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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/login"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Login"
        android:textSize="18sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/signup"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Sign Up"
        android:textSize="18sp"
        app:layout_constraintEnd_toEndOf="@+id/login"
        app:layout_constraintStart_toStartOf="@+id/login"
        app:layout_constraintTop_toBottomOf="@+id/login" />
</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=".LoginActivity">
```

```
<ImageView
    android:id="@+id/imageView"
    android:layout_width="match_parent"
    android:layout_height="200dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    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:cardElevation="20dp"
    app:cardCornerRadius="20dp"
    app:layout_constraintTop_toBottomOf="@id/imageView">
```

```
<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"
    android:textSize="18sp"
    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" />
```

```
<TextView
```

```
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Password"
        android:textSize="18sp"
        app:layout_constraintBaseline_toBaselineOf="@+id/editTextTextPassword"
        app:layout_constraintStart_toStartOf="parent" />

<EditText
    android:id="@+id/editTextTextPassword"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPassword"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/textView2"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextEmailAddress" />

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="50dp"
    android:text="Login"
    android:textStyle="bold"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView3" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="50dp"
    android:text="Forgot Password?"
    android:textSize="18sp"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView2" />
</androidx.constraintlayout.widget.ConstraintLayout>
</com.google.android.material.card.MaterialCardView>

<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="30dp"
    android:layout_marginEnd="125dp"
```

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```
android:text="Don't have an account?"
android:textSize="18sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/materialCardView" />
```

```
<Button
    android:id="@+id/signup"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="18dp"
    android:background="#00414141"
    android:text="SIGN UP"
    android:textColor="#DB3D91"
    android:textSize="20sp"
    android:textStyle="bold"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.2"
    app:layout_constraintStart_toEndOf="@+id/textView4"
    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"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:orientation="vertical"
    tools:context=".RegistrationActivity">

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

    <com.google.android.material.card.MaterialCardView
        android:id="@+id/materialCardView"
        android:layout_width="match_parent"
        android:layout_height="320dp"
```

```
android:layout_marginHorizontal="20dp"
app:cardElevation="20dp"
app:cardCornerRadius="20dp">
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:padding="15dp">
```

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

```
<TextView
    android:layout_weight="0.5"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:text="User Full Name"
    android:textSize="18sp"/>
```

```
<EditText
    android:layout_weight="0.5"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:inputType="text"
    android:layout_marginHorizontal="10dp"/>
```

```
</LinearLayout>
```

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

```
<TextView
    android:layout_weight="0.5"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:text="Phone Number"
    android:textSize="18sp"/>
```

```
<EditText
    android:layout_weight="0.5"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
```

```
        android:inputType="phone"
        android:layout_marginHorizontal="10dp"/>

</LinearLayout>

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

    <TextView
        android:layout_weight="0.5"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:text="City"
        android:textSize="18sp"/>

    <EditText
        android:layout_weight="0.5"
        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:inputType="text"
        android:layout_marginHorizontal="10dp"/>

</LinearLayout>

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

    <TextView
        android:layout_weight="0.5"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:text="Email"
        android:textSize="18sp"/>

    <EditText
        android:layout_weight="0.5"
        android:layout_width="0dp"

        android:layout_height="wrap_content"
        android:inputType="textEmailAddress"
        android:layout_marginHorizontal="10dp"/>
```

```
</LinearLayout>
```

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

```
    <TextView  
        android:layout_weight="0.5"  
        android:layout_width="0dp"  
        android:layout_height="wrap_content"  
        android:text="Password"  
        android:textSize="18sp"/>
```

```
    <EditText  
        android:layout_weight="0.5"  
        android:layout_width="0dp"  
        android:layout_height="wrap_content"  
        android:inputType="textPassword"  
        android:layout_marginHorizontal="10dp"/>
```

```
</LinearLayout>
```

