# Week 3: Develop an applicaƟon that receives user’s name, contact, city and displays the same using layout manager and event listeners

1. **With Intent:**

## acƟvity\_main.xml

<?xml version="1.0" encoding="uƞ-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="hƩp://schemas.android.com/apk/res/a ndroid"

xmlns:app="hƩp://schemas.android.com/apk/res- auto"

xmlns:tools="hƩp://schemas.android.com/tools" android:id="@+id/main" android:layout\_width="match\_parent" android:layout\_height="match\_parent" tools:context=".MainAcƟvity">

<EditText android:id="@+id/editTextText"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" android:ems="10" android:hint="Name" android:inputType="text" android:minHeight="48dp"

app:layout\_constraintBoƩom\_toBoƩomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.497" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVerƟcal\_bias="0.368" />

<EditText android:id="@+id/editTextText2" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:ems="10" android:hint="Contact" android:inputType="phone" android:minHeight="48dp"

app:layout\_constraintBoƩom\_toBoƩomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" />

<EditText android:id="@+id/editTextText3" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:ems="10"

android:hint="City" android:inputType="text" android:minHeight="48dp"

app:layout\_constraintBoƩom\_toBoƩomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.502" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVerƟcal\_bias="0.65" />

<BuƩon android:id="@+id/buƩon"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Submit" app:layout\_constraintBoƩom\_toBoƩomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVerƟcal\_bias="0.805" />

</androidx.constraintlayout.widget.ConstraintLayout>

## MainAcƟvity.java

package com.example.week3with;

import android.content.Intent; import android.os.Bundle; import android.view.View; import android.widget.BuƩon; import android.widget.EditText;

import androidx.appcompat.app.AppCompatAcƟvity;

public class MainAcƟvity extends AppCompatAcƟvity { EditText e1, e2, e3;

BuƩon b;

String name, city, phone;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.*acƟvity\_main*);

e1 = ﬁndViewById(R.id.*editTextText*); e2 = ﬁndViewById(R.id.*editTextText2*); e3 = ﬁndViewById(R.id.*editTextText3*); b = ﬁndViewById(R.id.*buƩon*);

b.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) { name = e1.getText().toString(); phone = e2.getText().toString(); city = e3.getText().toString();

Intent i = new Intent(MainAcƟvity.this, MainAcƟvity2.class);

}

});

i.putExtra("name\_key", name); i.putExtra("city\_key", city); i.putExtra("phone\_key", phone); startAcƟvity(i);

}

}

## acƟvity\_main2.xml

<?xml version="1.0" encoding="uƞ-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="hƩp://schemas.android.com/apk/res/a ndroid"

xmlns:app="hƩp://schemas.android.com/apk/res- auto"

xmlns:tools="hƩp://schemas.android.com/tools" android:layout\_width="match\_parent" android:layout\_height="match\_parent"

tools:context=".MainAcƟvity2">

<TextView android:id="@+id/textView"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="" app:layout\_constraintBoƩom\_toBoƩomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

## MainAcƟvity2.java

package com.example.week3with;

import android.content.Intent; import android.os.Bundle; import android.widget.TextView;

import androidx.appcompat.app.AppCompatAcƟvity;

public class MainAcƟvity2 extends AppCompatAcƟvity{ TextView t;

String name,city,phone;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.*acƟvity\_main2*); t=ﬁndViewById(R.id.*textView*);

Intent i=getIntent();

name= i.getStringExtra("name\_key"); city= i.getStringExtra("city\_key"); phone= i.getStringExtra("phone\_key"); String displayText;

displayText = "Name: " + name + "\nCity: " + city + "\nPhone: " + phone;

t.setText(displayText);

}

}

## AndroidManifest.xml

<?xml version="1.0" encoding="uƞ-8"?>

<manifest xmlns:android="hƩp://schemas.android.com/apk/res/a ndroid"

xmlns:tools="hƩp://schemas.android.com/tools">

<applicaƟon android:allowBackup="true"

android:dataExtracƟonRules="@xml/data\_extracƟon\_ru les"

android:fullBackupContent="@xml/backup\_rules" android:icon="@mipmap/ic\_launcher" android:label="@string/app\_name" android:roundIcon="@mipmap/ic\_launcher\_round" android:supportsRtl="true" android:theme="@style/Theme.Week3with" tools:targetApi="31">

<acƟvity android:name=".MainAcƟvity" android:exported="true">

<intent-ﬁlter>

<acƟon android:name="android.intent.acƟon.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-ﬁlter>

</acƟvity>

<acƟvity android:name=".MainAcƟvity2" android:exported="true" />

</applicaƟon>

</manifest>

# Without Intent

## acƟvity\_main.xml

<?xml version="1.0" encoding="uƞ-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="hƩp://schemas.android.com/apk/res/a ndroid"

xmlns:app="hƩp://schemas.android.com/apk/res- auto"

xmlns:tools="hƩp://schemas.android.com/tools" android:id="@+id/main" android:layout\_width="match\_parent" android:layout\_height="match\_parent" tools:context=".MainAcƟvity">

<EditText android:id="@+id/editTextText"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:ems="10" android:hint="Name"

android:inputType="text" app:layout\_constraintBoƩom\_toBoƩomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.557" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVerƟcal\_bias="0.069" />

<EditText android:id="@+id/editTextText2" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:ems="10" android:hint="Contact" android:inputType="phone"

app:layout\_constraintBoƩom\_toBoƩomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.557" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVerƟcal\_bias="0.182" />

<EditText android:id="@+id/editTextText3" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:ems="10"

android:hint="City" android:inputType="text"

app:layout\_constraintBoƩom\_toBoƩomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.557" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVerƟcal\_bias="0.327" />

<TextView

android:id = "@+id/textView" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text=""

app:layout\_constraintBoƩom\_toBoƩomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.498" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVerƟcal\_bias="0.706" />

<BuƩon android:id="@+id/buƩon"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Submit" app:layout\_constraintBoƩom\_toBoƩomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVerƟcal\_bias="0.462" />

</androidx.constraintlayout.widget.ConstraintLayout>

## MainAcƟvity.java

package com.example.week3without;

import android.os.Bundle; import android.view.View; import android.widget.BuƩon; import android.widget.EditText; import android.widget.TextView;

import androidx.appcompat.app.AppCompatAcƟvity;

public class MainAcƟvity extends AppCompatAcƟvity {

TextView t; EditText e1, e2, e3; BuƩon b;

String name, city, phone;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.*acƟvity\_main*);

e1 = ﬁndViewById(R.id.*editTextText*); e2 = ﬁndViewById(R.id.*editTextText2*); e3 = ﬁndViewById(R.id.*editTextText3*); b = ﬁndViewById(R.id.*buƩon*);

t = ﬁndViewById(R.id.*textView*); b.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) { name = e1.getText().toString(); city = e2.getText().toString(); phone = e3.getText().toString();

String displayText = "Name: " + name + "\nCity: " + city + "\nPhone: " + phone;

t.setText(displayText);

}

});

}

}