# ASSIGNMENT 4

Android Login Application using Firebase authentication.

Android manifest file:

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="edu.umkc.mobile.assignment4"**>  
  
 <**uses-permission android:name="android.permission.INTERNET"** />  
  
 <**application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/AppTheme"**>  
 <**activity android:name=".WelcomeActivity"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
 <**activity android:name=".SignInActivity"** />  
 <**activity android:name=".SignUpActivity"** />  
 <**activity  
 android:name=".IndexActivity"  
 android:theme="@style/AppTheme.NoActionBar"**></**activity**>  
 <**activity  
 android:name=".HelpActivity"  
 android:theme="@style/AppTheme.NoActionBar"**></**activity**>  
 <**activity  
 android:name=".SettingsActivity"  
 android:theme="@style/AppTheme.NoActionBar"**></**activity**>  
 </**application**>  
  
</**manifest**>

Gradle file:

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="edu.umkc.mobile.assignment4"**>  
  
 <**uses-permission android:name="android.permission.INTERNET"** />  
  
 <**application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/AppTheme"**>  
 <**activity android:name=".WelcomeActivity"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
 <**activity android:name=".SignInActivity"** />  
 <**activity android:name=".SignUpActivity"** />  
 <**activity  
 android:name=".IndexActivity"  
 android:theme="@style/AppTheme.NoActionBar"**></**activity**>  
 <**activity  
 android:name=".HelpActivity"  
 android:theme="@style/AppTheme.NoActionBar"**></**activity**>  
 <**activity  
 android:name=".SettingsActivity"  
 android:theme="@style/AppTheme.NoActionBar"**></**activity**>  
 </**application**>  
  
</**manifest**>

Welcome Activity:

**package** edu.umkc.mobile.assignment4;  
  
**import** android.content.Intent;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
  
**public class** WelcomeActivity **extends** AppCompatActivity {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_welcome***);  
 }  
  
 **public void** signIn(View view){  
 Intent intent = **new** Intent(**this**,SignInActivity.**class**);  
 startActivity(intent);  
 }  
  
 **public void** signUp(View view){  
 Intent intent = **new** Intent(**this**,SignUpActivity.**class**);  
 startActivity(intent);  
 }  
}

Welcome layout:

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout  
 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:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="edu.umkc.mobile.assignment4.WelcomeActivity"  
 android:background="@drawable/bgimg"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Login Application"  
 android:textAppearance="@style/TextAppearance.AppCompat.Large"  
 android:textColor="@android:color/white"  
 android:gravity="center"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="122dp"  
 android:textSize="30dp"  
 android:id="@+id/textView"** />  
  
 <**Button  
 android:id="@+id/signIn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/textView"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="53dp"  
 android:text="Sign In"  
 android:onClick="signIn"  
 android:background="@android:color/white"**/>  
  
 <**Button  
 android:id="@+id/signUp"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignStart="@+id/signIn"  
 android:layout\_below="@+id/signIn"  
 android:layout\_marginTop="44dp"  
 android:text="Sign up"  
 android:onClick="signUp"  
 android:background="@android:color/white"**/>  
  
</**RelativeLayout**>

SignUp Activity:

**package** edu.umkc.mobile.assignment4;  
  
**import** android.content.Intent;  
**import** android.support.annotation.NonNull;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.text.TextUtils;  
**import** android.util.Log;  
**import** android.view.View;  
**import** android.widget.EditText;  
**import** android.widget.Toast;  
  
**import** com.google.android.gms.common.SignInButton;  
**import** com.google.android.gms.tasks.OnCompleteListener;  
**import** com.google.android.gms.tasks.Task;  
**import** com.google.firebase.auth.AuthResult;  
**import** com.google.firebase.auth.FirebaseAuth;  
**import** com.google.firebase.auth.FirebaseUser;  
  
**public class** SignUpActivity **extends** AppCompatActivity **implements** View.OnClickListener {  
  
 **private static final** String ***TAG*** = **"EmailPassword"**;  
  
 **private** EditText **mEmailField**;  
 **private** EditText **mPasswordField**;  
  
 *// [START declare\_auth]* **private** FirebaseAuth **mAuth**;  
 *// [END declare\_auth]* @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_sign\_up***);  
  
 **mEmailField** = findViewById(R.id.***field\_email***);  
 **mPasswordField** = findViewById(R.id.***field\_password***);  
  
 findViewById(R.id.***email\_create\_account\_button***).setOnClickListener(**this**);  
  
 *// [START initialize\_auth]* **mAuth** = FirebaseAuth.*getInstance*();  
 *// [END initialize\_auth]* }  
  
 *// [START on\_start\_check\_user]* @Override  
 **public void** onStart() {  
 **super**.onStart();  
 *// Check if user is signed in (non-null) and update UI accordingly.* FirebaseUser currentUser = **mAuth**.getCurrentUser();  
 updateUI(currentUser);  
 }  
 *// [END on\_start\_check\_user]* **private void** createAccount(String email, String password) {  
 Log.*d*(***TAG***, **"createAccount:"** + email);  
 **if** (!validateForm()) {  
 **return**;  
 }  
  
 *// [START create\_user\_with\_email]* **mAuth**.createUserWithEmailAndPassword(email, password)  
 .addOnCompleteListener(**this**, **new** OnCompleteListener<AuthResult>() {  
 @Override  
 **public void** onComplete(@NonNull Task<AuthResult> task) {  
 **if** (task.isSuccessful()) {  
 *// Sign in success, update UI with the signed-in user's information* Log.d(TAG, **"createUserWithEmail:success"**);  
 FirebaseUser user = mAuth.getCurrentUser();  
 updateUI(user);  
 } **else** {  
 *// If sign in fails, display a message to the user.* Log.w(TAG, **"createUserWithEmail:failure"**, task.getException());  
 Toast.makeText(SignUpActivity.**this**, **"Authentication failed."**,  
 Toast.LENGTH\_SHORT).show();  
 updateUI(**null**);  
 }  
  