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

```
    <TextView  
        android:layout_weight="0.5"  
        android:layout_width="0dp"  
        android:layout_height="wrap_content"  
        android:text="Confirm Password"  
        android:textSize="18sp"/>
```

```
    <EditText  
        android:layout_weight="0.5"  
        android:layout_width="0dp"  
  
        android:layout_height="wrap_content"  
        android:inputType="textVisiblePassword"  
        android:layout_marginHorizontal="10dp"/>
```

```
</LinearLayout>
```

```
</LinearLayout>
```



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

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

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Register"
        android:textSize="20sp"
    >
</Button>
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_marginStart="50dp"
    android:layout_marginTop="30dp">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Do you have an account?"
        android:textSize="18sp"/>

    <Button
        android:id="@+id/login"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="LOGIN"
        android:textSize="20dp"
        android:textStyle="bold"
        android:layout_marginStart="5dp"
        android:background="#00FFFFFF"
        android:textColor="#DB3D91"/>
```

```
</LinearLayout>
```

```
</LinearLayout>
```

MainActivity.kt :-

```
package com.example.mad_practical_4_21012011072

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.login)
        login.setOnClickListener {
            Intent(this, LoginActivity::class.java).also { startActivity(it) }
        }

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

LoginActivity.kt :-

```
package com.example.mad_practical_4_21012011072

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)
    }
}
```

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

RegistrationActivity.kt :-

```
package com.example.mad_practical_4_21012011072

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)

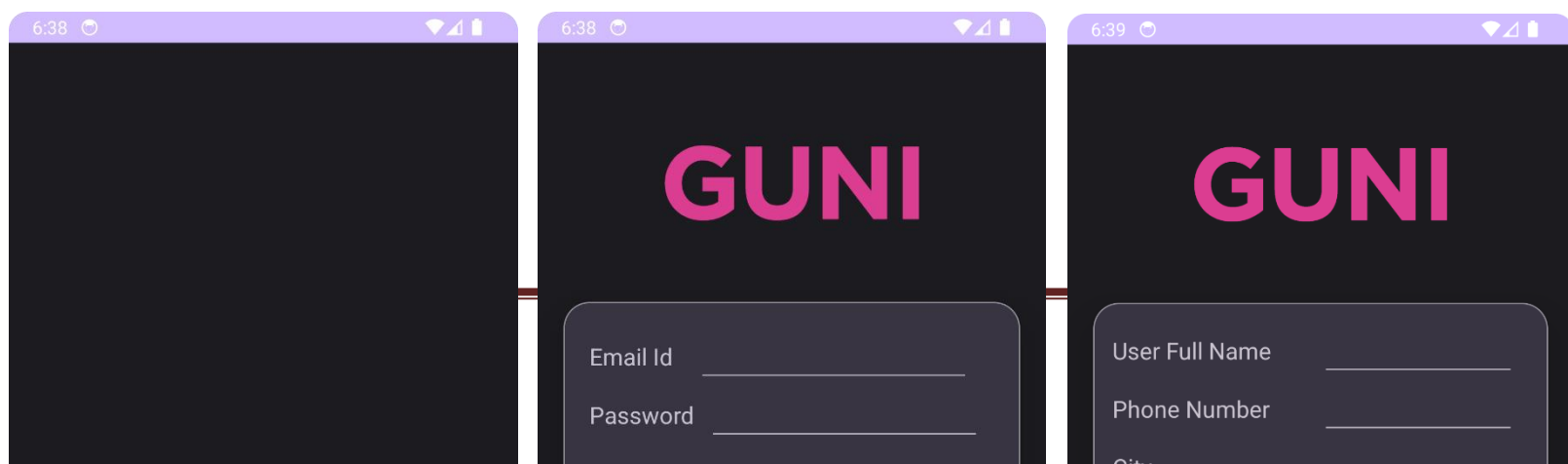
        val login: Button = findViewById(R.id.login)
        login.setOnClickListener {
            Intent(this,LoginActivity::class.java).also { startActivity(it) }
        }
    }
}
```

Output :-



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LIGHT THEME



DARK THEME