**Mobile Application Development**

* **Practical 12: Login Register with PHP**

**CODE:**

**Andriod\_manifest.xml**

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.login"**>  
  
 <**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/Theme.Login"  
 android:usesCleartextTraffic="true"**>  
 <**activity  
 android:name=".ProfileActivity"  
 android:exported="true"** />  
 <**activity  
 android:name=".LoginActivity"  
 android:exported="true"** />  
 <**activity  
 android:name=".MainActivity"  
 android:exported="true"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
 </**application**>  
  
</**manifest**>

**Activity\_main.xml**

*<?***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=".MainActivity"**>  
  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginTop="58dp"  
 android:layout\_marginBottom="289dp"  
 android:orientation="vertical"  
 android:padding="10dp"**>  
  
  
 <**EditText  
 android:id="@+id/editTextUsername"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginBottom="8dp"  
 android:hint="Username"  
 android:inputType="text"** />  
  
 <**EditText  
 android:id="@+id/editTextEmail"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginBottom="8dp"  
 android:hint="Email"  
 android:inputType="textEmailAddress"** />  
  
 <**EditText  
 android:id="@+id/editTextPassword"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginBottom="8dp"  
 android:fontFamily="cursive"  
 android:hint="Password"  
 android:inputType="textPassword"** />  
  
 <**RadioGroup  
 android:id="@+id/radioGender"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginBottom="8dp"  
 android:orientation="horizontal"**>  
  
 <**RadioButton  
 android:id="@+id/radioButtonMale"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:checked="true"  
 android:text="Male"** />  
  
  
 <**RadioButton  
 android:id="@+id/radioButtonFemale"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Female"** />  
  
 </**RadioGroup**>  
  
 <**Button  
 android:id="@+id/buttonRegister"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginBottom="8dp"  
 android:text="Register"** />  
  
 <**TextView  
 android:id="@+id/textViewLogin"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginBottom="8dp"  
 android:text="Already Registered?\nLogin Here"  
 android:textAlignment="center"  
 android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium"** />  
 </**LinearLayout**>  
  
 <**ProgressBar  
 android:visibility="gone"  
 android:id="@+id/progressBar"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:layout\_centerVertical="true"** />  
  
</**RelativeLayout**>

**Activity\_login.xml**

*<?***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=".LoginActivity"**>  
  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="359dp"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginTop="134dp"  
 android:layout\_marginBottom="238dp"  
 android:orientation="vertical"  
 android:padding="10dp"**>  
  
  
 <**EditText  
 android:id="@+id/editTextUsername"  
 android:layout\_width="323dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginBottom="8dp"  
 android:hint="Username"  
 android:inputType="text"** />  
  
 <**EditText  
 android:id="@+id/editTextPassword"  
 android:layout\_width="326dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginBottom="8dp"  
 android:fontFamily="cursive"  
 android:hint="Password"  
 android:inputType="textPassword"** />  
  
 <**Button  
 android:id="@+id/buttonLogin"  
 android:layout\_width="332dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginBottom="8dp"  
 android:background="#B9EBF1"  
 android:backgroundTint="#C0EDF3"  
 android:text="Login"** />  
  
 <**TextView  
 android:id="@+id/textViewRegister"  
 android:layout\_width="328dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginBottom="8dp"  
 android:text="Dont' have an account?\nRegister Here"  
 android:textAlignment="center"  
 android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium"** />  
  
 </**LinearLayout**>  
  
 <**ProgressBar  
 android:visibility="gone"  
 android:id="@+id/progressBar"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:layout\_centerVertical="true"** />  
</**RelativeLayout**>

**Activity\_profile.xml**

*<?***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=".ProfileActivity"**>  
  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_marginTop="250dp"**>  
  
 <**TableLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"**>  
  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:text="Id"  
 android:textAppearance="@style/Base.TextAppearance.AppCompat.Large"** />  
  
 <**TextView  
 android:id="@+id/textViewId"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:text="1"  
 android:textAppearance="@style/Base.TextAppearance.AppCompat.Large"** />  
  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:text="Username"  
 android:textAppearance="@style/Base.TextAppearance.AppCompat.Large"** />  
  
 <**TextView  
 android:id="@+id/textViewUsername"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:text="Arjun"  
 android:textAppearance="@style/Base.TextAppearance.AppCompat.Large"** />  
  
