**Mobile Application Development**

**Assignment 1**

**HND in Software Engineering**

**24.1F**

**KUHDSE241F-019 – H.M.D.M.HERATH**

**KUHDSE241F-020 – S.M.W.U.SAMARAKOON**

**2024**



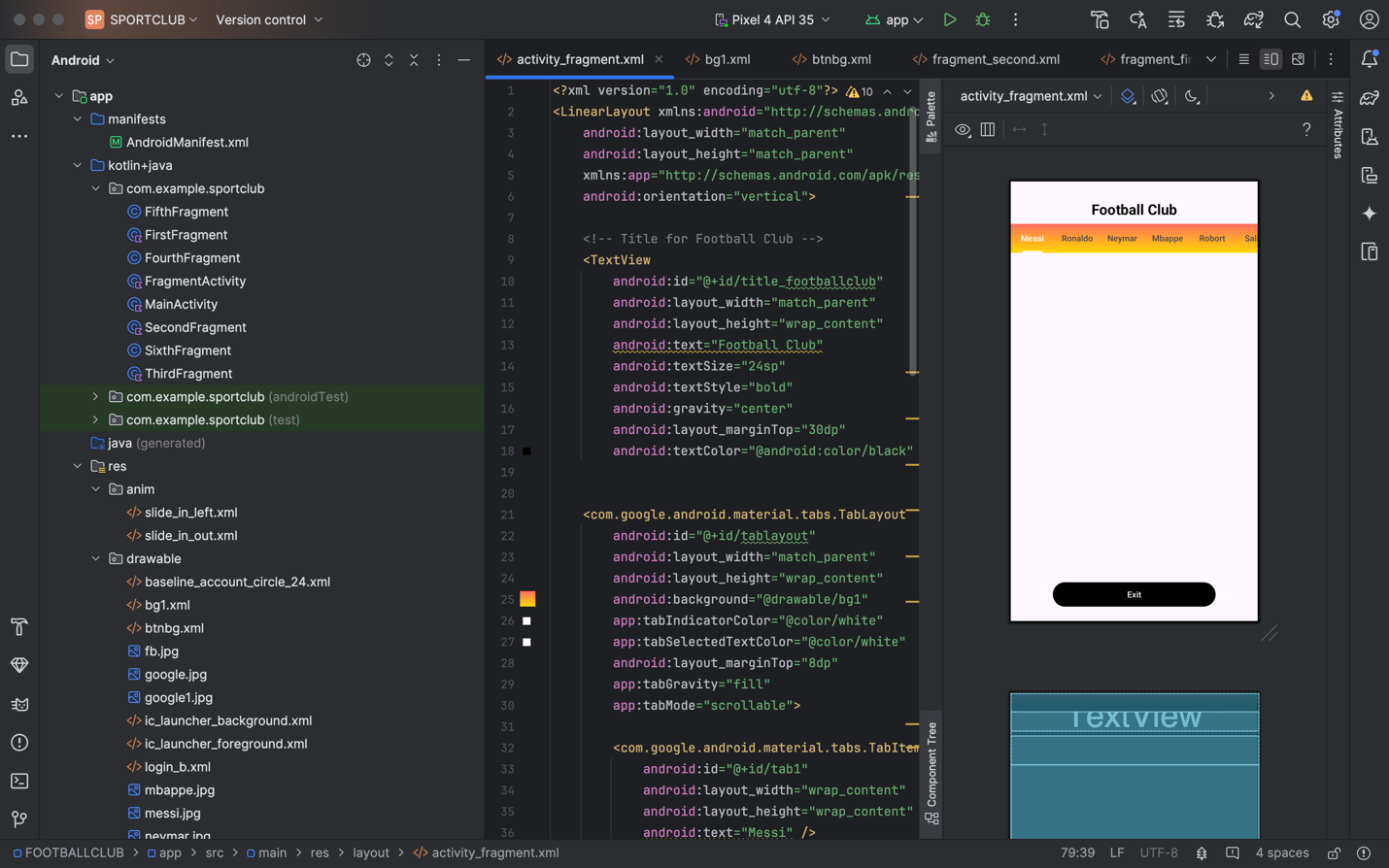
