c-0.8,-2.3 -
1.2,-4.9 -1.2,-8v-37.7h-11.4v-10h11.4v-19.2h10.9v19.2H674v10h-
15.9v35.1c0,3.7 0.7,6.5 2.2,8.2c1.5,2 3.7,2.9 6.8,2.9c2.7,0 5,-0.6 7,-
1.8v10.7c-1.4,0.5 -2.7,0.9 -4,1.1c-1.3,0.2 -2.9,0.3 -5,0.3C662.6,811.2
660.2,810.7 658,809.9z"/>
<path android:fillColor="#FF000000"
android:pathData="M688.5,728.5c-1.6,-1.6 -2.3,-3.4 -2.3,-5.6c0,-2.2
0.8,-4 2.3,-5.6c1.6,-1.6 3.4,-2.3 5.6,-2.3c2.2,0 4,0.8 5.6,2.3c1.6,1.6
2.3,3.4 2.3,5.6c0,2.2 -0.8,4 -2.3,5.6c-1.5,1.6 -3.4,2.3 -
5.7,2.3C691.9,730.8 690,730.1 688.5,728.5zM688.6,744.6h10.9v64.5h-
10.9V744.6z"/>
<path android:fillColor="#FF000000"
android:pathData="M728.4,806.7c-5,-3 -9,-7.1 -11.8,-12.3c-2.8,-5.2 -
4.2,-11.1 -4.2,-17.5c0,-6.4 1.4,-12.2 4.2,-17.5c2.8,-5.2 6.7,-9.4
11.8,-12.4c5,-3 10.7,-4.5 17,-4.5c6.3,0 12,1.5 17.1,4.5s9,7.1
11.8,12.4c2.8,5.2 4.2,11.1 4.2,17.5c0,6.4 -1.4,12.2 -4.2,17.5c-2.8,5.2
-6.8,9.4 -11.8,12.3c-5.1,3 -10.8,4.5 -17.1,4.5C739.1,811.2 733.4,809.7
728.4,806.7zM756.3,798.2c3.4,-2 6.1,-4.8 8.1,-8.5c2,-3.7 3.1,-8 3.1,-
12.8c0,-4.9 -1,-9.1 -3.1,-12.8c-2,-3.7 -4.7,-6.5 -8.1,-8.5c-3.4,-2 -7,-
3 -10.9,-3c-3.8,0 -7.4,1 -10.8,3c-3.4,2 -6.1,4.8 -8.1,8.5c-2,3.7 -3.1,8
-3.1,12.8c0,4.9 1,9.1 3.1,12.8c2,3.7 4.7,6.5 8.1,8.5c3.4,2 7,3
10.8,3C749.3,801.2 753,800.2 756.3,798.2z"/>
<path android:fillColor="#FF000000"
android:pathData="M789.7,744.6h10.5v9.6h0.5c1.8,-3.3 4.7,-6.1 8.6,-
8.3c3.9,-2.3 8.1,-3.4 12.5,-3.4c7.9,0 13.9,2.3 18,6.9c4.1,4.6 6.2,10.9
6.2,18.8v40.8h-10.9V770c0,-11.6 -5.4,-17.4 -16.2,-17.4c-3.5,0 -6.6,1 -
9.4,3c-2.8,2 -4.9,4.6 -6.4,7.8c-1.5,3.2 -2.3,6.6 -2.3,10.1v35.6h-
11.1V744.6z"/>
<path android:fillColor="#FF000000" android:pathData="M866.4,806c-
4.8,-3.5 -8.1,-7.8 -10,-12.919.8,-4.3c1.7,4.1 4.2,7.2 7.3,9.4c3.2,2.2
6.6,3.2 10.3,3.2c4.2,0 7.6,-0.9 10.3,-2.7c2.7,-1.8 4.1,-4 4.1,-6.6c0,-
2.5 -1,-4.6 -3.1,-6.2c-2,-1.6 -5.5,-3.1 -10.5,-4.31-8.8,-2.2c-4.9,-1.1
-9,-3.2 -12.4,-6.1c-3.4,-2.9 -5.1,-6.8 -5.1,-11.7c0,-4 1.1,-7.4 3.4,-
10.3c2.3,-2.9 5.3,-5 9.2,-6.5c3.8,-1.5 8,-2.2 12.5,-2.2c5.5,0 10.6,1.3
15.1,3.8c4.5,2.6 7.8,6.2 9.7,10.91-9.8,4.2c-1.4,-3.1 -3.5,-5.4 -6.3,-
6.9c-2.8,-1.5 -6,-2.2 -9.4,-2.2c-3.4,0 -6.4,0.8 -9.2,2.5c-2.7,1.6 -
4.1,3.8 -4.1,6.4c0,2.3 0.9,4 2.7,5.3c1.8,1.3 4.6,2.5
8.5,3.519.6,2.3c6.4,1.6 11.2,4.1 14.4,7.3c3.2,3.2 4.7,7.1
4.7,11.6c0,3.7 -1.1,7.1 -3.2,10.1c-2.2,3 -5.2,5.4 -9.1,7.2c-3.9,1.7 -
8.3,2.6 -13.3,2.6C877,811.2 871.2,809.4 866.4,806z"/>
<path android:fillColor="#FF000000"
android:pathData="M922.7,806.7c-1.6,-1.6 -2.4,-3.6 -2.4,-5.9c0,-2.3
0.8,-4.2 2.4,-5.8c1.6,-1.6 3.6,-2.4 5.9,-2.4c2.3,0 4.2,0.8
5.8,2.4c1.6,1.6 2.4,3.5 2.4,5.8c0,2.3 -0.8,4.3 -2.4,5.9c-1.6,1.6 -
3.5,2.4 -5.8,2.4C926.2,809.1 924.3,808.3

```

