Mobile Application Development

Assignment 1

HND in Software Engineering

24.1F

KUHDSE241F-019 – H.M.D.M.HERATH
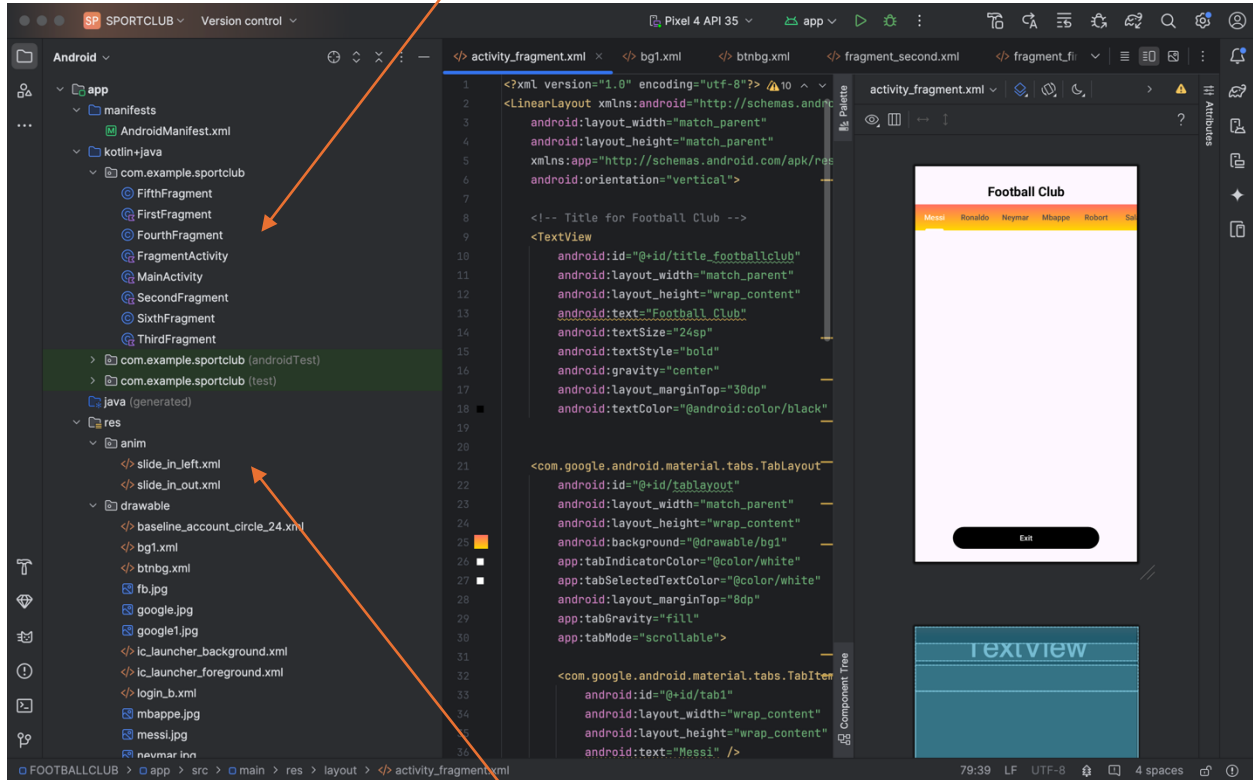