**School of Computing and Engineering**

**National Institute of Business Management**

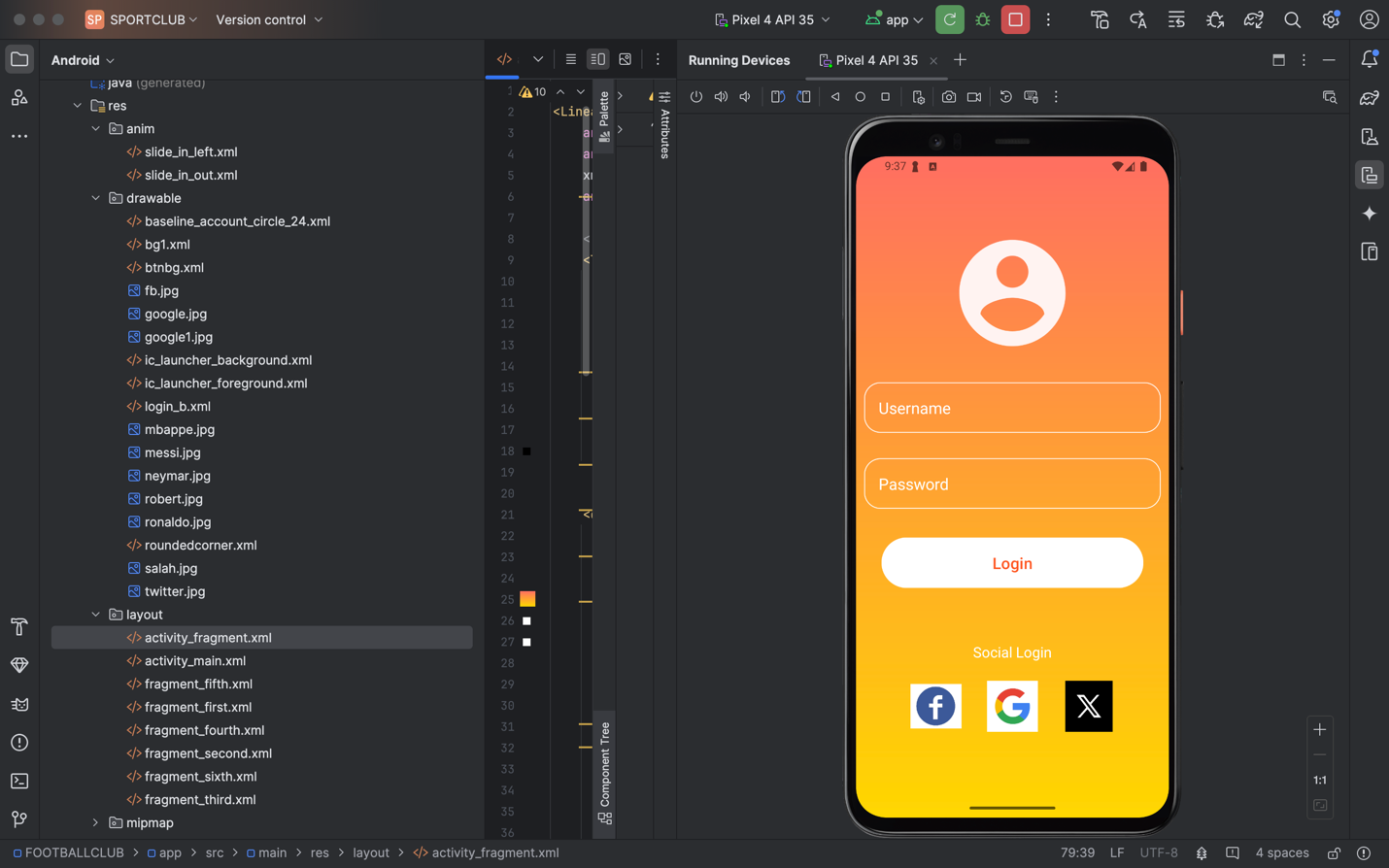
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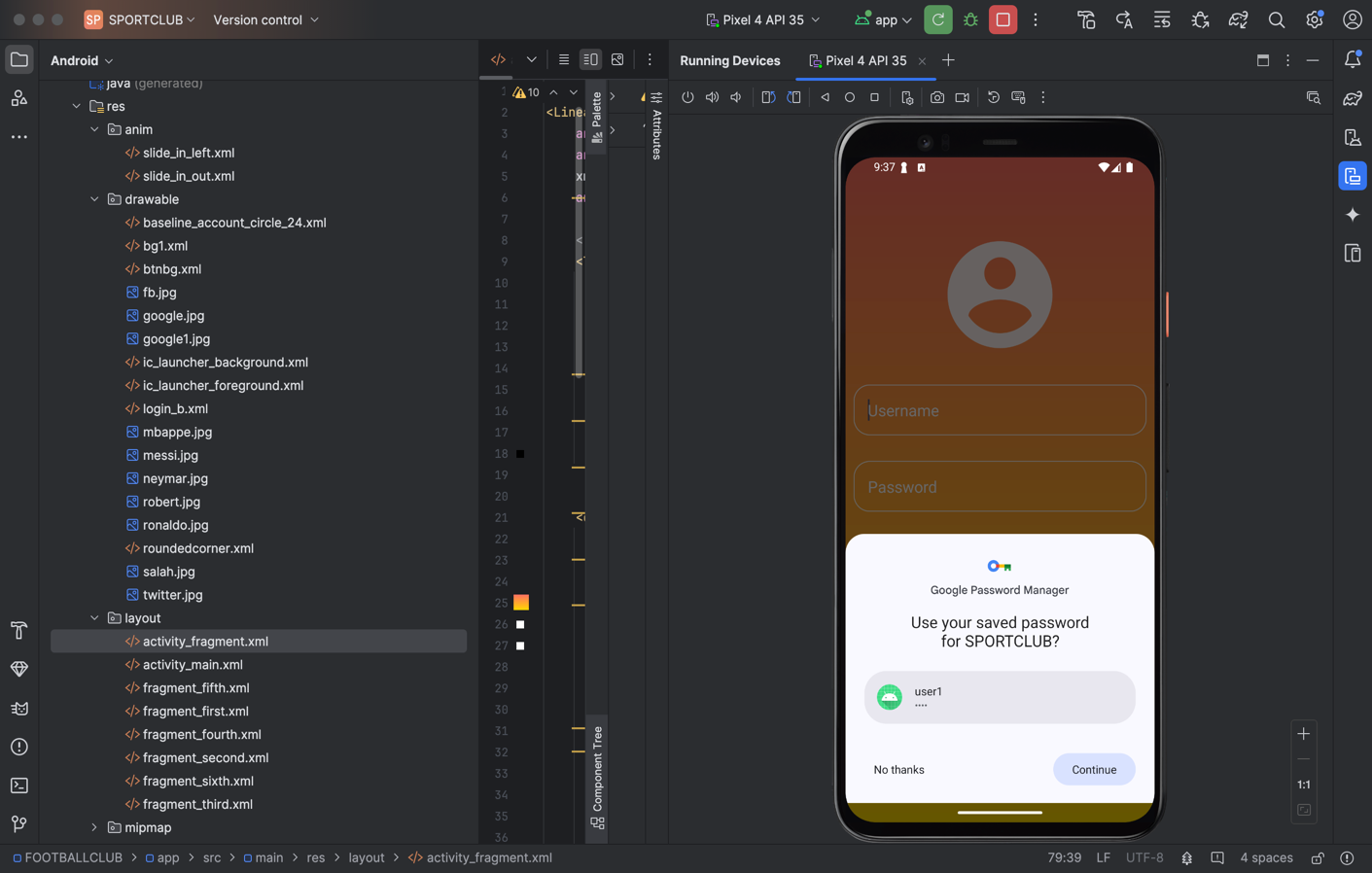
**SCREENSHOTS**

