

Practical: 4

AIM- Create UI by using ConstraintLayout, LinearLayout, in one android application. Create two activities LoginActivity by using ConstraintLayout and RegistrationActivity by using LinearLayout & use Explicit Intent to move from one activity to another activity.

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Activity main.xml :-

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.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"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/Signup"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="136dp"
        android:layout_marginTop="152dp"
        android:text="Sign up"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/Loginbtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="140dp"
        android:layout_marginTop="92dp"
        android:text="Login"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Activity login.xml :-

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.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"
    tools:context=".MainActivity">
```

Practical: 4

```
<ImageView
    android:id="@+id/imageView2"
    android:layout_width="match_parent"
    android:layout_height="200dp"
    app:layout_constraintTop_toTopOf="parent"
    app:srcCompat="@drawable/guni_pink_logo" />

<com.google.android.material.card.MaterialCardView
    android:id="@+id/materialCardView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginHorizontal="20dp"
    app:cardCornerRadius="30dp"
    app:cardElevation="20dp"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@id/imageView2">

<androidx.constraintlayout.widget.ConstraintLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="20dp">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Email Id"
        app:layout_constraintBaseline_toBaselineOf="@+id/editTextTextEmailAddress"
        app:layout_constraintStart_toStartOf="parent" />

    <EditText
        android:id="@+id/editTextTextEmailAddress"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textEmailAddress"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/textView"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/editTextTextPassword2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

Practical: 4

```
        android:ems="10"
        android:inputType="textPassword"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.405"

        app:layout_constraintStart_toEndOf="@+id/textView3"
        app:layout_constraintTop_toBottomOf="@+id/editTextTextEmailAddress" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Password"
    app:layout_constraintBaseline_toBaselineOf="@+id/editTextTextPassword2"
    app:layout_constraintStart_toStartOf="parent" />

<TextView
    android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
    android:text="Forgot Password?"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView3" />

<Button
    android:id="@+id/login_btn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"

    android:text="Login"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView5" />

</androidx.constraintlayout.widget.ConstraintLayout>
</com.google.android.material.card.MaterialCardView>

<TextView
    android:id="@+id/textView7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="64dp"
    android:layout_marginEnd="8dp"
    android:text="Don't have an account?"
```

Practical: 4

```
app:layout_constraintEnd_toStartOf="@+id/signUp_btn"
app:layout_constraintTop_toBottomOf="@+id/materialCardView" />
```

```
<Button
    android:id="@+id/signUp_btn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="48dp"
    android:layout_marginEnd="72dp"
    android:background="#00ffffff"
    android:text="SIGN UP"
    android:textColor="#ff1493"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/materialCardView" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

Activity_registration.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"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".RegistationActivity">

    <ImageView
        android:layout_width="match_parent"
        android:layout_height="200dp"
        app:srcCompat="@drawable/guni_pink_logo"/>

    <com.google.android.material.card.MaterialCardView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        app:cardElevation="20dp"
        app:cardCornerRadius="25dp"
        android:layout_marginHorizontal="20dp">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
```

Practical: 4

```
android:orientation="vertical"
android:padding="20dp" >
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<TextView
    android:layout_weight="0.3"
    android:layout_width="0dp"
    android:textStyle="bold"
    android:layout_height="wrap_content"
    android:text="User Full Name"/>
```

```
<EditText
    android:layout_width="198dp"
    android:layout_height="wrap_content"
    android:inputType="text"/>
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<TextView
    android:layout_weight="0.3"
    android:layout_width="0dp"
    android:textStyle="bold"
    android:layout_height="wrap_content"
    android:text="Phone Number"/>
```

```
<EditText
    android:layout_width="195dp"
    android:layout_height="wrap_content"
    android:inputType="text"
/>
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

Practical: 4

```
<TextView
    android:layout_weight="0.3"
    android:layout_width="0dp"
    android:textStyle="bold"
    android:layout_height="wrap_content"
    android:text="City"/>
```

```
<EditText
    android:layout_width="195dp"
    android:layout_height="wrap_content"
    android:inputType="text"/>
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<TextView
    android:layout_weight="0.3"
    android:layout_width="0dp"
    android:textStyle="bold"
    android:layout_height="wrap_content"
    android:text="Email"/>
```

```
<EditText
    android:layout_width="195dp"
    android:layout_height="wrap_content"
    android:inputType="text"/>
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<TextView
    android:layout_weight="0.3"
    android:layout_width="0dp"
    android:textStyle="bold"
    android:layout_height="wrap_content"
    android:text="Password"/>
```

```
<EditText
    android:layout_width="195dp"
```

Practical: 4

```
        android:layout_height="wrap_content"
        android:inputType="textPassword" />

</LinearLayout>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">

    <TextView
        android:layout_weight="0.3"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:textStyle="bold"
        android:text="Confirm Password"/>

    <EditText
        android:layout_width="195dp"
        android:layout_height="wrap_content"
        android:inputType="textPassword" />

</LinearLayout>

</LinearLayout>

</com.google.android.material.card.MaterialCardView>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_gravity="center"
    android:elevation="30dp"
    android:layout_marginTop="-20dp"
    android:layout_height="wrap_content">

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Register"/>

</LinearLayout>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:paddingTop="40dp"
```


Practical: 4

```
android:orientation="horizontal">
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Do not have an account?"
    android:textStyle="bold"
    android:textSize="15sp"/>
```

