CSE- 4002 LAB-8 Assignment

Academic year: 2020-2021   **Semester:** WIN

Faculty Name: Dr. Prabha Selvaraj Mam   **Date:** 9 /11//2021

Student name: Taran Mamidala   **Reg. no.:** 19BCE7346

Working on chip buttons

Design an app that creates dynamic adding and removing of chip buttons.
CODE:

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"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/b1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="75dp"
        android:layout_marginBottom="137dp"
        android:backgroundTint="#25F635"
        android:text="create"
        android:textColor="#4E342E"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:rippleColor="#3AA843" />

    <Button
        android:id="@+id/b2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginEnd="59dp"
        android:backgroundTint="#FA3F2E"
        android:text="delete"
        app:layout_constraintBottom_toBottomOf="@+id/b1"
        app:layout_constraintEnd_toEndOf="parent"
```

```xml
        app:layout_constraintTop_toTopOf="@+id/b1" />

    <com.google.android.material.chip.ChipGroup
        android:id="@+id/chipgroup"
        android:layout_width="307dp"
        android:layout_height="308dp"
        android:layout_marginStart="44dp"
        android:layout_marginTop="130dp"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent">

    </com.google.android.material.chip.ChipGroup>

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="166dp"
        android:layout_marginTop="44dp"
        android:layout_marginEnd="187dp"
        android:text="19BCE7346"
        android:textColor="#FF6F00"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

_____

```java
    package com.example.chips;

    import androidx.appcompat.app.AppCompatActivity;

    import android.os.Bundle;
    import android.view.View;
    import android.widget.Button;

    import com.google.android.material.chip.Chip;
    import com.google.android.material.chip.ChipGroup;

    public class MainActivity extends AppCompatActivity {
        Button b1,b2;
        ChipGroup c;

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

            b1 = findViewById(R.id.b1);
            b2 = findViewById(R.id.b2);
            c = findViewById(R.id.chipgroup);
```
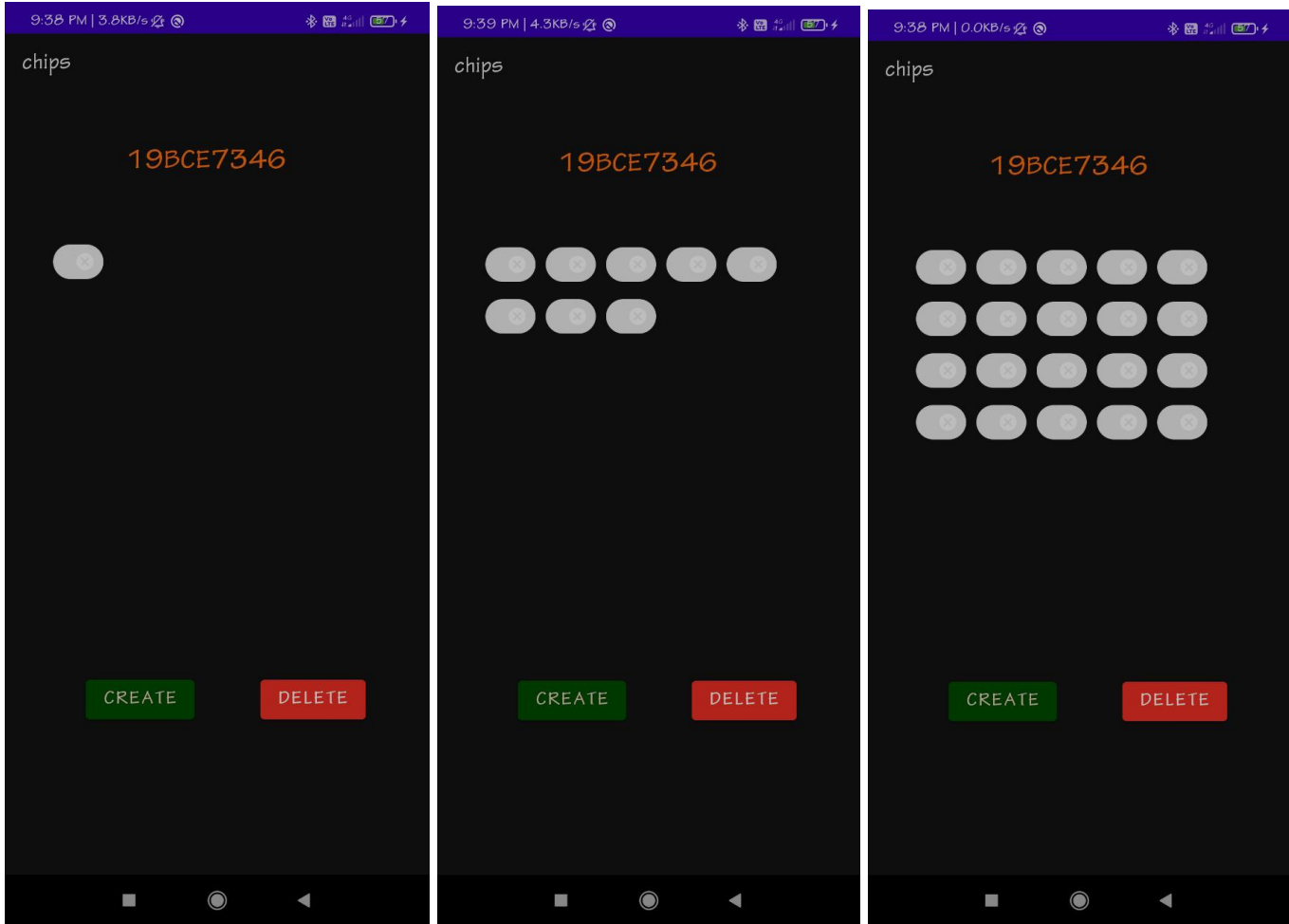
```
b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Chip chip = new Chip(MainActivity.this);
        chip.setCloseIconVisible(true);
        c.addView(chip);
        chip.setOnCloseIconClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                c.removeView(chip);
            }
        });
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                c.removeView(chip);
            }
        });
    }
});
    }
}
```

