# PRESIDENCY UNIVERSITY

## Mobile application development(CSE 3075)

20211CSE0223

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5CSE4

## EXPERIMENT 8: CHECKBOX

1.Design (activity_main.xml)

```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"
    android:background="@color/abc"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView4"
        android:layout_width="101dp"
        android:layout_height="29dp"
        android:layout_marginBottom="17dp"
        android:text="BURGER"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/checkBox2"
        app:layout_constraintEnd_toEndOf="@+id/checkBox"
        app:layout_constraintStart_toStartOf="@+id/checkBox"
        app:layout_constraintTop_toBottomOf="@+id/checkBox"
        tools:ignore="MissingConstraints" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="279dp"
        android:layout_height="36dp"
        android:layout_marginStart="49dp"
        android:layout_marginTop="16dp"
        android:layout_marginBottom="21dp"
        android:text="The Good Food Cafetaria"
        android:textColor="#050777"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/editTextText"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
```

```xml
            tools:ignore="MissingConstraints" />

    <EditText
        android:id="@+id/editTextText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="8dp"
        android:ems="10"
        android:hint="Customer ID: "
        android:inputType="text"
        android:minHeight="48dp"
        android:textColor="#450303"
        android:textColorHint="#79DC16"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/checkBox"
        app:layout_constraintEnd_toEndOf="@+id/textView"
        app:layout_constraintStart_toStartOf="@+id/textView"
        app:layout_constraintTop_toBottomOf="@+id/textView"
        tools:ignore="MissingConstraints" />

    <CheckBox
        android:id="@+id/checkBox"
        android:layout_width="111dp"
        android:layout_height="66dp"
        android:layout_marginBottom="16dp"
        android:background="@drawable/img"
        app:layout_constraintBottom_toTopOf="@+id/textView4"
        app:layout_constraintEnd_toEndOf="@+id/editTextText"
        app:layout_constraintStart_toStartOf="@+id/editTextText"
        app:layout_constraintTop_toBottomOf="@+id/editTextText"
        tools:ignore="MissingConstraints" />

    <CheckBox
        android:id="@+id/checkBox2"
        android:layout_width="118dp"
        android:layout_height="68dp"
        android:layout_marginBottom="8dp"
        android:background="@drawable/img_1"
        app:layout_constraintBottom_toTopOf="@+id/textView5"
        app:layout_constraintEnd_toEndOf="@+id/textView4"
        app:layout_constraintStart_toStartOf="@+id/textView4"
        app:layout_constraintTop_toBottomOf="@+id/textView4"
        tools:ignore="MissingConstraints" />

    <CheckBox
        android:id="@+id/checkBox3"
        android:layout_width="56dp"
        android:layout_height="91dp"
        android:layout_marginBottom="17dp"
        android:background="@drawable/img_3"
        app:layout_constraintBottom_toTopOf="@+id/textView6"
        app:layout_constraintEnd_toEndOf="@+id/textView5"
        app:layout_constraintHorizontal_bias="0.512"
        app:layout_constraintStart_toStartOf="@+id/textView5"
        app:layout_constraintTop_toBottomOf="@+id/textView5"
        tools:ignore="MissingConstraints" />

    <TextView
        android:id="@+id/textView5"
        android:layout_width="90dp"
```

```xml
        android:layout_height="29dp"
        android:layout_marginBottom="30dp"
        android:text="PIZZA"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/checkBox3"
        app:layout_constraintEnd_toEndOf="@+id/checkBox2"
        app:layout_constraintHorizontal_bias="0.444"
        app:layout_constraintStart_toStartOf="@+id/checkBox2"
        app:layout_constraintTop_toBottomOf="@+id/checkBox2"
        tools:ignore="MissingConstraints" />

    <TextView
        android:id="@+id/textView6"
        android:layout_width="84dp"
        android:layout_height="27dp"
        android:layout_marginBottom="40dp"
        android:text="COKE"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/button"
        app:layout_constraintEnd_toEndOf="@+id/checkBox3"
        app:layout_constraintStart_toStartOf="@+id/checkBox3"
        app:layout_constraintTop_toBottomOf="@+id/checkBox3"
        tools:ignore="MissingConstraints" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="75dp"
        android:backgroundTint="@color/black"
        android:text="ORDER"
        android:textColor="#F9A825"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="@+id/textView6"
        app:layout_constraintStart_toStartOf="@+id/textView6"
        app:layout_constraintTop_toBottomOf="@+id/textView6"
        tools:ignore="MissingConstraints" />

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

2.JAVA File (MainActivity.java)

```java
package com.example.ex8_0223;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
EditText editTextText;
CheckBox checkBox;
CheckBox checkBox2;
CheckBox checkBox3;
Button button;
int total=0;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        editTextText=findViewById(R.id.editTextText);
        checkBox=findViewById(R.id.checkBox);
        checkBox2=findViewById(R.id.checkBox2);
        checkBox3=findViewById(R.id.checkBox3);
        button=findViewById(R.id.button);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
             StringBuilder result=new StringBuilder();
             result.append("\nCustomer ID:
"+editTextText.getText().toString()+"\nOrder details are:\n ");
             if(checkBox.isChecked()) {
                 result.append("\nBURGER-Rs.300");
                 total+=300;
             }
             if(checkBox2.isChecked()) {
                 result.append("\nPIZZA-Rs.500");
                 total+=500;

             }
             if(checkBox3.isChecked()) {
                 result.append("\nCOKE-Rs.100");
                 total+=100;
             }
             String res=result.toString();
                 Toast.makeText(MainActivity.this,res+"\nTotal amount:Rs.
"+total,Toast.LENGTH_LONG).show();
                 Intent intent=new Intent(MainActivity.this,
MainActivity2.class);
                 intent.putExtra("Order",res);
                 intent.putExtra("Total",total);
```

```
                startActivity(intent);
            }
        });
    }
}
```

## 3.Design (activity_main2.xml)

```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=".MainActivity2"
    android:background="@drawable/img_5">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="410dp"
        android:layout_height="385dp"
        android:fontFamily="monospace"
        android:foregroundGravity="center"
        android:gravity="center"
        android:text="Order details"
        android:textColor="#DA6868"
        android:textStyle="bold"
        tools:layout_editor_absoluteX="-2dp"
        tools:layout_editor_absoluteY="138dp" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

## 4.JAVA File (MainActivity2.java)

```java
package com.example.ex8_0223;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity2 extends AppCompatActivity {
TextView textView2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        textView2=findViewById(R.id.textView2);
        Intent intent=getIntent();
        String id=intent.getStringExtra("Order");
        int tot= intent.getIntExtra("Total",0);
        textView2.setText("Customer order details:: "+id+"\nTotal
amount::Rs."+tot+"\nORDER AGAIN!");
```

```
        }
}
```

## AndroidManifest.xml

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

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        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.Ex8_0223"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity2"
            android:exported="false" />
        <activity
            android:name=".MainActivity"
            android:exported="true"
        android:icon="@mipmap/img">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER"
/>
            </intent-filter>
        </activity>
    </application>

</manifest>
```

## 5.Output in the emulator

## Screen 1: The Good Food Cafetaria

**The Good Food Cafetaria**

256121



BURGER



PIZZA



COKE

ORDER

## Screen 2: Order Details

Customer order details::
Customer ID: 256121
Order details are:

PIZZA-Rs.500
COKE-Rs.100
Total amount::Rs.600
ORDER AGAIN!

Customer ID: 256121
Order details are:

PIZZA-Rs.500
COKE-Rs.100
Total amount:Rs. 600