KUHDSE241F-020 – S.M.W.U.SAMARAKOON
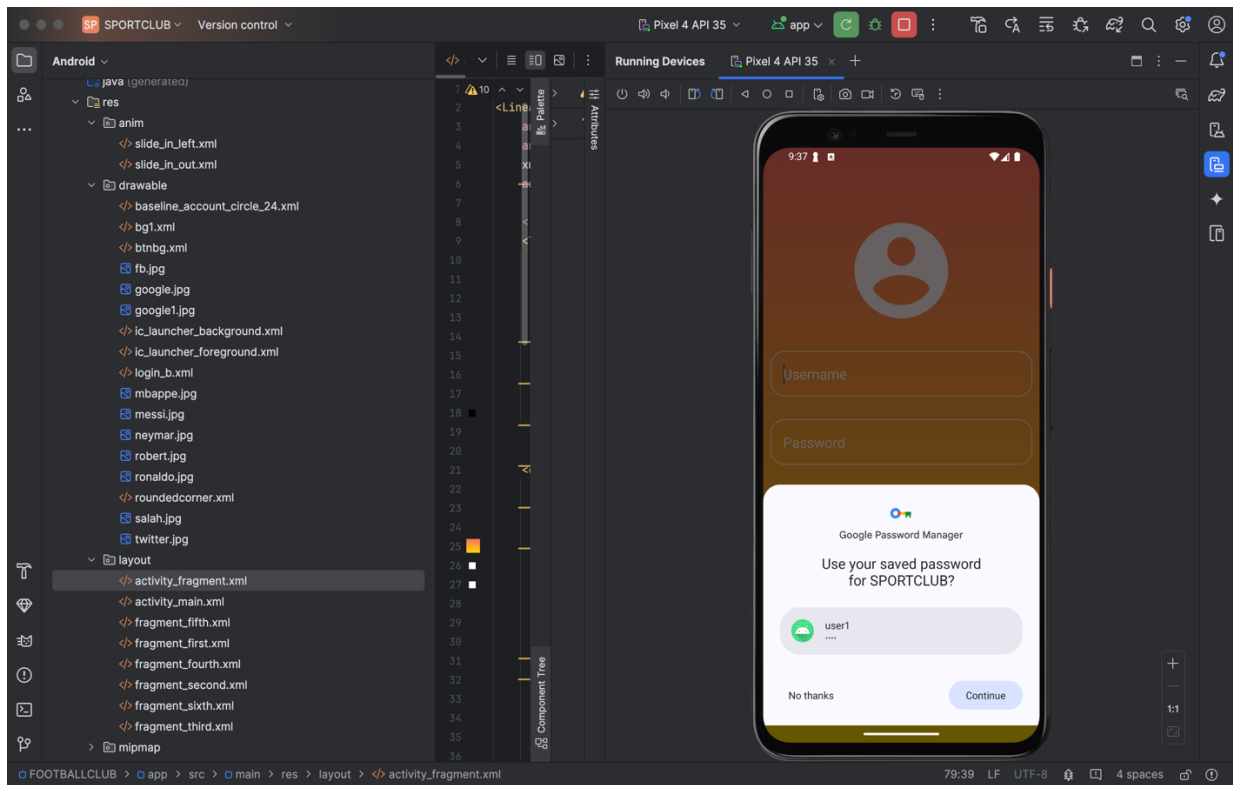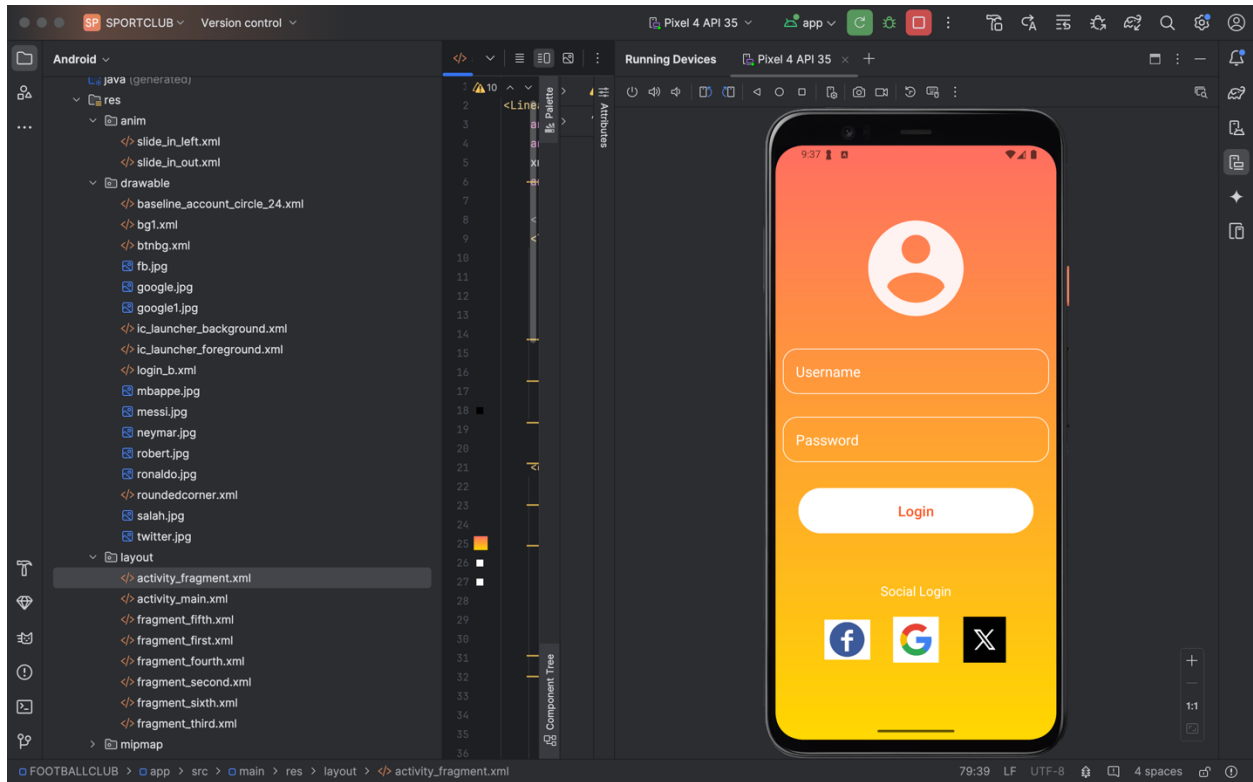
2024

