

Dynamically Create Admob Banner and Interstitial Ads

activity_main.xml file

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:ads="http://schemas.android.com/apk/res-auto"
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     <FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
10        android:id="@+id/fragment_container"
11        android:layout_width="match_parent"
12        android:layout_height="wrap_content"
13        android:layout_above="@+id/navigation"
14        android:layout_alignParentTop="true"
15        android:background="@color/colorMain" />
16
17     <android.support.design.widget.BottomNavigationView
18        android:id="@+id/navigation"
19        android:layout_width="match_parent"
20        android:layout_height="wrap_content"
21        android:layout_above="@+id/linearAdView"
22        android:layout_marginStart="0dp"
23        android:layout_marginEnd="0dp"
24        android:background="?android:attr/windowBackground"
25        app:menu="@menu/navigation" />
26
27
28     <LinearLayout
29        android:id="@+id/linearAdView"
30        android:layout_width="match_parent"
31        android:layout_height="wrap_content"
32        android:layout_alignParentBottom="true"
33        android:layout_centerHorizontal="true"
34        android:orientation="vertical">
35
36 </LinearLayout>
37
38
39 </RelativeLayout>
```

MainActivity Class

```
1 public class MainActivity extends AppCompatActivity {
2     private DBHelper dbHelper;
3     private TextView mTextMessage;
4
5
6     @Override
7     protected void onCreate(Bundle savedInstanceState) {
8         super.onCreate(savedInstanceState);
```

```

9         setContentView(R.layout.activity_main);
10        AdmobHelper.showAdmob(this);
11        AdmobHelper.showInterstitialAds(getApplicationContext());
12        mTextMessage = (TextView) findViewById(R.id.message);
13        BottomNavigationView navigation = (BottomNavigationView)
14        findViewById(R.id.navigation);
15        navigation.setOnNavigationItemSelectedListener(mOnNavigationItemSelectedListener);
16    }
}

```

AdmobHelper Class

```

1  package com.codesenior.radyom.helper;
2
3  import android.content.Context;
4  import android.support.v7.app.AppCompatActivity;
5  import android.view.View;
6  import android.widget.LinearLayout;
7
8
9  import com.codesenior.radyom.R;
10 import com.codesenior.radyom.models.Settings;
11 import com.google.android.gms.ads.AdListener;
12 import com.google.android.gms.ads.AdRequest;
13 import com.google.android.gms.ads.AdSize;
14 import com.google.android.gms.ads.AdView;
15 import com.google.android.gms.ads.InterstitialAd;
16
17 public class AdmobHelper {
18     public static void showInterstitialAds(final Context context) {
19         SettingsHelper.getSettings(new SettingsHelperResponse() {
20             @Override
21             public void response(Settings settings) {
22                 if (!settings.getInterstitialAd().equals("true")) return;
23                 final InterstitialAd mInterstitial = new InterstitialAd(context);
24                 mInterstitial.setAdUnitId(settings.getInterstitialAdId());
25                 mInterstitial.loadAd(new AdRequest.Builder().build());
26                 mInterstitial.setAdListener(new AdListener() {
27                     @Override
28                     public void onAdLoaded() {
29                         super.onAdLoaded();
30                         mInterstitial.show();
31                     }
32                 });
33             }
34
35             @Override
36             public void failure(String message) {
37
38             }
39         });
40     }
41 }
42
43 public static void showAdmob(final AppCompatActivity activity) {
44     SettingsHelper.getSettings(new SettingsHelperResponse() {
45         @Override
46         public void response(Settings settings) {
47             if (!settings.getBannerAd().equals("true")) return;
48             final AdView adView = new AdView(activity);
49             adView.setAdUnitId(settings.getBannerAdId());
50             adView.setAdSize(AdSize.SMART_BANNER);
51             AdRequest adRequest = new AdRequest.Builder().build();

```