 }  
 });  
 *// [END create\_user\_with\_email]* }  
  
 **private boolean** validateForm() {  
 **boolean** valid = **true**;  
  
 String email = **mEmailField**.getText().toString();  
 **if** (TextUtils.*isEmpty*(email)) {  
 **mEmailField**.setError(**"Required."**);  
 valid = **false**;  
 } **else** {  
 **mEmailField**.setError(**null**);  
 }  
  
 String password = **mPasswordField**.getText().toString();  
 **if** (TextUtils.*isEmpty*(password)) {  
 **mPasswordField**.setError(**"Required."**);  
 valid = **false**;  
 } **else** {  
 **mPasswordField**.setError(**null**);  
 }  
  
 **return** valid;  
 }  
  
 **private void** updateUI(FirebaseUser user) {  
  
 **if**(user!=**null**) {  
 Toast.*makeText*(SignUpActivity.**this**, **"Authentication success. User Registered"**,  
 Toast.***LENGTH\_SHORT***).show();  
 Intent sendIntent = **new** Intent(**this**, IndexActivity.**class**);  
 sendIntent.setAction(Intent.***ACTION\_SEND***);  
 sendIntent.putExtra(Intent.EXTRA\_TEXT, user.getDisplayName()!=**null** ? user.getDisplayName() : user.getEmail()+ **","** + user.getEmail());  
 sendIntent.setType(**"text/plain"**);  
  
  
 **if** (sendIntent.resolveActivity(getPackageManager()) != **null**) {  
 startActivity(sendIntent);  
 }  
 }  
 }  
  
 @Override  
 **public void** onClick(View v) {  
 **int** i = v.getId();  
 **if** (i == R.id.email\_create\_account\_button) {  
 createAccount(mEmailField.getText().toString(), mPasswordField.getText().toString());  
 }  
 }  
}

SignUp Layout:

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout 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:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="edu.umkc.mobile.assignment4.SignUpActivity"  
 android:background="@drawable/bgimg"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Email"  
 android:textAppearance="@style/TextAppearance.AppCompat.Large"  
 android:textColor="@android:color/white"  
 android:gravity="center"  
 android:layout\_marginTop="122dp"  
 android:textSize="20dp"  
 android:id="@+id/textView"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignStart="@+id/textView3"** />  
  
 <**EditText  
 android:id="@+id/field\_email"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignBottom="@+id/textView"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginEnd="18dp"  
 android:ems="10"  
 android:inputType="textEmailAddress"  
 android:textColor="@android:color/white"**/>  
  
 <**TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="51dp"  
 android:text="Password"  
 android:textColor="@android:color/white"  
 android:textSize="20dp"  
 android:layout\_marginStart="14dp"  
 android:layout\_below="@+id/textView"  
 android:layout\_alignParentStart="true"** />  
  
 <**EditText  
 android:id="@+id/field\_password"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPassword"  
 android:layout\_above="@+id/textView4"  
 android:layout\_alignStart="@+id/field\_email"  
 android:textColor="@android:color/white"**/>  
  
 <**TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="49dp"  
 android:text="Re-enter Password"  
 android:textColor="@android:color/white"  
 android:textSize="20dp"  
 android:layout\_below="@+id/textView3"  
 android:layout\_alignParentStart="true"  
 android:layout\_marginStart="12dp"  
 android:layout\_alignEnd="@+id/textView3"** />  
  
 <**EditText  
 android:id="@+id/repassword"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPassword"  
 android:layout\_alignBottom="@+id/textView4"  
 android:layout\_alignStart="@+id/field\_password"  
 android:textColor="@android:color/white"**/>  
  
 <**Button  
 android:id="@+id/email\_create\_account\_button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/repassword"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="57dp"  
 android:background="@android:color/white"  
 android:text="SignUp"** />  
  
</**RelativeLayout**>

SignIn Activity:

**package** edu.umkc.mobile.assignment4;  
  
**import** android.app.ProgressDialog;  
**import** android.content.Intent;  
**import** android.content.SharedPreferences;  
**import** android.support.annotation.NonNull;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.util.Log;  
**import** android.view.View;  
**import** android.widget.CheckBox;  
**import** android.widget.EditText;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**import** com.google.android.gms.auth.api.Auth;  
**import** com.google.android.gms.auth.api.signin.GoogleSignInAccount;  
**import** com.google.android.gms.auth.api.signin.GoogleSignInOptions;  
**import** com.google.android.gms.auth.api.signin.GoogleSignInResult;  
**import** com.google.android.gms.common.ConnectionResult;  
**import** com.google.android.gms.common.SignInButton;  
**import** com.google.android.gms.common.api.GoogleApiClient;  
**import** com.google.android.gms.common.api.ResultCallback;  
**import** com.google.android.gms.common.api.Status;  
**import** com.google.android.gms.tasks.OnCompleteListener;  
**import** com.google.android.gms.tasks.Task;  
**import** com.google.firebase.auth.AuthCredential;  
**import** com.google.firebase.auth.AuthResult;  
**import** com.google.firebase.auth.FirebaseAuth;  
**import** com.google.firebase.auth.FirebaseUser;  
**import** com.google.firebase.auth.GoogleAuthProvider;  
  
**public class** SignInActivity **extends** AppCompatActivity **implements** GoogleApiClient.OnConnectionFailedListener,View.OnClickListener {  
  
 **private static final** String ***TAG*** = **"GoogleActivity"**;  
 **private static final int *RC\_SIGN\_IN*** = 9001;  
  
 *// [START declare\_auth]* **private** FirebaseAuth **mAuth**;  
 *// [END declare\_auth]* **private** GoogleApiClient **mGoogleApiClient**;  
  