Classes & actvities

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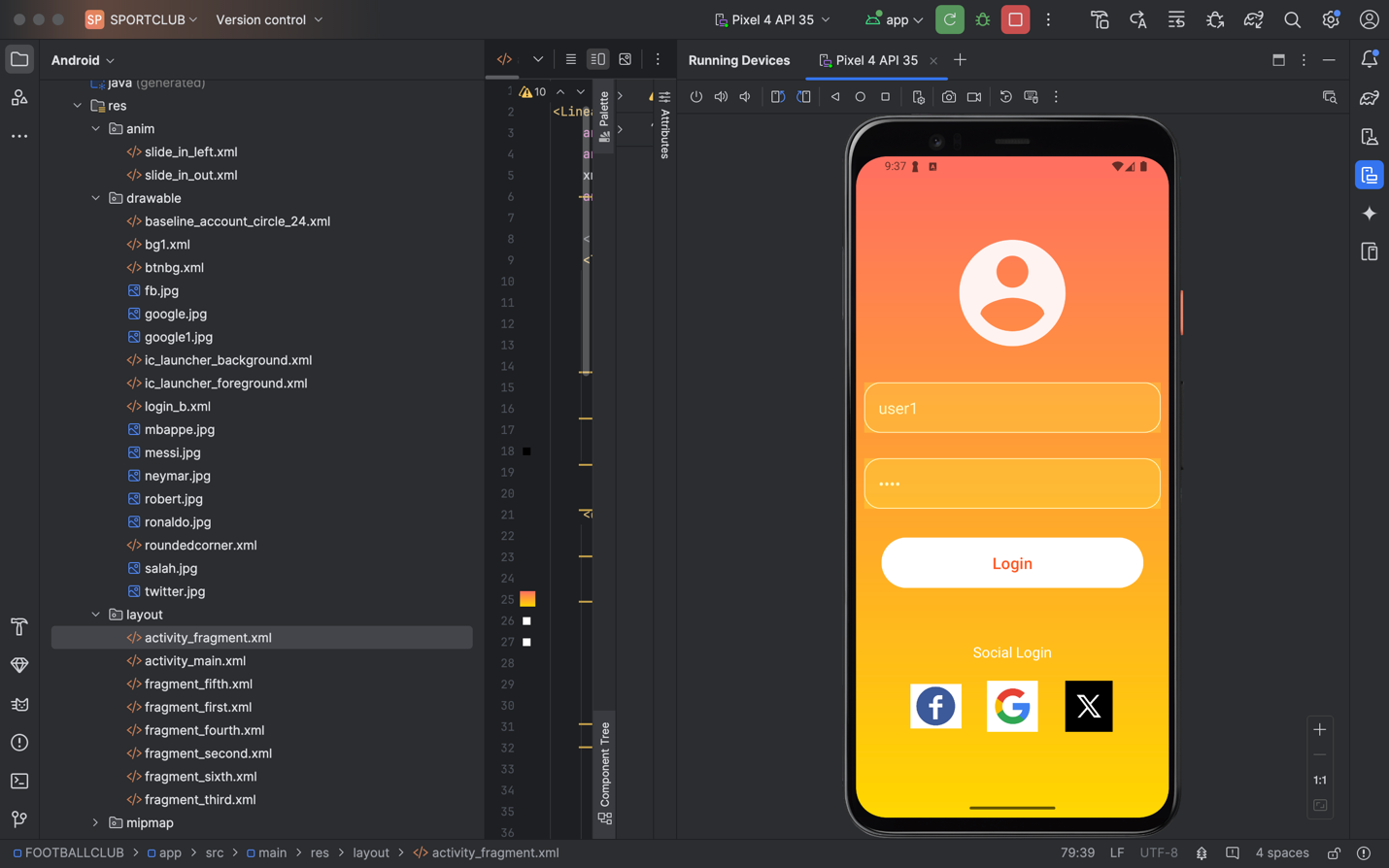
Animations