```
922.7,806.7zM923.1,747.6V716H934v31.6l-1.3,34.1h-8.5L923.1,747.6z"/>
</vector>
```

19. Sekarang kita punya struktur file sebagai berikut



20. Kemudian, buat file kotlin untuk fragment.

GameFragment.kt

```
package akakom.nomhs.kotlin.belajarnavigasi2

import
akakom.nomhs.kotlin.belajarnavigasi2.databinding.FragmentGameBinding
import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import androidx.databinding.DataBindingUtil
import androidx.fragment.app.Fragment
import androidx.navigation.findNavController

class GameFragment : Fragment() {
    override fun onCreateView(inflater:
        LayoutInflater, container: ViewGroup?,
        savedInstanceState: Bundle?): View? {
```

```

val binding = DataBindingUtil.inflate<FragmentGameBinding>(
    inflater, R.layout.fragment_game, container, false)
binding.submitButton.setOnClickListener { view: View ->
    val checkedId =
        binding.questionRadioGroup.checkedRadioButtonId
    if (-1 != checkedId) {
        var answerIndex = 0
        when (checkedId) {
            R.id.firstAnswerRadioButton -> answerIndex = 0
            R.id.secondAnswerRadioButton -> answerIndex = 1
            R.id.thirdAnswerRadioButton -> answerIndex = 2
            R.id.fourthAnswerRadioButton -> answerIndex = 3
        }
        if (answerIndex == 1) {
            view.findNavController()
                .navigate(R.id.action_gameFragment_to_gameWonFragment)
        } else {
            view.findNavController()
                .navigate(R.id.action_gameFragment_to_gameOverFragment)
        }
    }
}
return binding.root
}
}

```

GameOverFragment.kt

```

package akakom.nomhs.kotlin.belajarnavigasi2

import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import androidx.databinding.DataBindingUtil
import androidx.fragment.app.Fragment
import androidx.navigation.findNavController
import akakom.nomhs.kotlin.belajarnavigasi2
    .databinding.FragmentGameOverBinding

class GameOverFragment : Fragment() {
    override fun onCreateView(inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?): View? {
        val binding: FragmentGameOverBinding = DataBindingUtil.inflate(
            inflater, R.layout.fragment_game_over, container, false)
        binding.tryAgainButton.setOnClickListener { view: View ->
            view.findNavController()
                .navigate(R.id.action_gameOverFragment_to_gameFragment)
        }
        return binding.root
    }
}

```

```
}  
}
```

GameWonFragment.kt

```
package akakom.nomhs.kotlin.belajarnavigasi2  
  
import akakom.nomhs.kotlin.belajarnavigasi2  
    .databinding.FragmentGameWonBinding  
import android.os.Bundle  
import android.view.LayoutInflater  
import android.view.View  
import android.view.ViewGroup  
import androidx.databinding.DataBindingUtil  
import androidx.fragment.app.Fragment  
import androidx.navigation.findNavController  
  
class GameWonFragment : Fragment() {  
    override fun onCreateView(inflater: LayoutInflater,  
        container: ViewGroup?,  
        savedInstanceState: Bundle?): View? {  
        val binding: FragmentGameWonBinding = DataBindingUtil.inflate(  
            inflater, R.layout.fragment_game_won, container, false)  
        binding.nextMatchButton.setOnClickListener { view: View ->  
            view.findNavController().  
                navigate(R.id.action_gameWonFragment_to_titleFragment)  
        }  
        return binding.root  
    }  
}
```

TitleFragment.kt