 **private** EditText **mEmailField**;  
 **private** EditText **mPasswordField**;  
  
 **public static** String *PREFS\_NAME*=**"mypre"**;  
 **public static** String *PREF\_USERNAME*=**"username"**;  
 **public static** String *PREF\_PASSWORD*=**"password"**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_sign\_in***);  
  
  
 **mEmailField** = findViewById(R.id.***email***);  
 **mPasswordField** = findViewById(R.id.***password***);  
  
 *// Button listeners* findViewById(R.id.***sign\_in\_button***).setOnClickListener(**this**);  
  
 *// [START config\_signin]  
 // Configure Google Sign In* GoogleSignInOptions gso = **new** GoogleSignInOptions.Builder(GoogleSignInOptions.***DEFAULT\_SIGN\_IN***)  
 .requestIdToken(getString(R.string.***default\_web\_client\_id***))  
 .requestEmail()  
 .build();  
 *// [END config\_signin]  
  
 //Normal User SignIn* findViewById(R.id.***email\_sign\_in\_button***).setOnClickListener(**this**);  
  
 **mGoogleApiClient** = **new** GoogleApiClient.Builder(**this**)  
 .enableAutoManage(**this** */\* FragmentActivity \*/*, **this** */\* OnConnectionFailedListener \*/*)  
 .addApi(Auth.***GOOGLE\_SIGN\_IN\_API***, gso)  
 .build();  
  
 *// [START initialize\_auth]* **mAuth** = FirebaseAuth.*getInstance*();  
 *// [END initialize\_auth]* }  
  
 *// [START on\_start\_check\_user]* @Override  
 **public void** onStart() {  
 **super**.onStart();  
 *// Check if user is signed in (non-null) and update UI accordingly.* FirebaseUser currentUser = **mAuth**.getCurrentUser();  
 **if**(currentUser!=**null**)  
 updateUI(currentUser);  
 **else**{  
 getUser();  
 }  
 }  
 *// [END on\_start\_check\_user]  
  
 // [START onactivityresult]* @Override  
 **public void** onActivityResult(**int** requestCode, **int** resultCode, Intent data) {  
 **super**.onActivityResult(requestCode, resultCode, data);  
  
 *// Result returned from launching the Intent from GoogleSignInApi.getSignInIntent(...);* **if** (requestCode == ***RC\_SIGN\_IN***) {  
 GoogleSignInResult result = Auth.***GoogleSignInApi***.getSignInResultFromIntent(data);  
 **if** (result.isSuccess()) {  
 *// Google Sign In was successful, authenticate with Firebase* GoogleSignInAccount account = result.getSignInAccount();  
 firebaseAuthWithGoogle(account);  
 } **else** {  
 *// Google Sign In failed, update UI appropriately  
 // [START\_EXCLUDE]* updateUI(**null**);  
 *// [END\_EXCLUDE]* }  
 }  
 }  
 *// [END onactivityresult]  
  
 // [START auth\_with\_google]* **private void** firebaseAuthWithGoogle(GoogleSignInAccount acct) {  
 Log.*d*(***TAG***, **"firebaseAuthWithGoogle:"** + acct.getId());  
  
 AuthCredential credential = GoogleAuthProvider.*getCredential*(acct.getIdToken(), **null**);  
 **mAuth**.signInWithCredential(credential)  
 .addOnCompleteListener(**this**, **new** OnCompleteListener<AuthResult>() {  
 @Override  
 **public void** onComplete(@NonNull Task<AuthResult> task) {  
 **if** (task.isSuccessful()) {  
 *// Sign in success, update UI with the signed-in user's information* Log.*d*(***TAG***, **"signInWithCredential:success"**);  
 FirebaseUser user = **mAuth**.getCurrentUser();  
 updateUI(user);  
 } **else** {  
 *// If sign in fails, display a message to the user.* Log.*w*(***TAG***, **"signInWithCredential:failure"**, task.getException());  
 Toast.*makeText*(SignInActivity.**this**, **"Authentication failed."**,  
 Toast.***LENGTH\_SHORT***).show();  
 updateUI(**null**);  
 }  
  
 }  
 });  
 }  
 *// [END auth\_with\_google]  
  
 // [START signin]* **private void** signIn() {  
 Intent signInIntent = Auth.***GoogleSignInApi***.getSignInIntent(**mGoogleApiClient**);  
 startActivityForResult(signInIntent, ***RC\_SIGN\_IN***);  
 }  
 *// [END signin]* **private void** signOut() {  
 *// Firebase sign out* **mAuth**.signOut();  
  
 *// Google sign out* Auth.***GoogleSignInApi***.signOut(**mGoogleApiClient**).setResultCallback(  
 **new** ResultCallback<Status>() {  
 @Override  
 **public void** onResult(@NonNull Status status) {  
 updateUI(**null**);  
 }  
 });  
 }  
  
 **private void** revokeAccess() {  
 *// Firebase sign out* **mAuth**.signOut();  
  
 *// Google revoke access* Auth.***GoogleSignInApi***.revokeAccess(**mGoogleApiClient**).setResultCallback(  
 **new** ResultCallback<Status>() {  
 @Override  
 **public void** onResult(@NonNull Status status) {  
 updateUI(**null**);  
 }  
 });  
 }  
  
 **private void** updateUI(FirebaseUser user) {  
 **if**(user!=**null**) {  
 CheckBox ch = (CheckBox) findViewById(R.id.***ch\_rememberme***);  
 **if** (ch.isChecked())  
 rememberMe(**mEmailField**.getText().toString(), **mPasswordField**.getText().toString()); *//save username and password* Toast.*makeText*(SignInActivity.**this**, **"Authentication success."**,  
 Toast.***LENGTH\_SHORT***).show();  
  