School of Computing and Engineering
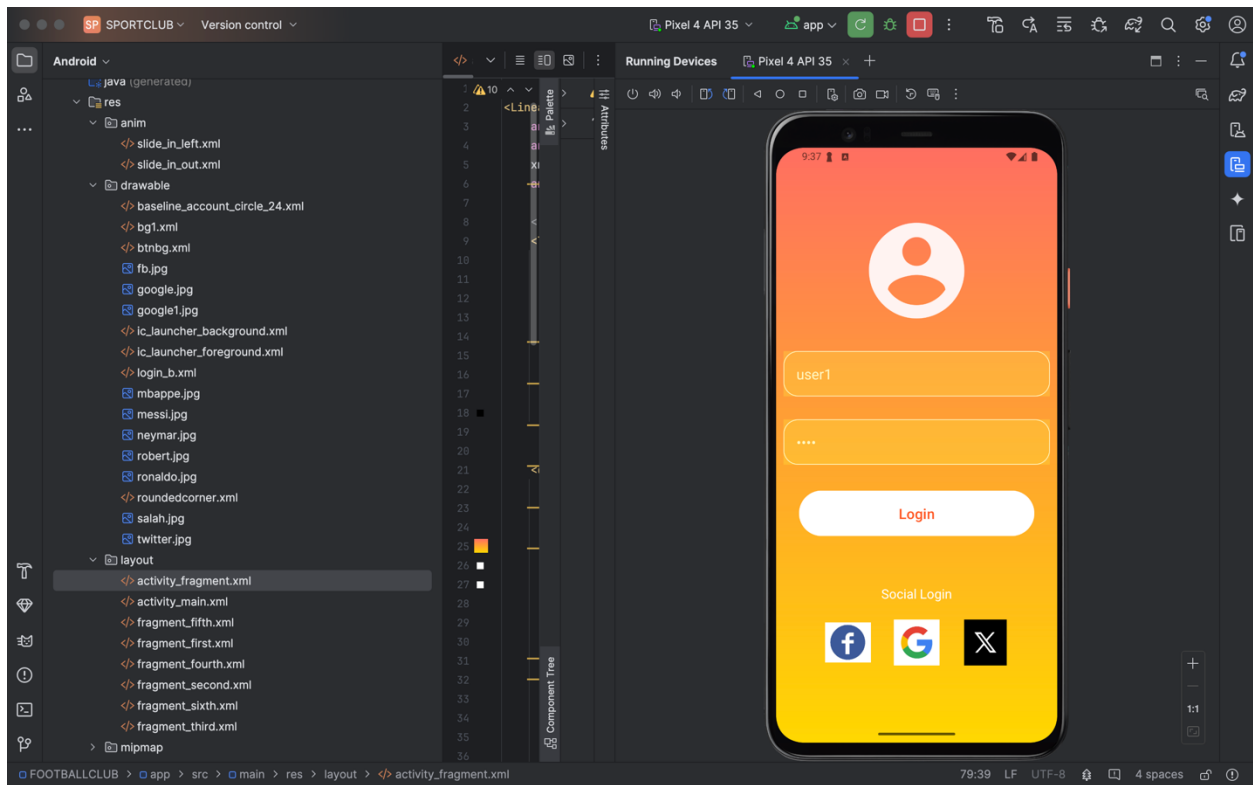**National Institute of Business Management**
Kurunegala