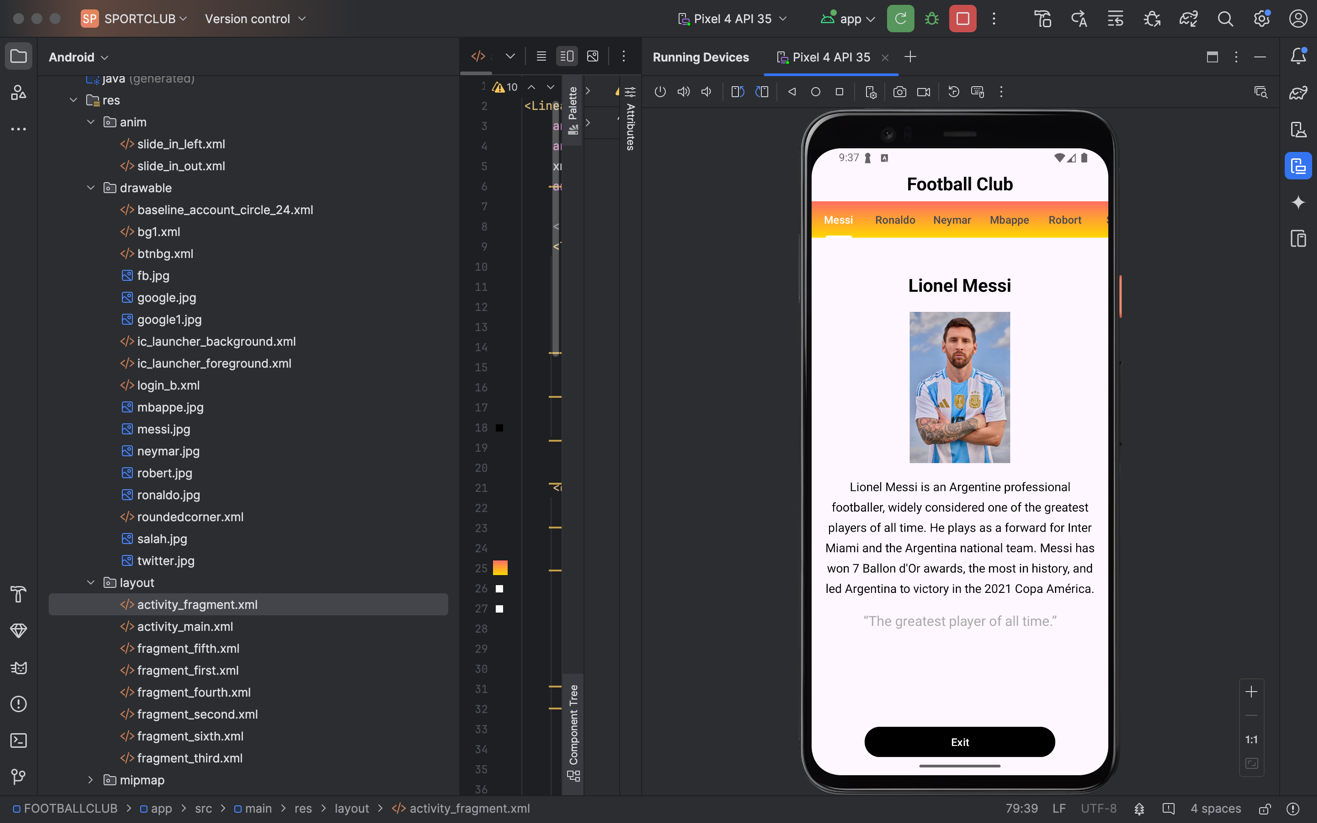


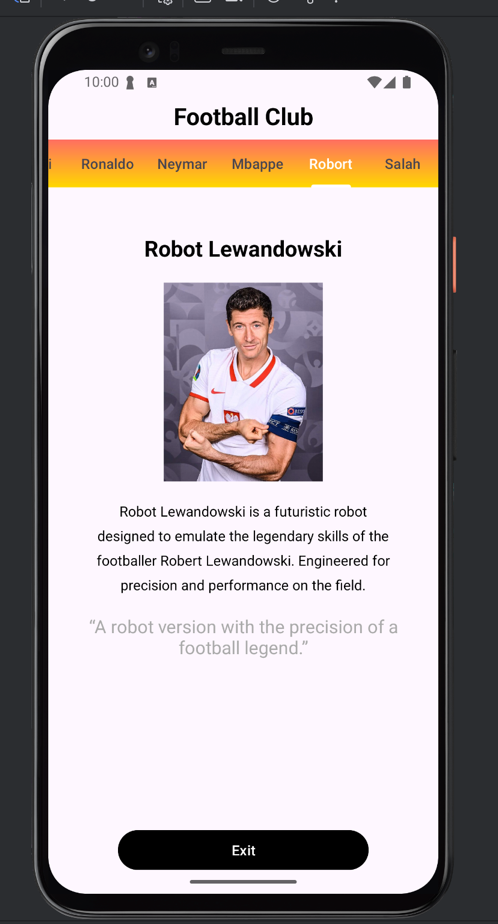
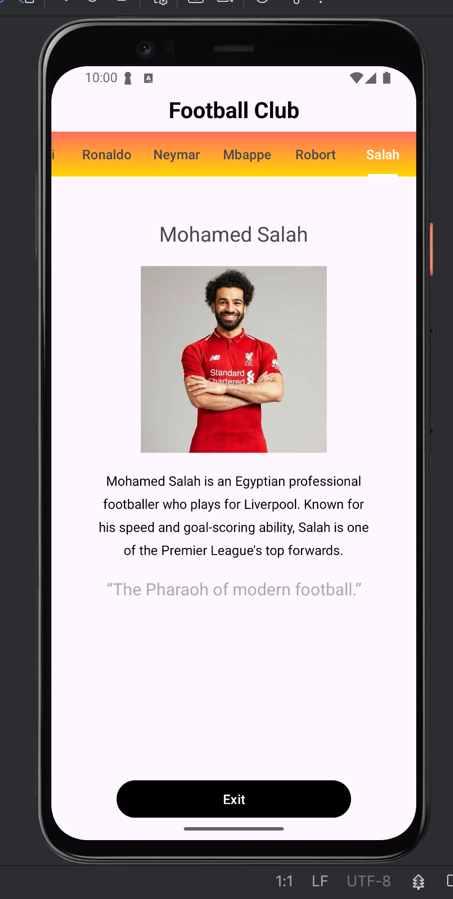