```
<Button
    android:id="@+id/Loginbtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="20dp"
    android:textSize="15sp"
    android:text="LOGIN"
    android:textColor="#AA336A"
    android:backgroundTint="#00FFFFFF"
/>
```

```
</LinearLayout>
```

```
</LinearLayout>
```

MainActivity.kt :-

```
package com.example.mad_practical_4_21012021031
```

```
import android.content.Intent
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button
```

```
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
```

```
        val Login: Button = findViewById(R.id.Loginbtn)
        val Signup: Button = findViewById(R.id.Signup)
```

```
        Login.setOnClickListener {
            Intent(this@MainActivity, LoginActivity::class.java).also { startActivity(it) }
```

Practical: 4

```
    }

    Signup.setOnClickListener {
        Intent(this@MainActivity, RegistrationActivity::class.java).also { startActivity(it) }
    }
}
}
```

LoginActivity.kt :-

```
package com.example.mad_practical_4_21012021031

import android.content.Intent
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button

class LoginActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_login)

        val Signup: Button = findViewById(R.id.signUp_btn)

        Signup.setOnClickListener {
            Intent(this@LoginActivity, RegistrationActivity::class.java).also { startActivity(it) }
        }
    }
}
```

RegistrationActivity.kt :-

```
package com.example.mad_practical_4_21012021031

import android.content.Intent
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button

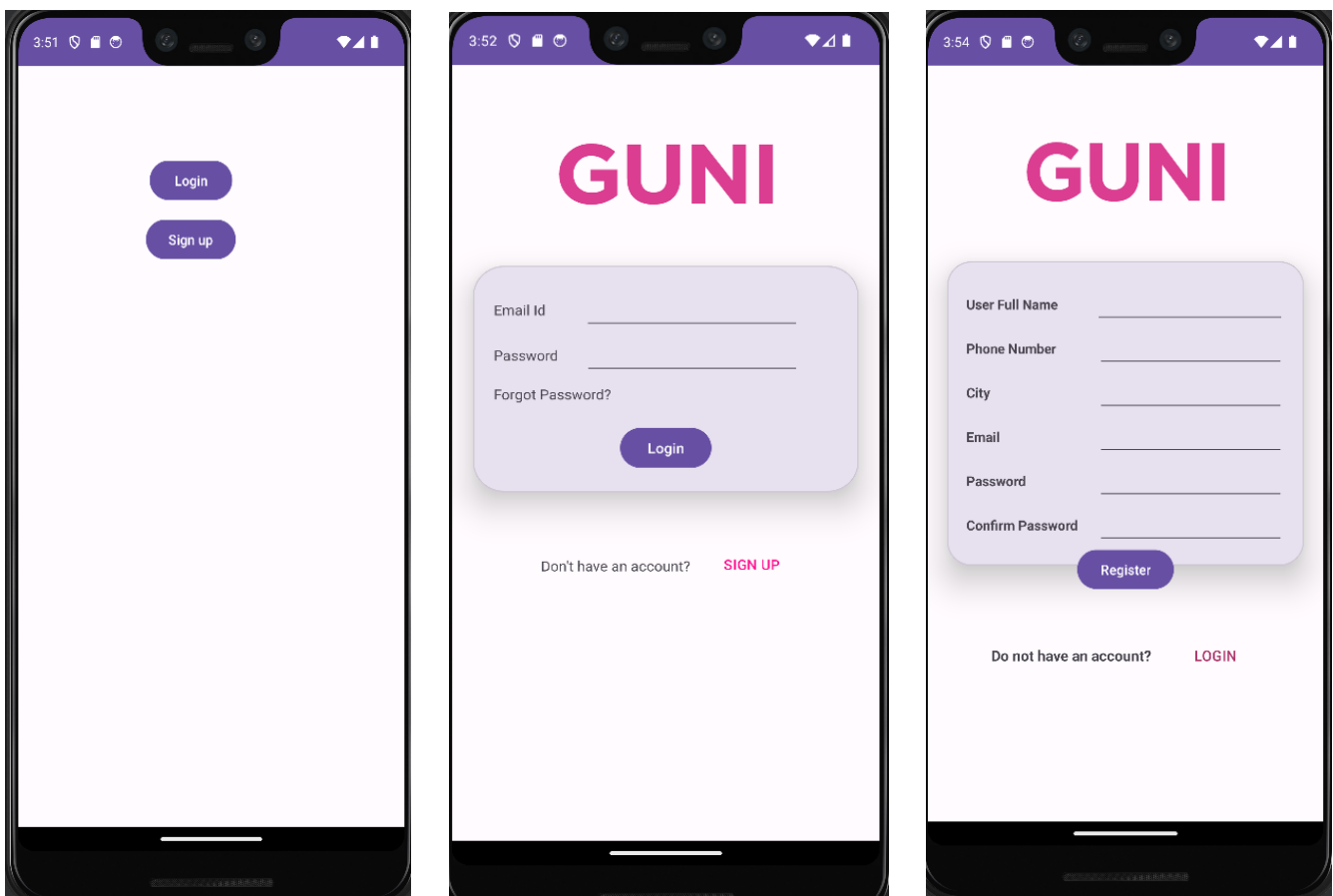
class RegistrationActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_registration)
    }
}
```

Practical: 4

```
val Login: Button = findViewById(R.id.Loginbtn)
Login.setOnClickListener {
    Intent(this@RegistrationActivity, LoginActivity::class.java).also { startActivity(it) }
}
}
```

Output :-

LIGHT THEME



Practical: 4

DARK THEME