 Intent sendIntent = **new** Intent(**this**, IndexActivity.**class**);  
 sendIntent.setAction(Intent.***ACTION\_SEND***);  
 String extra = user.getDisplayName() != **null** ? user.getDisplayName() : user.getEmail();  
 extra = extra + **","** + user.getEmail();  
 sendIntent.putExtra(Intent.***EXTRA\_TEXT***, extra);  
 sendIntent.setType(**"text/plain"**);  
  
  
 **if** (sendIntent.resolveActivity(getPackageManager()) != **null**) {  
 startActivity(sendIntent);  
 }  
 }  
 }  
  
 @Override  
 **public void** onConnectionFailed(@NonNull ConnectionResult connectionResult) {  
 *// An unresolvable error has occurred and Google APIs (including Sign-In) will not  
 // be available.* Log.*d*(***TAG***, **"onConnectionFailed:"** + connectionResult);  
 Toast.*makeText*(**this**, **"Google Play Services error."**, Toast.***LENGTH\_SHORT***).show();  
 }  
  
 **private void** signIn(String email, String password) {  
 Log.*d*(***TAG***, **"signIn:"** + email);  
  
 *// [START sign\_in\_with\_email]* **mAuth**.signInWithEmailAndPassword(email, password)  
 .addOnCompleteListener(**this**, **new** OnCompleteListener<AuthResult>() {  
 @Override  
 **public void** onComplete(@NonNull Task<AuthResult> task) {  
 **if** (task.isSuccessful()) {  
 *// Sign in success, update UI with the signed-in user's information* Log.*d*(***TAG***, **"signInWithEmail:success"**);  
 FirebaseUser user = **mAuth**.getCurrentUser();  
 updateUI(user);  
 } **else** {  
 *// If sign in fails, display a message to the user.* Log.*w*(***TAG***, **"signInWithEmail:failure"**, task.getException());  
 Toast.*makeText*(SignInActivity.**this**, **"Authentication failed."**,  
 Toast.***LENGTH\_SHORT***).show();  
 updateUI(**null**);  
 }  
  
 }  
 });  
 *// [END sign\_in\_with\_email]* }  
  
 **public void** rememberMe(String user, String password){  
 *//save username and password in SharedPreferences* getSharedPreferences(*PREFS\_NAME*,***MODE\_PRIVATE***)  
 .edit()  
 .putString(*PREF\_USERNAME*,user)  
 .putString(*PREF\_PASSWORD*,password)  
 .commit();  
 }  
 **public void** getUser(){  
 SharedPreferences pref = getSharedPreferences(*PREFS\_NAME*,***MODE\_PRIVATE***);  
 **mEmailField**.setText(pref.getString(*PREF\_USERNAME*, **null**));  
 **mPasswordField**.setText(pref.getString(*PREF\_PASSWORD*, **null**));  
 }  
  
  
 @Override  
 **public void** onClick(View v) {  
 **int** i = v.getId();  
 **if** (i == R.id.***sign\_in\_button***) {  
 signIn();  
 }**else if**(i == R.id.***email\_sign\_in\_button***) {  
 signIn(**mEmailField**.getText().toString(), **mPasswordField**.getText().toString());  
 }  
 }  
}

SignIn Layout:

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout 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:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="edu.umkc.mobile.assignment4.SignInActivity"  
 android:background="@drawable/bgimg"**>  
  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Email"  
 android:textAppearance="@style/TextAppearance.AppCompat.Large"  
 android:textColor="@android:color/white"  
 android:gravity="center"  
 android:layout\_marginTop="69dp"  
 android:textSize="20dp"  
 android:id="@+id/textView"  
 android:layout\_marginStart="30dp"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentStart="true"** />  
  
 <**EditText  
 android:id="@+id/email"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignBottom="@+id/textView"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginEnd="18dp"  
 android:ems="10"  
 android:inputType="textEmailAddress"  
 android:textColor="@android:color/white"**/>  
  
 <**TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="54dp"  
 android:text="Password"  
 android:textColor="@android:color/white"  
 android:textSize="20dp"  
 android:layout\_below="@+id/textView"  
 android:layout\_alignStart="@+id/textView"** />  
  
 <**EditText  
 android:id="@+id/password"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignBottom="@+id/textView3"  
 android:layout\_alignStart="@+id/email"  
 android:ems="10"  
 android:inputType="textPassword"  
 android:textColor="@android:color/white"**/>  
  
 <**Button  
 android:id="@+id/email\_sign\_in\_button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="46dp"  
 android:background="@android:color/white"  
 android:text="SignIn"  
 android:layout\_below="@+id/password"  
 android:layout\_centerHorizontal="true"** />  
  
 <**com.google.android.gms.common.SignInButton  
 android:id="@+id/sign\_in\_button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="40dp"  
 android:background="@android:color/white"  
 android:text="SignIn"  
 android:layout\_below="@+id/email\_sign\_in\_button"  
 android:layout\_centerHorizontal="true"** />  
  
 <**CheckBox  
 android:id="@+id/ch\_rememberme"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="37dp"  
 android:text="Remember Me"  
 android:textColor="@android:color/white"  
 android:buttonTint="@android:color/white"  
 android:textSize="20dp"  
 android:layout\_below="@+id/sign\_in\_button"  
 android:layout\_alignStart="@+id/textView3"** />  
  
  
</**RelativeLayout**>

Index Activity:

**package** edu.umkc.mobile.assignment4;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.support.design.widget.FloatingActionButton;  
**import** android.support.design.widget.Snackbar;  
**import** android.view.View;  
**import** android.support.design.widget.NavigationView;  
**import** android.support.v4.view.GravityCompat;  
**import** android.support.v4.widget.DrawerLayout;  
**import** android.support.v7.app.ActionBarDrawerToggle;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.support.v7.widget.Toolbar;  
**import** android.view.Menu;  
**import** android.view.MenuItem;  
**import** android.widget.TextView;  
  
**public class** IndexActivity **extends** AppCompatActivity  
 **implements** NavigationView.OnNavigationItemSelectedListener {  
  