 </**TableRow**>  
  
 <**TableRow**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:text="Email"  
 android:textAppearance="@style/Base.TextAppearance.AppCompat.Large"** />  
  
 <**TextView  
 android:id="@+id/textViewEmail"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:text="arjunvankani@gmail.com"  
 android:textAppearance="@style/Base.TextAppearance.AppCompat.Large"** />  
  
 </**TableRow**>  
  
 <**TableRow**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:text="Gender"  
 android:textAppearance="@style/Base.TextAppearance.AppCompat.Large"** />  
  
 <**TextView  
 android:id="@+id/textViewGender"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:text="Male"  
 android:textAppearance="@style/Base.TextAppearance.AppCompat.Large"** />  
  
 </**TableRow**>  
 </**TableLayout**>  
  
 <**Button  
 android:id="@+id/buttonLogout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Logout"** />  
 </**LinearLayout**>  
</**RelativeLayout**>

**MainActivity.java**

**package** com.example.login;  
  
**import** android.content.Intent;  
**import** android.os.AsyncTask;  
**import** android.os.Bundle;  
**import** android.text.TextUtils;  
**import** android.view.View;  
**import** android.widget.EditText;  
**import** android.widget.ProgressBar;  
**import** android.widget.RadioButton;  
**import** android.widget.RadioGroup;  
**import** android.widget.Toast;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** org.json.JSONException;  
**import** org.json.JSONObject;  
  
**import** java.util.HashMap;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 EditText **editTextUsername**, **editTextEmail**, **editTextPassword**;  
 RadioGroup **radioGroupGender**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **if** (SharedPrefManager.*getInstance*(**this**).isLoggedIn()) {  
 finish();  
 startActivity(**new** Intent(**this**, ProfileActivity.**class**));  
 **return**;  
 }  
  
 **editTextUsername** = (EditText) findViewById(R.id.***editTextUsername***);  
 **editTextEmail** = (EditText) findViewById(R.id.***editTextEmail***);  
 **editTextPassword** = (EditText) findViewById(R.id.***editTextPassword***);  
 **radioGroupGender** = (RadioGroup) findViewById(R.id.***radioGender***);  
  
  
 findViewById(R.id.***buttonRegister***).setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 registerUser();  
 }  
 });  
  
 findViewById(R.id.***textViewLogin***).setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 finish();  
 startActivity(**new** Intent(MainActivity.**this**, LoginActivity.**class**));  
 }  
 });  
  
 }  
  
 **private void** registerUser() {  
 **final** String username = **editTextUsername**.getText().toString().trim();  
 **final** String email = **editTextEmail**.getText().toString().trim();  
 **final** String password = **editTextPassword**.getText().toString().trim();  
  
 **final** String gender = ((RadioButton) findViewById(**radioGroupGender**.getCheckedRadioButtonId())).getText().toString();  
  
  
 **if** (TextUtils.*isEmpty*(username)) {  
 **editTextUsername**.setError(**"Please enter username"**);  
 **editTextUsername**.requestFocus();  
 **return**;  
 }  
  
 **if** (TextUtils.*isEmpty*(email)) {  
 **editTextEmail**.setError(**"Please enter your email"**);  
 **editTextEmail**.requestFocus();  
 **return**;  
 }  
  
 **if** (!android.util.Patterns.***EMAIL\_ADDRESS***.matcher(email).matches()) {  
 **editTextEmail**.setError(**"Enter a valid email"**);  
 **editTextEmail**.requestFocus();  
 **return**;  
 }  
  
 **if** (TextUtils.*isEmpty*(password)) {  
 **editTextPassword**.setError(**"Enter a password"**);  
 **editTextPassword**.requestFocus();  
 **return**;  
 }  
  
  
 **class** RegisterUser **extends** AsyncTask<Void, Void, String> {  
  
 **private** ProgressBar **progressBar**;  
  
 @Override  
 **protected** String doInBackground(Void... voids) {  
 RequestHandler requestHandler = **new** RequestHandler();  
  
 HashMap<String, String> params = **new** HashMap<>();  
 params.put(**"username"**, username);  
 params.put(**"email"**, email);  
 params.put(**"password"**, password);  
 params.put(**"gender"**, gender);  
  