SCREENSHOTS

Classes & actvities

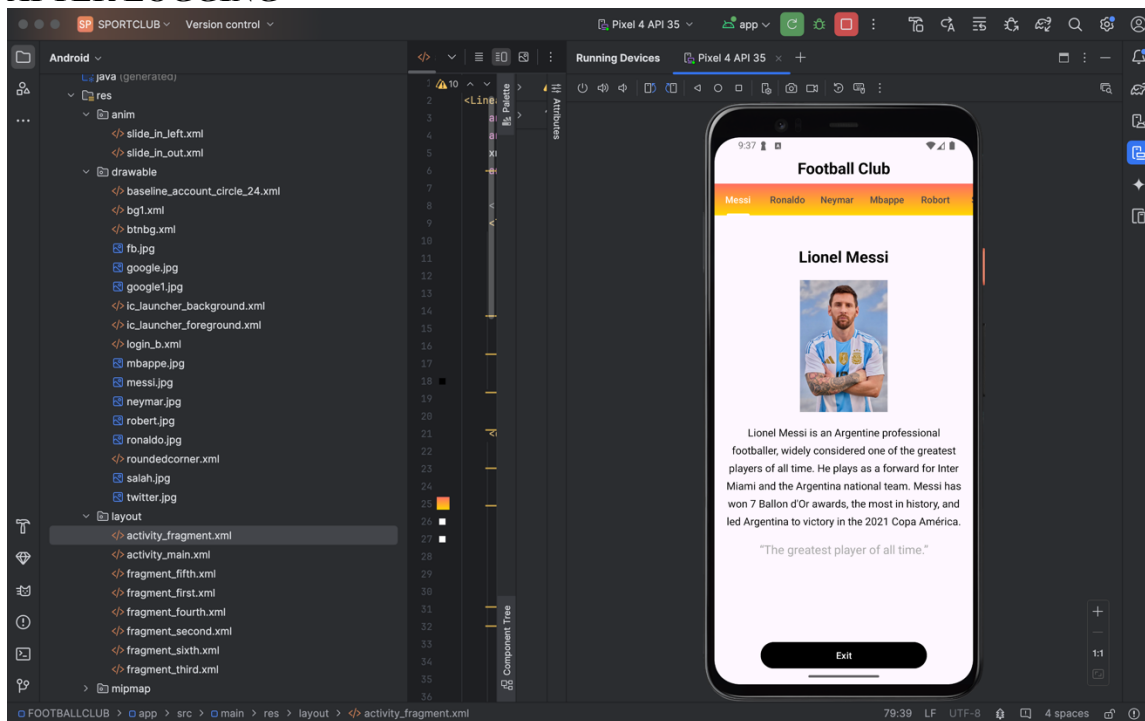