 String **sharedText**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_index***);  
 Toolbar toolbar = (Toolbar) findViewById(R.id.***toolbar***);  
 setSupportActionBar(toolbar);  
  
 FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.***fab***);  
 fab.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 Snackbar.*make*(view, **"Replace with your own action"**, Snackbar.***LENGTH\_LONG***)  
 .setAction(**"Action"**, **null**).show();  
 }  
 });  
  
 DrawerLayout drawer = (DrawerLayout) findViewById(R.id.***drawer\_layout***);  
 ActionBarDrawerToggle toggle = **new** ActionBarDrawerToggle(  
 **this**, drawer, toolbar, R.string.***navigation\_drawer\_open***, R.string.***navigation\_drawer\_close***);  
 drawer.setDrawerListener(toggle);  
 toggle.syncState();  
  
 NavigationView navigationView = (NavigationView) findViewById(R.id.***nav\_view***);  
 navigationView.setNavigationItemSelectedListener(**this**);  
  
 Intent intent = getIntent();  
 String action = intent.getAction();  
 String type = intent.getType();  
  
 **if** (Intent.***ACTION\_SEND***.equals(action) && type != **null**) {  
 **if** (**"text/plain"**.equals(type)) {  
 handleSendText(intent); *// Handle text being sent* }  
 }  
  
 }  
  
 **void** handleSendText(Intent intent) {  
 **sharedText** = intent.getStringExtra(Intent.***EXTRA\_TEXT***);  
 **if** (**sharedText** != **null** && !**""**.equalsIgnoreCase(**sharedText**)) {  
 NavigationView navigationView = (NavigationView) findViewById(R.id.***nav\_view***);  
 navigationView.setNavigationItemSelectedListener(**this**);  
 View header=navigationView.getHeaderView(0);  
*/\*View view=navigationView.inflateHeaderView(R.layout.nav\_header\_main);\*/* TextView username = (TextView)header.findViewById(R.id.***username***);  
 TextView email = (TextView)header.findViewById(R.id.***email***);  
  
 TextView welcometext = (TextView)findViewById(R.id.***welcometext***);  
  
 **if**(**sharedText**!=**null**) {  
 username.setText(**sharedText**.split(**","**)[0]);  
 email.setText(**sharedText**.split(**","**)[1]);  
 welcometext.setText(**"Welcome "**+**sharedText**.split(**","**)[0]+**"!"**);  
 }  
 }  
 }  
  
 @Override  
 **public void** onBackPressed() {  
 DrawerLayout drawer = (DrawerLayout) findViewById(R.id.***drawer\_layout***);  
 **if** (drawer.isDrawerOpen(GravityCompat.***START***)) {  
 drawer.closeDrawer(GravityCompat.***START***);  
 } **else** {  
 **super**.onBackPressed();  
 }  
 }  
  
 @Override  
 **public boolean** onCreateOptionsMenu(Menu menu) {  
 *// Inflate the menu; this adds items to the action bar if it is present.* getMenuInflater().inflate(R.menu.***index***, menu);  
 **return true**;  
 }  
  
 @Override  
 **public boolean** onOptionsItemSelected(MenuItem item) {  
 *// Handle action bar item clicks here. The action bar will  
 // automatically handle clicks on the Home/Up button, so long  
 // as you specify a parent activity in AndroidManifest.xml.* **int** id = item.getItemId();  
  
 *//noinspection SimplifiableIfStatement* **if** (id == R.id.***action\_settings***) {  
 **return true**;  
 }  
  
 **return super**.onOptionsItemSelected(item);  
 }  
  
 @SuppressWarnings(**"StatementWithEmptyBody"**)  
 @Override  
 **public boolean** onNavigationItemSelected(MenuItem item) {  
 *// Handle navigation view item clicks here.* **int** id = item.getItemId();  
  
 **if** (id == R.id.***nav\_camera***) {  
 Intent sendIntent = **new** Intent(**this**,IndexActivity.**class**);  
 sendIntent.setAction(Intent.***ACTION\_SEND***);  
 sendIntent.putExtra(Intent.***EXTRA\_TEXT***, **sharedText**);  
 sendIntent.setType(**"text/plain"**);  
  
  
 **if**(sendIntent.resolveActivity(getPackageManager())!=**null**){  
 startActivity(sendIntent);  
 }  
 } **else if** (id == R.id.***nav\_gallery***) {  
 Intent sendIntent = **new** Intent(**this**,HelpActivity.**class**);  
 sendIntent.setAction(Intent.***ACTION\_SEND***);  
 sendIntent.putExtra(Intent.***EXTRA\_TEXT***, **sharedText**);  
 sendIntent.setType(**"text/plain"**);  
  
  
 **if**(sendIntent.resolveActivity(getPackageManager())!=**null**){  
 startActivity(sendIntent);  
 }  
  
 } **else if** (id == R.id.***nav\_manage***) {  
 Intent sendIntent = **new** Intent(**this**,SettingsActivity.**class**);  
 sendIntent.setAction(Intent.***ACTION\_SEND***);  
 sendIntent.putExtra(Intent.***EXTRA\_TEXT***, **sharedText**);  
 sendIntent.setType(**"text/plain"**);  
  
  
 **if**(sendIntent.resolveActivity(getPackageManager())!=**null**){  
 startActivity(sendIntent);  
 }  
  
 } **else if** (id == R.id.***nav\_share***) {  
  
 }  
  
 DrawerLayout drawer = (DrawerLayout) findViewById(R.id.***drawer\_layout***);  
 drawer.closeDrawer(GravityCompat.***START***);  
 **return true**;  
 }  
}

Index layout files:

*<?***xml version="1.0" encoding="utf-8"***?>*<**android.support.v4.widget.DrawerLayout 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/drawer\_layout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:fitsSystemWindows="true"  
 tools:openDrawer="start"  
 android:background="@drawable/bgimg"**>  
  