 **return** requestHandler.sendPostRequest(URLs.***URL\_REGISTER***, params);  
 }  
  
 @Override  
 **protected void** onPreExecute() {  
 **super**.onPreExecute();  
 **progressBar** = (ProgressBar) findViewById(R.id.***progressBar***);  
 **progressBar**.setVisibility(View.***VISIBLE***);  
 }  
  
 @Override  
 **protected void** onPostExecute(String s) {  
 **super**.onPostExecute(s);  
 **progressBar**.setVisibility(View.***GONE***);  
  
 **try** {  
 JSONObject obj = **new** JSONObject(s);  
  
 **if** (!obj.getBoolean(**"error"**)) {  
 Toast.*makeText*(getApplicationContext(), obj.getString(**"message"**), Toast.***LENGTH\_SHORT***).show();  
  
 JSONObject userJson = obj.getJSONObject(**"user"**);  
  
 User user = **new** User(  
 userJson.getInt(**"id"**),  
 userJson.getString(**"username"**),  
 userJson.getString(**"email"**),  
 userJson.getString(**"gender"**)  
 );  
  
 SharedPrefManager.*getInstance*(getApplicationContext()).userLogin(user);  
  
 finish();  
 startActivity(**new** Intent(getApplicationContext(), ProfileActivity.**class**));  
 } **else** {  
 Toast.*makeText*(getApplicationContext(), **"Some error occurred"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 } **catch** (JSONException e) {  
 e.printStackTrace();  
 }  
 }  
 }  
  
 RegisterUser ru = **new** RegisterUser();  
 ru.execute();  
 }  
  
}

**LoginActivity.java**

**package** com.example.login;  
  
**import** android.content.Intent;  
**import** android.os.AsyncTask;  
**import** android.os.Bundle;  
**import** android.text.TextUtils;  
**import** android.view.View;  
**import** android.widget.EditText;  
**import** android.widget.ProgressBar;  
**import** android.widget.Toast;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** org.json.JSONException;  
**import** org.json.JSONObject;  
  
**import** java.util.HashMap;  
  
**public class** LoginActivity **extends** AppCompatActivity {  
  
 EditText **editTextUsername**, **editTextPassword**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_login***);  
  
 **editTextUsername** = (EditText) findViewById(R.id.***editTextUsername***);  
 **editTextPassword** = (EditText) findViewById(R.id.***editTextPassword***);  
  
  
  
 findViewById(R.id.***buttonLogin***).setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 userLogin();  
 }  
 });  
  
 findViewById(R.id.***textViewRegister***).setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 finish();  
 startActivity(**new** Intent(getApplicationContext(), MainActivity.**class**));  
 }  
 });  
 }  
  
 **private void** userLogin() {  
 **final** String username = **editTextUsername**.getText().toString();  
 **final** String password = **editTextPassword**.getText().toString();  
  
 **if** (TextUtils.*isEmpty*(username)) {  
 **editTextUsername**.setError(**"Please enter your username"**);  
 **editTextUsername**.requestFocus();  
 **return**;  
 }  
  
 **if** (TextUtils.*isEmpty*(password)) {  
 **editTextPassword**.setError(**"Please enter your password"**);  
 **editTextPassword**.requestFocus();  
 **return**;  
 }  
  
  
 **class** UserLogin **extends** AsyncTask<Void, Void, String> {  
  
 ProgressBar **progressBar**;  
  
 @Override  
 **protected void** onPreExecute() {  
 **super**.onPreExecute();  
 **progressBar** = (ProgressBar) findViewById(R.id.***progressBar***);  
 **progressBar**.setVisibility(View.***VISIBLE***);  
 }  
  
 @Override  
 **protected void** onPostExecute(String s) {  
 **super**.onPostExecute(s);  
 **progressBar**.setVisibility(View.***GONE***);  
  
  
 **try** {  
 JSONObject obj = **new** JSONObject(s);  
  
 **if** (!obj.getBoolean(**"error"**)) {  
 Toast.*makeText*(getApplicationContext(), obj.getString(**"message"**), Toast.***LENGTH\_SHORT***).show();  
  
 JSONObject userJson = obj.getJSONObject(**"user"**);  
  
 User user = **new** User(  
 userJson.getInt(**"id"**),  
 userJson.getString(**"username"**),  
 userJson.getString(**"email"**),  
 userJson.getString(**"gender"**)  
 );  
  