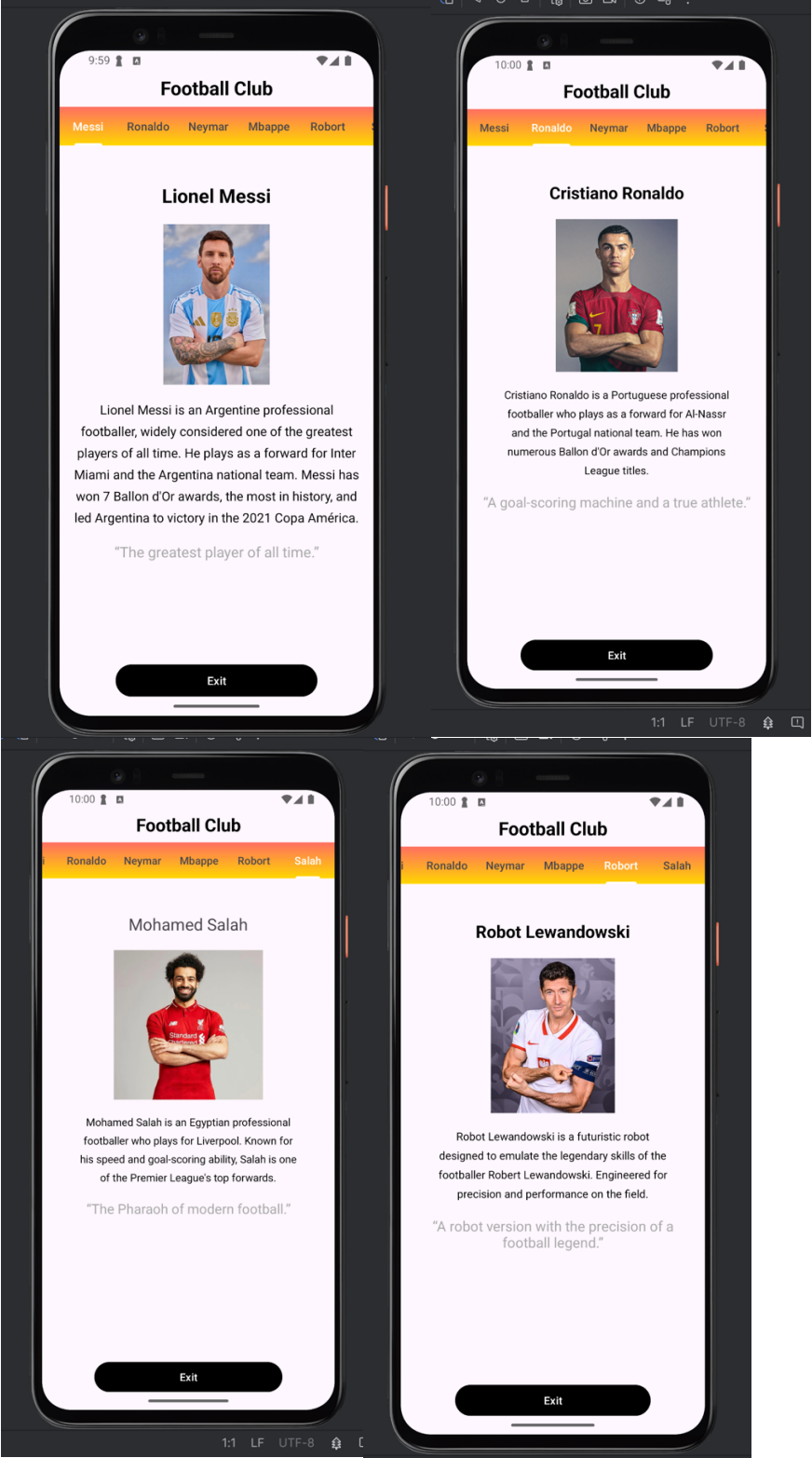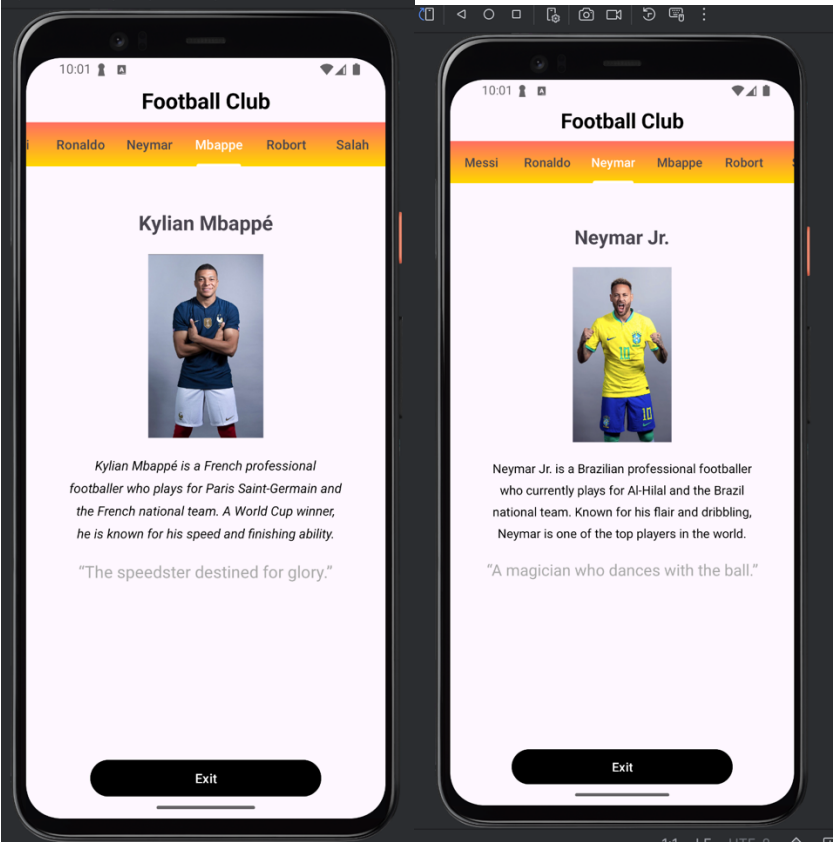Animations

