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Subject: Mobile App Development

## manifest.xml>

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.midterm">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.MidTerm">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity
            android:name=".ExplicitActivity"
            android:exported="true">
        </activity>
    </application>

</manifest>
```

## MainActivity.java>

```
package com.example.midterm;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
```

```

public class MainActivity extends AppCompatActivity {
    Button explicit, implicit;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        explicit = (Button)findViewById(R.id.explicit);
        implicit = (Button)findViewById(R.id.implicit);

        explicit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent i = new Intent(getApplicationContext(), ExplicitActivity.class);
                startActivity(i);
            }
        });

        implicit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent i = new Intent(Intent.ACTION_DIAL);
                i.setData(Uri.parse("tel:"+ "7088292032"));
                startActivity(i);
            }
        });
    }
}

```

## ExplicitActivity>

```

package com.example.midterm;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class ImplicitActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_explicit);
    }
}

```

## MainActivity.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">
```

### <TextView

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Sandeep Rawat"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

### <Button

```
    android:id="@+id/implicit"
    android:layout_width="222dp"
    android:layout_height="60dp"
    android:layout_marginBottom="160dp"
    android:text="Implicit"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.551"
    app:layout_constraintStart_toStartOf="parent" />
```

### <Button

```
    android:id="@+id/explicit"
    android:layout_width="222dp"
    android:layout_height="60dp"
    android:layout_marginTop="484dp"
    android:text="Explicit"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.551"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

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

## ExplicitActivity.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=".ExplicitActivity">
```

<TextView

```
    android:id="@+id/textView"
    android:layout_width="367dp"
    android:layout_height="415dp"
    android:text="This is triggered via explicit intent"
    android:textSize="50px"
    android:textAlignment="center"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

## Mid Term

Hello World!

IMPLICIT

EXPLICIT

## Mid Term

This is triggered via explicit intent



Create new contact



Add to a contact



Send SMS



(976) 017-8031



1

QW

2

ABC

3

DEF

4

GHI

5

JKL

6

MNO

7

PQRS

8

TUV

9

WXYZ

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