 SharedPrefManager.*getInstance*(getApplicationContext()).userLogin(user);  
  
 finish();  
 startActivity(**new** Intent(getApplicationContext(), ProfileActivity.**class**));  
 } **else** {  
 Toast.*makeText*(getApplicationContext(), **"Invalid username or password"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 } **catch** (JSONException e) {  
 e.printStackTrace();  
 }  
 }  
  
 @Override  
 **protected** String doInBackground(Void... voids) {  
 RequestHandler requestHandler = **new** RequestHandler();  
  
 HashMap<String, String> params = **new** HashMap<>();  
 params.put(**"username"**, username);  
 params.put(**"password"**, password);  
  
 **return** requestHandler.sendPostRequest(URLs.***URL\_LOGIN***, params);  
 }  
 }  
  
 UserLogin ul = **new** UserLogin();  
 ul.execute();  
 }  
}

**ProfileActivity.java**

**package** com.example.login;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.TextView;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**public class** ProfileActivity **extends** AppCompatActivity {  
  
 TextView **textViewId**, **textViewUsername**, **textViewEmail**, **textViewGender**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_profile***);  
  
 **if** (!SharedPrefManager.*getInstance*(**this**).isLoggedIn()) {  
 finish();  
 startActivity(**new** Intent(**this**, LoginActivity.**class**));  
 }  
  
  
 **textViewId** = (TextView) findViewById(R.id.***textViewId***);  
 **textViewUsername** = (TextView) findViewById(R.id.***textViewUsername***);  
 **textViewEmail** = (TextView) findViewById(R.id.***textViewEmail***);  
 **textViewGender** = (TextView) findViewById(R.id.***textViewGender***);  
  
  
 User user = SharedPrefManager.*getInstance*(**this**).getUser();  
  
 **textViewId**.setText(String.*valueOf*(user.getId()));  
 **textViewUsername**.setText(user.getUsername());  
 **textViewEmail**.setText(user.getEmail());  
 **textViewGender**.setText(user.getGender());  
  
 findViewById(R.id.***buttonLogout***).setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 finish();  
 SharedPrefManager.*getInstance*(getApplicationContext()).logout();  
 }  
 });  
 }  
}

**RequestHadndler.java**

**package** com.example.login;  
**import** java.io.BufferedReader;  
**import** java.io.BufferedWriter;  
**import** java.io.InputStreamReader;  
**import** java.io.OutputStream;  
**import** java.io.OutputStreamWriter;  
**import** java.io.UnsupportedEncodingException;  
**import** java.net.HttpURLConnection;  
**import** java.net.URL;  
**import** java.net.URLEncoder;  
**import** java.util.HashMap;  
**import** java.util.Map;  
  
**import** javax.net.ssl.HttpsURLConnection;  
**public class** RequestHandler {  
 **public** String sendPostRequest(String requestURL, HashMap<String, String> postDataParams) {  
 URL url;  
  
 StringBuilder sb = **new** StringBuilder();  
 **try** {  
 url = **new** URL(requestURL);  
 HttpURLConnection conn = (HttpURLConnection) url.openConnection();  
 conn.setReadTimeout(15000);  
 conn.setConnectTimeout(15000);  
 conn.setRequestMethod(**"POST"**);  
 conn.setDoInput(**true**);  
 conn.setDoOutput(**true**);  
  
 OutputStream os = conn.getOutputStream();  
  
 BufferedWriter writer = **new** BufferedWriter(  
 **new** OutputStreamWriter(os, **"UTF-8"**));  
 writer.write(getPostDataString(postDataParams));  
  
 writer.flush();  
 writer.close();  
 os.close();  
 **int** responseCode = conn.getResponseCode();  
  
 **if** (responseCode == HttpsURLConnection.***HTTP\_OK***) {  
  
 BufferedReader br = **new** BufferedReader(**new** InputStreamReader(conn.getInputStream()));  
 sb = **new** StringBuilder();  
 String response;  
  
 **while** ((response = br.readLine()) != **null**) {  
 sb.append(response);  
 }  
 }  
  
 } **catch** (Exception e) {  
 e.printStackTrace();  
 }  
 **return** sb.toString();  
 }  
  
  
 **private** String getPostDataString(HashMap<String, String> params) **throws** UnsupportedEncodingException {  
 StringBuilder result = **new** StringBuilder();  
 **boolean** first = **true**;  
 **for** (Map.Entry<String, String> entry : params.entrySet()) {  
 **if** (first)  
 first = **false**;  
 **else** result.append(**"&"**);  
  
 result.append(URLEncoder.*encode*(entry.getKey(), **"UTF-8"**));  
 result.append(**"="**);  
 result.append(URLEncoder.*encode*(entry.getValue(), **"UTF-8"**));  
 }  
  