Username- user1
Pw-1234

AFTER LOGGING

Screen 1 — Lionel Messi

Football Club

Messi | Ronaldo | Neymar | Mbappe | Robort | S

Lionel Messi

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.

"The greatest player of all time."

Exit

Screen 2 — Cristiano Ronaldo

Football Club

Messi | Ronaldo | Neymar | Mbappe | Robort | S

Cristiano Ronaldo

Cristiano Ronaldo is a Portuguese professional footballer who plays as a forward for Al-Nassr and the Portugal national team. He has won numerous Ballon d'Or awards and Champions League titles.

"A goal-scoring machine and a true athlete."

Exit

Screen 3 — Mohamed Salah

Football Club

Ronaldo | Neymar | Mbappe | Robort | Salah

Mohamed Salah

Mohamed Salah is an Egyptian professional footballer who plays for Liverpool. Known for his speed and goal-scoring ability, Salah is one of the Premier League's top forwards.

"The Pharaoh of modern football."

Exit

Screen 4 — Robot Lewandowski

Football Club

Ronaldo | Neymar | Mbappe | Robort | Salah

Robot Lewandowski

Robot Lewandowski is a futuristic robot designed to emulate the legendary skills of the footballer Robert Lewandowski. Engineered for precision and performance on the field.

"A robot version with the precision of a football legend."

Exit

FRAGMENT ACTIVITY CODE (TO MANAGE FRAGMENTS)

```kotlin
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?) {}
        })
```

```kotlin
        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)

```kotlin
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
```

```kotlin
    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
<?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" />
```

```xml
        <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
<?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"
```

```xml
    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"
```

```xml
            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

```xml
<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" />
```

```xml
    <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>
```