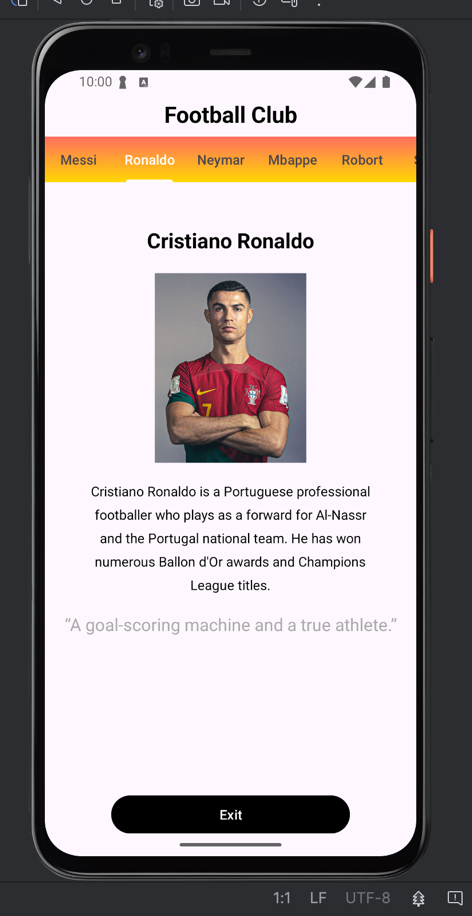
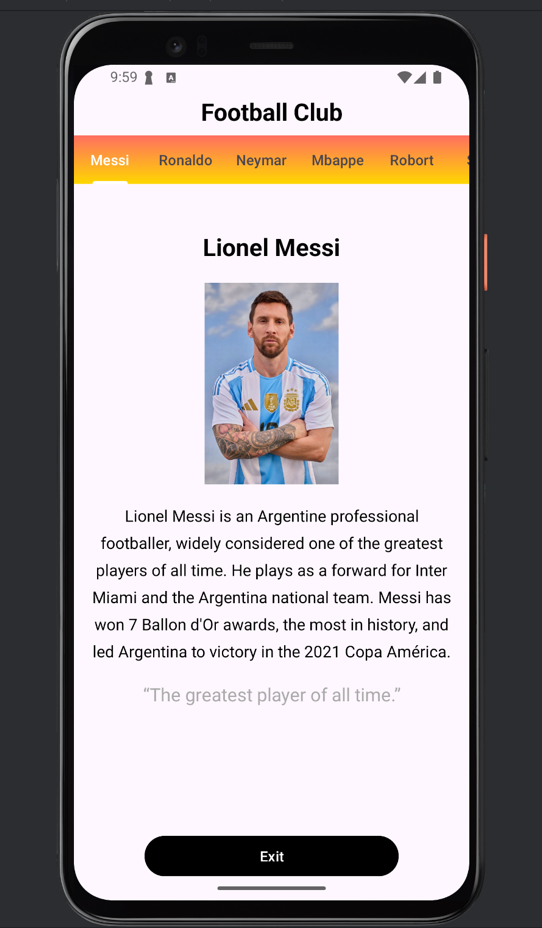
Username- user1