 **return** result.toString();  
 }  
  
}

**SharedPrefManager**

**package** com.example.login;  
  
**import** android.content.Context;  
**import** android.content.Intent;  
**import** android.content.SharedPreferences;  
  
**public class** SharedPrefManager {  
 **private static final** String ***SHARED\_PREF\_NAME*** = **"simplifiedcodingsharedpref"**;  
 **private static final** String ***KEY\_USERNAME*** = **"keyusername"**;  
 **private static final** String ***KEY\_EMAIL*** = **"keyemail"**;  
 **private static final** String ***KEY\_GENDER*** = **"keygender"**;  
 **private static final** String ***KEY\_ID*** = **"keyid"**;  
  
 **private static** SharedPrefManager *mInstance*;  
 **private static** Context *mCtx*;  
  
 **private** SharedPrefManager(Context context) {  
 *mCtx* = context;  
 }  
  
 **public static synchronized** SharedPrefManager getInstance(Context context) {  
 **if** (*mInstance* == **null**) {  
 *mInstance* = **new** SharedPrefManager(context);  
 }  
 **return** *mInstance*;  
 }  
  
 **public void** userLogin(User user) {  
 SharedPreferences sharedPreferences = *mCtx*.getSharedPreferences(***SHARED\_PREF\_NAME***, Context.***MODE\_PRIVATE***);  
 SharedPreferences.Editor editor = sharedPreferences.edit();  
 editor.putInt(***KEY\_ID***, user.getId());  
 editor.putString(***KEY\_USERNAME***, user.getUsername());  
 editor.putString(***KEY\_EMAIL***, user.getEmail());  
 editor.putString(***KEY\_GENDER***, user.getGender());  
 editor.apply();  
 }  
  
 **public boolean** isLoggedIn() {  
 SharedPreferences sharedPreferences = *mCtx*.getSharedPreferences(***SHARED\_PREF\_NAME***, Context.***MODE\_PRIVATE***);  
 **return** sharedPreferences.getString(***KEY\_USERNAME***, **null**) != **null**;  
 }  
  
 **public** User getUser() {  
 SharedPreferences sharedPreferences = *mCtx*.getSharedPreferences(***SHARED\_PREF\_NAME***, Context.***MODE\_PRIVATE***);  
 **return new** User(  
 sharedPreferences.getInt(***KEY\_ID***, -1),  
 sharedPreferences.getString(***KEY\_USERNAME***, **null**),  
 sharedPreferences.getString(***KEY\_EMAIL***, **null**),  
 sharedPreferences.getString(***KEY\_GENDER***, **null**)  
 );  
 }  
  
 **public void** logout() {  
 SharedPreferences sharedPreferences = *mCtx*.getSharedPreferences(***SHARED\_PREF\_NAME***, Context.***MODE\_PRIVATE***);  
 SharedPreferences.Editor editor = sharedPreferences.edit();  
 editor.clear();  
 editor.apply();  
 *mCtx*.startActivity(**new** Intent(*mCtx*, LoginActivity.**class**));  
 }  
}

**URLS**

**package** com.example.login;  
  
**public class** URLs {  
 **private static final** String ***ROOT\_URL*** = **"http://192.168.124.201/Android/Api.php?apicall="**;  
  
 **public static final** String ***URL\_REGISTER*** = ***ROOT\_URL*** + **"signup"**;  
 **public static final** String ***URL\_LOGIN***= ***ROOT\_URL*** + **"login"**;  
}

**User**

**package** com.example.login;  
  
**public class** User {  
 **private int id**;  
 **private** String **username**, **email**, **gender**;  
  
 **public** User(**int** id, String username, String email, String gender) {  
 **this**.**id** = id;  
 **this**.**username** = username;  
 **this**.**email** = email;  
 **this**.**gender** = gender;  
 }  
  
 **public int** getId() {  
 **return id**;  
 }  
  
 **public** String getUsername() {  
 **return username**;  
 }  
  
 **public** String getEmail() {  
 **return email**;  
 }  
  
 **public** String getGender() {  
 **return gender**;  
 }  
}

**Output**



  