 <**include  
 layout="@layout/app\_bar\_index"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"** />  
  
 <**android.support.design.widget.NavigationView  
 android:id="@+id/nav\_view"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="match\_parent"  
 android:layout\_gravity="start"  
 android:fitsSystemWindows="true"  
 app:headerLayout="@layout/nav\_header\_index"  
 app:menu="@menu/activity\_index\_drawer"** />  
  
</**android.support.v4.widget.DrawerLayout**>

App\_bar\_index.xml:

*<?***xml version="1.0" encoding="utf-8"***?>*<**android.support.design.widget.CoordinatorLayout 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:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="edu.umkc.mobile.assignment4.IndexActivity"**>  
  
 <**android.support.design.widget.AppBarLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:theme="@style/AppTheme.AppBarOverlay"**>  
  
 <**android.support.v7.widget.Toolbar  
 android:id="@+id/toolbar"  
 android:layout\_width="match\_parent"  
 android:layout\_height="?attr/actionBarSize"  
 android:background="?attr/colorPrimary"  
 app:popupTheme="@style/AppTheme.PopupOverlay"** />  
  
 </**android.support.design.widget.AppBarLayout**>  
  
 <**include layout="@layout/content\_index"** />  
  
 <**android.support.design.widget.FloatingActionButton  
 android:id="@+id/fab"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="bottom|end"  
 android:layout\_margin="@dimen/fab\_margin"  
 app:srcCompat="@android:drawable/ic\_dialog\_email"** />  
  
 <**TextView  
 android:id="@+id/welcometext"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Welcome"  
 android:textSize="30dp"  
 android:textColor="@android:color/white"  
 android:layout\_gravity="center"**/>  
  
</**android.support.design.widget.CoordinatorLayout**>

Content\_index.xml:

*<?***xml version="1.0" encoding="utf-8"***?>*<**android.support.constraint.ConstraintLayout 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:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"  
 tools:context="edu.umkc.mobile.assignment4.IndexActivity"  
 tools:showIn="@layout/app\_bar\_index"**>  
  
</**android.support.constraint.ConstraintLayout**>

Nav\_header\_index.xml:

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 android:layout\_width="match\_parent"  
 android:layout\_height="@dimen/nav\_header\_height"  
 android:background="@drawable/side\_nav\_bar"  
 android:gravity="bottom"  
 android:orientation="vertical"  
 android:paddingBottom="@dimen/activity\_vertical\_margin"  
 android:paddingLeft="@dimen/activity\_horizontal\_margin"  
 android:paddingRight="@dimen/activity\_horizontal\_margin"  
 android:paddingTop="@dimen/activity\_vertical\_margin"  
 android:theme="@style/ThemeOverlay.AppCompat.Dark"**>  
  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/username"  
 android:paddingTop="@dimen/nav\_header\_vertical\_spacing"  
 android:text=""  
 android:textAppearance="@style/TextAppearance.AppCompat.Body1"** />  
  
 <**TextView  
 android:id="@+id/email"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text=""** />  
  
</**LinearLayout**>

Menu files:

Activity\_index\_drawer.xml:

*<?***xml version="1.0" encoding="utf-8"***?>*<**menu xmlns:android="http://schemas.android.com/apk/res/android"**>  
  
 <**group android:checkableBehavior="single"**>  
 <**item  
 android:id="@+id/nav\_camera"  
 android:icon="@drawable/ic\_menu\_camera"  
 android:title="Home"** />  
 <**item  
 android:id="@+id/nav\_gallery"  
 android:icon="@drawable/ic\_menu\_gallery"  
 android:title="Help"** />  
 <**item  
 android:id="@+id/nav\_manage"  
 android:icon="@drawable/ic\_menu\_manage"  
 android:title="Settings"** />  
 </**group**>  
  
 <**item android:title="Communicate"**>  
 <**menu**>  
 <**item  
 android:id="@+id/nav\_share"  
 android:icon="@drawable/ic\_menu\_share"  
 android:title="Share"** />  
 </**menu**>  
 </**item**>  
  
</**menu**>

Index.xml:

*<?***xml version="1.0" encoding="utf-8"***?>*<**menu xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"**>  
 <**item  
 android:id="@+id/action\_settings"  
 android:orderInCategory="100"  
 android:title="Logout"  
 app:showAsAction="never"** />  
</**menu**>

Help Activity:

**package** edu.umkc.mobile.assignment4;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.support.design.widget.FloatingActionButton;  
**import** android.support.design.widget.NavigationView;  
**import** android.support.design.widget.Snackbar;  
**import** android.support.v4.view.GravityCompat;  
**import** android.support.v4.widget.DrawerLayout;  
**import** android.support.v7.app.ActionBarDrawerToggle;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.support.v7.widget.Toolbar;  
**import** android.view.Menu;  
**import** android.view.MenuItem;  
**import** android.view.View;  
**import** android.widget.TextView;  
  
**public class** HelpActivity **extends** AppCompatActivity  
 **implements** NavigationView.OnNavigationItemSelectedListener {  
  
 String **sharedText**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_help***);  
 Toolbar toolbar = (Toolbar) findViewById(R.id.***toolbar***);  
 setSupportActionBar(toolbar);  
  
 FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.***fab***);  
 fab.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 Snackbar.*make*(view, **"Replace with your own action"**, Snackbar.***LENGTH\_LONG***)  
 .setAction(**"Action"**, **null**).show();  
 }  
 });  
  
 DrawerLayout drawer = (DrawerLayout) findViewById(R.id.***drawer\_layout***);  
 ActionBarDrawerToggle toggle = **new** ActionBarDrawerToggle(  
 **this**, drawer, toolbar, R.string.***navigation\_drawer\_open***, R.string.***navigation\_drawer\_close***);  
 drawer.setDrawerListener(toggle);  
 toggle.syncState();  
  