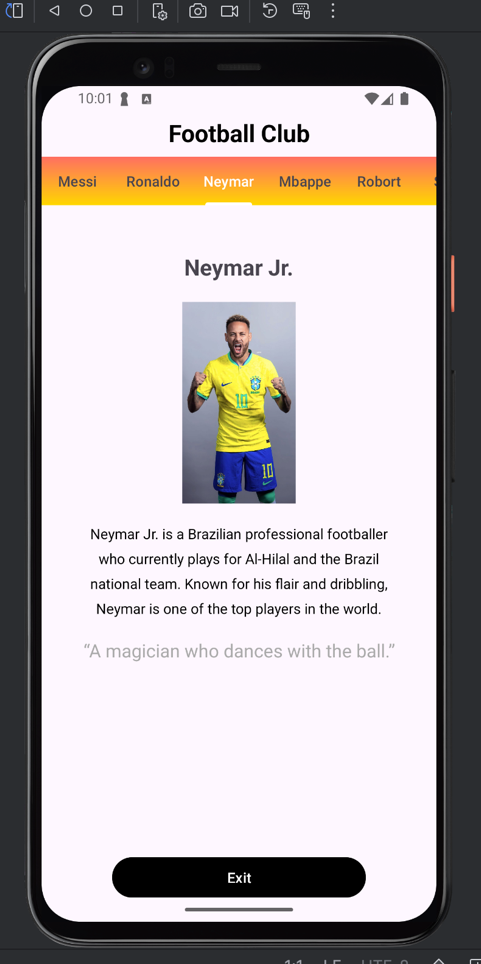
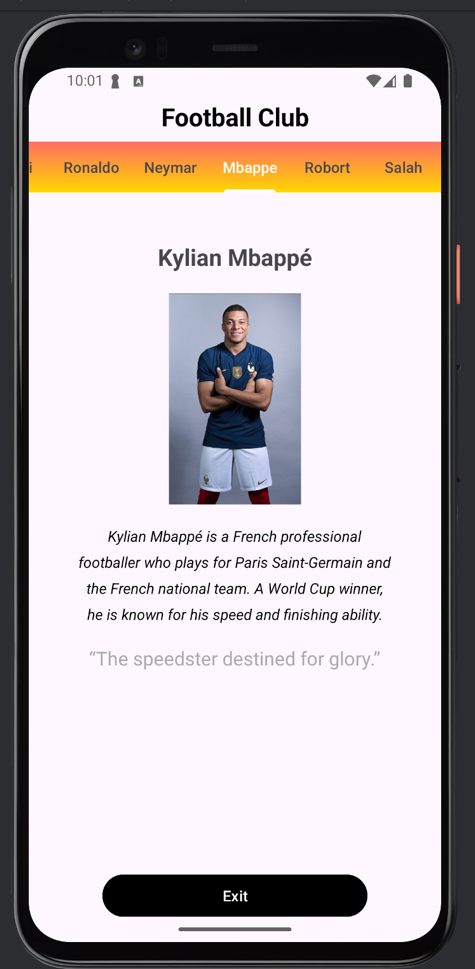
Pw-1234