```
package akakom.nomhs.kotlin.belajarnavigasi2  
  
import android.os.Bundle  
import android.view.*  
import androidx.fragment.app.Fragment  
import androidx.databinding.DataBindingUtil  
import androidx.navigation.findNavController  
import akakom.nomhs.kotlin.belajarnavigasi2  
    .databinding.FragmentTitleBinding  
  
class TitleFragment : Fragment() {  
    override fun onCreateView(inflater: LayoutInflater,  
        container: ViewGroup?,  
        savedInstanceState: Bundle?): View? {  
        val binding = DataBindingUtil  
            .inflate<FragmentTitleBinding>(inflater,  
                R.layout.fragment_title, container, false)  
        binding.playButton.setOnClickListener { view : View ->  
            view.findNavController()  
        }  
    }  
}
```

```

        .navigate(R.id.action_titleFragment_to_gameFragment)
    }
    return binding.root
}
}

```

21. Kemudian, buka file **navigation**, buat sehingga tampilan menjadi seperti langkah 1. Cara memasukkan fragment dan menghubungkan action, lihat pada dasar teori. Koding akhirnya adalah sebagai berikut.

```

<?xml version="1.0" encoding="utf-8"?>
<navigation xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/navigation"
    app:startDestination="@id/titleFragment">

    <fragment
        android:id="@+id/titleFragment"
        android:name="
            akakom.nomhs.kotlin.belajarnavigasi2.TitleFragment"
        android:label="Intro"
        tools:layout="@layout/fragment_title">
        <action
            android:id="@+id/action_titleFragment_to_gameFragment"
            app:destination="@id/gameFragment" />
    </fragment>
    <fragment
        android:id="@+id/gameFragment"
        android:name="
            akakom.nomhs.kotlin.belajarnavigasi2.GameFragment"
        android:label="Game"
        tools:layout="@layout/fragment_game">
        <action
            android:id="@+id/action_gameFragment_to_gameOverFragment"
            app:destination="@id/gameOverFragment"
            app:popUpTo="@+id/gameFragment"
            app:popUpToInclusive="true" />
        <action
            android:id="@+id/action_gameFragment_to_gameWonFragment"
            app:destination="@id/gameWonFragment"
            app:popUpTo="@+id/gameFragment"
            app:popUpToInclusive="true" />
    </fragment>
    <fragment
        android:id="@+id/gameOverFragment"
        android:name="
            akakom.nomhs.kotlin.belajarnavigasi2.GameOverFragment"
        android:label="Game Failed"
        tools:layout="@layout/fragment_game_over">
        <action
            android:id="@+id/action_gameOverFragment_to_gameFragment"
            app:destination="@id/gameFragment"
            app:popUpTo="@+id/titleFragment"

```

```

        app:popUpToInclusive="false" />
    </fragment>
    <fragment
        android:id="@+id/gameWonFragment"
        android:name=
            "akakom.nomhs.kotlin.belajarnavigasi2.GameWonFragment"
        android:label="Game Won"
        tools:layout="@layout/fragment_game_won">
        <action
            android:id="@+id/action_gameWonFragment_to_titleFragment"
            app:destination="@+id/titleFragment"
            app:popUpTo="@+id/titleFragment"
            app:popUpToInclusive="false" />
        </fragment>
    </navigation>

```

22. Ubahlah **MainActivity.kt** menjadi sebagai berikut.

```

package akakom.nomhs.kotlin.belajarnavigasi2

import
akakom.nomhs.kotlin.belajarnavigasi2.databinding.ActivityMainBinding
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import androidx.databinding.DataBindingUtil
import androidx.drawerlayout.widget.DrawerLayout
import androidx.navigation.findNavController
import androidx.navigation.ui.NavigationUI

class MainActivity : AppCompatActivity() {
    private lateinit var drawerLayout: DrawerLayout
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)

        val binding = DataBindingUtil
            .setContentView<ActivityMainBinding>(this,
                R.layout.activity_main)
        drawerLayout = binding.drawerLayout

        val navController =
            this.findNavController(R.id.myNavHostFragment)
            NavigationUI.setupActionBarWithNavController
                (this, navController, drawerLayout)
            NavigationUI.setupWithNavController(binding
                .navView, navController)
    }

    override fun onSupportNavigateUp(): Boolean {
        val navController = this.findNavController
            (R.id.myNavHostFragment)
        return NavigationUI.navigateUp(navController, drawerLayout)
    }
}

```

```
}  
}
```

23. Jalankan dan amati hasilnya.



LATIHAN

1. Modifikasilah aplikasi dengan menambahkan detail data pemilih nomor telepon.



TUGAS

1. Buat aplikasi baru dengan mengembangkan project diatas



REFERENSI

1. <https://kotlinlang.org/docs/reference/>
2. <https://developer.android.com/kotlin>
3. <https://developer.android.com/courses/kotlin-android-fundamentals/toc>
4. <https://codelabs.developers.google.com/android-kotlin-fundamentals/>
5. <https://developer.android.com/kotlin/learn>
6. <https://developer.android.com/kotlin/resources>