 NavigationView navigationView = (NavigationView) findViewById(R.id.***nav\_view***);  
 navigationView.setNavigationItemSelectedListener(**this**);  
  
 Intent intent = getIntent();  
 String action = intent.getAction();  
 String type = intent.getType();  
  
 **if** (Intent.***ACTION\_SEND***.equals(action) && type != **null**) {  
 **if** (**"text/plain"**.equals(type)) {  
 handleSendText(intent); *// Handle text being sent* }  
 }  
  
 }  
  
 **void** handleSendText(Intent intent) {  
 sharedText = intent.getStringExtra(Intent.EXTRA\_TEXT);  
 **if** (sharedText != **null**) {  
 NavigationView navigationView = (NavigationView) findViewById(R.id.nav\_view);  
 navigationView.setNavigationItemSelectedListener(**this**);  
 View header=navigationView.getHeaderView(0);  
*/\*View view=navigationView.inflateHeaderView(R.layout.nav\_header\_main);\*/* TextView username = (TextView)header.findViewById(R.id.username);  
 TextView email = (TextView)header.findViewById(R.id.email);  
  
 TextView welcometext = (TextView)findViewById(R.id.welcometext);  
  
 **if**(sharedText!=**null**) {  
 username.setText(sharedText.split(**","**)[0]);  
 email.setText(sharedText.split(**","**)[1]);  
 welcometext.setText(**"HELP Activity Page"**);  
 }  
 }  
 }  
  
 @Override  
 **public void** onBackPressed() {  
 DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer\_layout);  
 **if** (drawer.isDrawerOpen(GravityCompat.START)) {  
 drawer.closeDrawer(GravityCompat.START);  
 } **else** {  
 **super**.onBackPressed();  
 }  
 }  
  
 @Override  
 **public boolean** onCreateOptionsMenu(Menu menu) {  
 *// Inflate the menu; this adds items to the action bar if it is present.* getMenuInflater().inflate(R.menu.index, menu);  
 **return true**;  
 }  
  
 @Override  
 **public boolean** onOptionsItemSelected(MenuItem item) {  
 *// Handle action bar item clicks here. The action bar will  
 // automatically handle clicks on the Home/Up button, so long  
 // as you specify a parent activity in AndroidManifest.xml.* **int** id = item.getItemId();  
  
 *//noinspection SimplifiableIfStatement* **if** (id == R.id.action\_settings) {  
 **return true**;  
 }  
  
 **return super**.onOptionsItemSelected(item);  
 }  
  
 @SuppressWarnings(**"StatementWithEmptyBody"**)  
 @Override  
 **public boolean** onNavigationItemSelected(MenuItem item) {  
 *// Handle navigation view item clicks here.* **int** id = item.getItemId();  
  
 **if** (id == R.id.nav\_camera) {  
 Intent sendIntent = **new** Intent(**this**,IndexActivity.**class**);  
 sendIntent.setAction(Intent.ACTION\_SEND);  
 sendIntent.putExtra(Intent.EXTRA\_TEXT, sharedText);  
 sendIntent.setType(**"text/plain"**);  
  
  
 **if**(sendIntent.resolveActivity(getPackageManager())!=**null**){  
 startActivity(sendIntent);  
 }  
 } **else if** (id == R.id.nav\_gallery) {  
 Intent sendIntent = **new** Intent(**this**,HelpActivity.**class**);  
 sendIntent.setAction(Intent.ACTION\_SEND);  
 sendIntent.putExtra(Intent.EXTRA\_TEXT, sharedText);  
 sendIntent.setType(**"text/plain"**);  
  
  
 **if**(sendIntent.resolveActivity(getPackageManager())!=**null**){  
 startActivity(sendIntent);  
 }  
  
 } **else if** (id == R.id.nav\_manage) {  
 Intent sendIntent = **new** Intent(**this**,SettingsActivity.**class**);  
 sendIntent.setAction(Intent.ACTION\_SEND);  
 sendIntent.putExtra(Intent.EXTRA\_TEXT, sharedText);  
 sendIntent.setType(**"text/plain"**);  
  
  
 **if**(sendIntent.resolveActivity(getPackageManager())!=**null**){  
 startActivity(sendIntent);  
 }  
  
 } **else if** (id == R.id.nav\_share) {  
  
 }  
  
 DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer\_layout);  
 drawer.closeDrawer(GravityCompat.START);  
 **return true**;  
 }  
}

Help Layout:

*<?***xml version="1.0" encoding="utf-8"***?>*<**android.support.v4.widget.DrawerLayout 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/drawer\_layout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:fitsSystemWindows="true"  
 tools:openDrawer="start"  
 android:background="@drawable/bgimg"**>  
  
 <**include  
 layout="@layout/app\_bar\_index"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"** />  
  
 <**android.support.design.widget.NavigationView  
 android:id="@+id/nav\_view"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="match\_parent"  
 android:layout\_gravity="start"  
 android:fitsSystemWindows="true"  
 app:headerLayout="@layout/nav\_header\_index"  
 app:menu="@menu/activity\_index\_drawer"** />  
  
</**android.support.v4.widget.DrawerLayout**>

Settings Activity:

**package** edu.umkc.mobile.assignment4;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.support.design.widget.FloatingActionButton;  
**import** android.support.design.widget.NavigationView;  
**import** android.support.design.widget.Snackbar;  
**import** android.support.v4.view.GravityCompat;  
**import** android.support.v4.widget.DrawerLayout;  
**import** android.support.v7.app.ActionBarDrawerToggle;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.support.v7.widget.Toolbar;  
**import** android.view.Menu;  
**import** android.view.MenuItem;  
**import** android.view.View;  
**import** android.widget.TextView;  
  
**public class** SettingsActivity **extends** AppCompatActivity  
 **implements** NavigationView.OnNavigationItemSelectedListener {  
  