**AFTER LOGGING**







**FRAGMENT ACTIVITY CODE (TO MANAGE FRAGMENTS)**

package com.example.sportclub  
  
import android.os.Bundle  
import android.widget.Button  
import android.widget.FrameLayout  
import androidx.activity.enableEdgeToEdge  
import androidx.appcompat.app.AppCompatActivity  
import androidx.fragment.app.Fragment  
import com.google.android.material.tabs.TabLayout  
  
class FragmentActivity : AppCompatActivity() {  
  
 private lateinit var tabLayout: TabLayout  
 private lateinit var frameLayout: FrameLayout  
  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *enableEdgeToEdge*()  
  
 setContentView(R.layout.*activity\_fragment*)  
  
 tabLayout = findViewById(R.id.*tablayout*)  
 frameLayout = findViewById(R.id.*framelayout*)  
  
  
 loadFragment(FirstFragment(), false)  
  
  
 tabLayout.addOnTabSelectedListener(object : TabLayout.OnTabSelectedListener {  
 override fun onTabSelected(tab: TabLayout.Tab?) {  
 val fragment: Fragment = when (tab?.*position*) {  
 0 -> FirstFragment()  
 1 -> SecondFragment()  
 2 -> ThirdFragment()  
 3 -> FourthFragment()  
 4 -> FifthFragment()  
 5 -> SixthFragment()  
 else -> FirstFragment()  
 }  
 loadFragment(fragment, false)  
 }  
  
 override fun onTabUnselected(tab: TabLayout.Tab?) {}  
 override fun onTabReselected(tab: TabLayout.Tab?) {}  
 })  
 val exitButton: Button = findViewById(R.id.*exit\_button*)  
 exitButton.setOnClickListener **{** finish()  
 **}** }  
  
 private fun loadFragment(fragment: Fragment, animate: Boolean) {  
 val transaction = *supportFragmentManager*.beginTransaction()  
  
 if (animate) {  
 transaction.setCustomAnimations(  
 R.anim.*slide\_in\_left*,  
 R.anim.*slide\_in\_out* )  
 }  
  
 transaction.replace(R.id.*framelayout*, fragment)  
 transaction.commit()  
 }  
}

**MAIN ACTIVITY CODE ( FOR LOGGING PART)**

package com.example.sportclub  
  
import android.content.Intent  
import android.os.Bundle  
import android.widget.Button  
import android.widget.EditText  
import android.widget.Toast  
import androidx.activity.enableEdgeToEdge  
import androidx.appcompat.app.AppCompatActivity  
import androidx.core.view.ViewCompat  
import androidx.core.view.WindowInsetsCompat  
  
class MainActivity : AppCompatActivity() {  
  
 private lateinit var usernameEditText: EditText  
 private lateinit var passwordEditText: EditText  
 private lateinit var loginButton: Button  
  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *enableEdgeToEdge*()  
 setContentView(R.layout.*activity\_main*)  
  
  
 usernameEditText = findViewById(R.id.*username*)  
 passwordEditText = findViewById(R.id.*password*)  
 loginButton = findViewById(R.id.*login\_button*)  
  
  
 loginButton.setOnClickListener **{** val username = usernameEditText.*text*.toString()  
 val password = passwordEditText.*text*.toString()  
  
  
 if (username == "user1" && password == "1234") {  
  
 val intent = Intent(this, FragmentActivity::class.*java*)  
 startActivity(intent)  
 finish()  
 } else {  
  
 Toast.makeText(this, "Invalid credentials, please try again.", Toast.*LENGTH\_SHORT*).show()  
  
  
 usernameEditText.*error* = "Invalid username"  
 passwordEditText.*error* = "Invalid password"  
 }  
 **}** ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.*main*)) **{** v, insets **->** val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())  
 v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)  
 insets  
 **}** }  
}

**ACTIVITY FRAGMENT LAYOUT**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 android:orientation="vertical">  
  
   
 <TextView  
 android:id="@+id/title\_footballclub"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Football Club"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 android:gravity="center"  
 android:layout\_marginTop="30dp"  
 android:textColor="@android:color/black" />  
  
  
 <com.google.android.material.tabs.TabLayout  
 android:id="@+id/tablayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:background="@drawable/bg1"  
 app:tabIndicatorColor="@color/white"  
 app:tabSelectedTextColor="@color/white"  
 android:layout\_marginTop="8dp"  
 app:tabGravity="fill"  
 app:tabMode="scrollable">  
  
 <com.google.android.material.tabs.TabItem  
 android:id="@+id/tab1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Messi" />  
  
 <com.google.android.material.tabs.TabItem  
 android:id="@+id/tab2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Ronaldo" />  
  
 <com.google.android.material.tabs.TabItem  
 android:id="@+id/tab3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Neymar" />  
  
 <com.google.android.material.tabs.TabItem  
 android:id="@+id/tab4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Mbappe" />  
  
 <com.google.android.material.tabs.TabItem  
 android:id="@+id/tab5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Robort" />  
  