```

52         adView.loadAd(adRequest);
53         adView.setVisibility(View.GONE);
54         adView.setAdListener(new AdListener() {
55             @Override
56             public void onAdLoaded() {
57                 super.onAdLoaded();
58                 adView.setVisibility(View.VISIBLE);
59             }
60
61             @Override
62             public void onAdFailedToLoad(int i) {
63                 super.onAdFailedToLoad(i);
64             }
65         });
66         LinearLayout linearLayout = activity.findViewById(R.id.LinearAdView);
67         LinearLayout.LayoutParams params =
68         new LinearLayout.LayoutParams(LinearLayout.LayoutParams.MATCH_PARENT,
69         LinearLayout.LayoutParams.MATCH_PARENT);
70         linearLayout.addView(adView, params);
71     }
72
73     @Override
74     public void failure(String message) {
75
76     }
77 });
78 }
79 }

```

SettingsHelper and SettingsHelperResponse Class

```

1  package com.codesenior.radyom.helper;
2
3  import com.codesenior.radyom.Config;
4  import com.codesenior.radyom.models.Settings;
5  import com.codesenior.radyom.restapis.ApiClient;
6  import com.codesenior.radyom.restapis.SettingsService;
7  import com.codesenior.radyom.restapis.SingleResponse;
8
9  import retrofit2.Call;
10 import retrofit2.Callback;
11 import retrofit2.Response;
12 import retrofit2.Retrofit;
13
14 public class SettingsHelper {
15     public static void getSettings(final SettingsHelperResponse settingsHelperResponse) {
16         Retrofit retrofit = ApiClient.getClient(Config.REST_API);
17         SettingsService service = retrofit.create(SettingsService.class);
18         service.all().enqueue(new Callback<SingleResponse<Settings>>() {
19             @Override
20             public void onResponse(Call<SingleResponse<Settings>> call,
21             Response<SingleResponse<Settings>> response) {
22                 Settings settings = response.body().getData();
23
24                 settingsHelperResponse.response(settings);
25             }
26             @Override
27             public void onFailure(Call<SingleResponse<Settings>> call, Throwable t) {
28                 settingsHelperResponse.failure(t.getMessage());
29             }
30         });
31     }
32 }

```

```

33     }
34 }
35
36 import com.codesenior.radyom.models.Settings;
37
38 public interface SettingsHelperResponse {
39     public void response(Settings settings);
40     public void failure(String message);
41 }

```

Settings Class

```

1  public class Settings {
2      private int id;
3      private String appName;
4      private String onesignalAppId;
5      private String googleProjectNumber;
6      private String interstitialAd;
7      private String interstitialAdId;
8      private String bannerAd;
9      private String bannerAdId;
10
11     public int getId() {
12         return id;
13     }
14
15     public void setId(int id) {
16         this.id= id;
17     }
18
19     public String getAppName() {
20         return appName;
21     }
22
23     public void setAppName(String appName) {
24         this.appName= appName;
25     }
26
27     public String getOnesignalAppId() {
28         return onesignalAppId;
29     }
30
31     public void setOnesignalAppId(String onesignalAppId) {
32         this.onesignalAppId= onesignalAppId;
33     }
34
35     public String getGoogleProjectNumber() {
36         return googleProjectNumber;
37     }
38
39     public void setGoogleProjectNumber(String googleProjectNumber) {
40         this.googleProjectNumber= googleProjectNumber;
41     }
42
43     public String getInterstitialAd() {
44         return interstitialAd;
45     }
46
47     public void setInterstitialAd(String interstitialAd) {
48         this.interstitialAd= interstitialAd;
49     }
50
51     public String getInterstitialAdId() {

```

```
52     return interstitialAdId;
53 }
54
55 public void setInterstitialAdId(String interstitialAdId) {
56     this.interstitialAdId= interstitialAdId;
57 }
58
59 public String getBannerAd() {
60     return bannerAd;
61 }
62
63 public void setBannerAd(String bannerAd) {
64     this.bannerAd= bannerAd;
65 }
66
67 public String getBannerAdId() {
68     return bannerAdId;
69 }
70
71 public void setBannerAdId(String bannerAdId) {
72     this.bannerAdId= bannerAdId;
73 }
74 }
```