 String sharedText;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_settings);  
 Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar);  
 setSupportActionBar(toolbar);  
  
 FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.fab);  
 fab.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 Snackbar.make(view, **"Replace with your own action"**, Snackbar.LENGTH\_LONG)  
 .setAction(**"Action"**, **null**).show();  
 }  
 });  
  
 DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer\_layout);  
 ActionBarDrawerToggle toggle = **new** ActionBarDrawerToggle(  
 **this**, drawer, toolbar, R.string.navigation\_drawer\_open, R.string.navigation\_drawer\_close);  
 drawer.setDrawerListener(toggle);  
 toggle.syncState();  
  
 NavigationView navigationView = (NavigationView) findViewById(R.id.nav\_view);  
 navigationView.setNavigationItemSelectedListener(**this**);  
  
 Intent intent = getIntent();  
 String action = intent.getAction();  
 String type = intent.getType();  
  
 **if** (Intent.ACTION\_SEND.equals(action) && type != **null**) {  
 **if** (**"text/plain"**.equals(type)) {  
 handleSendText(intent); *// Handle text being sent* }  
 }  
  
 }  
  
 **void** handleSendText(Intent intent) {  
 **sharedText** = intent.getStringExtra(Intent.***EXTRA\_TEXT***);  
 **if** (**sharedText** != **null**) {  
 NavigationView navigationView = (NavigationView) findViewById(R.id.***nav\_view***);  
 navigationView.setNavigationItemSelectedListener(**this**);  
 View header=navigationView.getHeaderView(0);  
*/\*View view=navigationView.inflateHeaderView(R.layout.nav\_header\_main);\*/* TextView username = (TextView)header.findViewById(R.id.***username***);  
 TextView email = (TextView)header.findViewById(R.id.***email***);  
  
 TextView welcometext = (TextView)findViewById(R.id.***welcometext***);  
  
 **if**(**sharedText**!=**null**) {  
 username.setText(**sharedText**.split(**","**)[0]);  
 email.setText(**sharedText**.split(**","**)[1]);  
 welcometext.setText(**"Settings Activity Page!"**);  
 }  
 }  
 }  
  
 @Override  
 **public void** onBackPressed() {  
 DrawerLayout drawer = (DrawerLayout) findViewById(R.id.***drawer\_layout***);  
 **if** (drawer.isDrawerOpen(GravityCompat.***START***)) {  
 drawer.closeDrawer(GravityCompat.***START***);  
 } **else** {  
 **super**.onBackPressed();  
 }  
 }  
  
 @Override  
 **public boolean** onCreateOptionsMenu(Menu menu) {  
 *// Inflate the menu; this adds items to the action bar if it is present.* getMenuInflater().inflate(R.menu.index, menu);  
 **return true**;  
 }  
  
 @Override  
 **public boolean** onOptionsItemSelected(MenuItem item) {  
 *// Handle action bar item clicks here. The action bar will  
 // automatically handle clicks on the Home/Up button, so long  
 // as you specify a parent activity in AndroidManifest.xml.* **int** id = item.getItemId();  
  
 *//noinspection SimplifiableIfStatement* **if** (id == R.id.action\_settings) {  
 **return true**;  
 }  
  
 **return super**.onOptionsItemSelected(item);  
 }  
  
 @SuppressWarnings(**"StatementWithEmptyBody"**)  
 @Override  
 **public boolean** onNavigationItemSelected(MenuItem item) {  
 *// Handle navigation view item clicks here.* **int** id = item.getItemId();  
  
 **if** (id == R.id.nav\_camera) {  
 Intent sendIntent = **new** Intent(**this**,IndexActivity.**class**);  
 sendIntent.setAction(Intent.ACTION\_SEND);  
 sendIntent.putExtra(Intent.EXTRA\_TEXT, sharedText);  
 sendIntent.setType(**"text/plain"**);  
  
  
 **if**(sendIntent.resolveActivity(getPackageManager())!=**null**){  
 startActivity(sendIntent);  
 }  
 } **else if** (id == R.id.nav\_gallery) {  
 Intent sendIntent = **new** Intent(**this**,HelpActivity.**class**);  
 sendIntent.setAction(Intent.ACTION\_SEND);  
 sendIntent.putExtra(Intent.EXTRA\_TEXT, sharedText);  
 sendIntent.setType(**"text/plain"**);  
  
  
 **if**(sendIntent.resolveActivity(getPackageManager())!=**null**){  
 startActivity(sendIntent);  
 }  
  
 } **else if** (id == R.id.nav\_manage) {  
 Intent sendIntent = **new** Intent(**this**,SettingsActivity.**class**);  
 sendIntent.setAction(Intent.ACTION\_SEND);  
 sendIntent.putExtra(Intent.EXTRA\_TEXT, sharedText);  
 sendIntent.setType(**"text/plain"**);  
  
  
 **if**(sendIntent.resolveActivity(getPackageManager())!=**null**){  
 startActivity(sendIntent);  
 }  
  
 } **else if** (id == R.id.nav\_share) {  
  
 }  
  
 DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer\_layout);  
 drawer.closeDrawer(GravityCompat.START);  
 **return true**;  
 }  
}

Settings layout:

*<?***xml version="1.0" encoding="utf-8"***?>*<**android.support.v4.widget.DrawerLayout 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/drawer\_layout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:fitsSystemWindows="true"  
 tools:openDrawer="start"  
 android:background="@drawable/bgimg"**>  
  
 <**include  
 layout="@layout/app\_bar\_index"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"** />  
  
 <**android.support.design.widget.NavigationView  
 android:id="@+id/nav\_view"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="match\_parent"  
 android:layout\_gravity="start"  
 android:fitsSystemWindows="true"  
 app:headerLayout="@layout/nav\_header\_index"  
 app:menu="@menu/activity\_index\_drawer"** />  
  
</**android.support.v4.widget.DrawerLayout**>