 <com.google.android.material.tabs.TabItem  
 android:id="@+id/tab6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Salah" />  
 </com.google.android.material.tabs.TabLayout>  
  
  
 <FrameLayout  
 android:id="@+id/framelayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="0dp"  
 android:layout\_weight="1" />  
  
 <Button  
 android:id="@+id/exit\_button"  
 android:layout\_marginStart="70dp"  
 android:layout\_marginEnd="70dp"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Exit"  
 android:layout\_marginBottom="20dp"  
 android:layout\_gravity="center"  
 android:onClick="exitApp"  
 android:backgroundTint="@color/black"  
 />  
  
</LinearLayout>

**ACTIVITY MAIN LAYOUT CODE**

**<?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:id="@+id/main"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"  
 android:background="@drawable/login\_b"  
 android:gravity="center"  
 android:padding="16dp">  
  
  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:gravity="center"  
 android:orientation="vertical">  
  
 <ImageView  
 android:layout\_width="160dp"  
 android:layout\_height="160dp"  
 android:src="@drawable/baseline\_account\_circle\_24" />  
  
 <EditText  
 android:id="@+id/username"  
 android:layout\_marginTop="32dp"  
 android:padding="18dp"  
 android:inputType="text"  
 android:textColorHint="@color/white"  
 android:textColor="@color/white"  
 android:hint="Username"  
 android:textSize="20sp"  
 android:layout\_marginEnd="10dp"  
 android:layout\_marginStart="10dp"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:background="@drawable/roundedcorner" />  
  
 <EditText  
 android:layout\_marginEnd="10dp"  
 android:layout\_marginStart="10dp"  
 android:id="@+id/password"  
 android:layout\_marginTop="32dp"  
 android:padding="18dp"  
 android:inputType="textPassword"  
 android:textColorHint="@color/white"  
 android:textColor="@color/white"  
 android:hint="Password"  
 android:textSize="20sp"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:background="@drawable/roundedcorner" />  
  
 <Button  
 android:id="@+id/login\_button"  
 android:text="Login"  
 android:textSize="20sp"  
 android:textColor="#FF5722"  
 android:backgroundTint="@color/white"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:padding="18dp"  
 android:layout\_margin="32dp" />  
  
 <TextView  
 android:text="Social Login"  
 android:textSize="18sp"  
 android:textColor="@color/white"  
 android:layout\_marginTop="32dp"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content" />  
  
 <LinearLayout  
 android:orientation="horizontal"  
 android:gravity="center"  
 android:layout\_marginTop="8dp"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content">  
  
 <ImageView  
 android:id="@+id/fb\_btn"  
 android:layout\_width="64dp"  
 android:layout\_height="64dp"  
 android:layout\_margin="16dp"  
 android:src="@drawable/fb" />  
 <ImageView  
 android:id="@+id/google\_btn"  
 android:layout\_width="64dp"  
 android:layout\_height="64dp"  
 android:layout\_margin="16dp"  
 android:src="@drawable/google" />  
 <ImageView  
 android:id="@+id/twitter\_btn"  
 android:layout\_width="64dp"  
 android:layout\_height="64dp"  
 android:layout\_margin="16dp"  
 android:src="@drawable/twitter" />  
 </LinearLayout>  
 </LinearLayout>  
</RelativeLayout>**

**FIRST FRAGMENT LAYOUT**

<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/fragment2"  
 tools:context=".SecondFragment">  
  
  
 <RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="16dp">  
  
  
 <TextView  
 android:id="@+id/text"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Lionel Messi"  
 android:textSize="24sp"  
 android:textColor="@android:color/black"  
 android:textStyle="bold"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="30dp" />  
  
  
 <ImageView  
 android:id="@+id/image\_messi"  
 android:layout\_width="250dp"  
 android:layout\_height="200dp"  
 android:layout\_below="@id/text"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="20dp"  
 android:src="@drawable/messi" />  
  
  
 <TextView  
 android:id="@+id/text2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Lionel Messi is an Argentine professional footballer, widely considered one of the greatest players of all time. He plays as a forward for Inter Miami and the Argentina national team. Messi has won 7 Ballon d'Or awards, the most in history, and led Argentina to victory in the 2021 Copa América."  
 android:textSize="16sp"  
 android:textColor="@android:color/black"  
 android:lineSpacingExtra="8dp"  
 android:textAlignment="center"  
 android:layout\_below="@id/image\_messi"  
 android:layout\_marginTop="20dp" />  
  
  
 <TextView  
 android:id="@+id/quote\_text"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="“The greatest player of all time.”"  
 android:textSize="18sp"  
 android:textColor="@android:color/darker\_gray"  
 android:textAlignment="center"  
 android:layout\_below="@id/text2"  
 android:layout\_marginTop="20dp"  
 android:layout\_centerHorizontal="true" />  
  
  
  
 </RelativeLayout>  
  
</FrameLayout>