Output:

Design an App for the Gmail header. Whenever the user enters an email in the "To" section create a chip button with a photo and the email. It should also contain a close button to remove the chip button.

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"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/from"
        android:layout_width="235dp"
```

```xml
        android:layout_height="46dp"
        android:layout_marginTop="68dp"
        android:ems="10"
        android:hint="From"
        android:inputType="textEmailAddress"
        android:textSize="16sp"
        app:layout_constraintEnd_toEndOf="@+id/to"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="@+id/to"
        app:layout_constraintTop_toTopOf="parent"
        tools:ignore="TouchTargetSizeCheck" />

    <EditText
        android:id="@+id/to"
        android:layout_width="186dp"
        android:layout_height="46dp"
        android:layout_marginTop="224dp"
        android:layout_marginEnd="16dp"
        android:ems="10"
        android:hint="To"
        android:inputType="textEmailAddress"
        android:textSize="16sp"
        app:layout_constraintEnd_toStartOf="@+id/b"
        app:layout_constraintTop_toTopOf="parent"
        tools:ignore="TouchTargetSizeCheck" />

    <EditText
        android:id="@+id/subject"
        android:layout_width="239dp"
        android:layout_height="47dp"
        android:layout_marginStart="4dp"
        android:layout_marginTop="104dp"
        android:ems="10"
        android:hint="subject"
        android:inputType="textPersonName"
        android:textSize="16sp"
        app:layout_constraintStart_toStartOf="@+id/to"
        app:layout_constraintTop_toBottomOf="@+id/to"
        tools:ignore="TouchTargetSizeCheck" />

    <Button
        android:id="@+id/b"
        android:layout_width="90dp"
        android:layout_height="57dp"
        android:layout_marginEnd="44dp"
        android:backgroundTint="#FF6F00"
        android:text="Click"
        android:textColor="#0B0A0A"
        app:layout_constraintBaseline_toBaselineOf="@+id/to"
        app:layout_constraintEnd_toEndOf="parent" />

    <com.google.android.material.chip.ChipGroup
        android:id="@+id/chipgr"
        android:layout_width="180dp"
        android:layout_height="61dp"
        android:layout_marginStart="32dp"
        android:layout_marginTop="50dp"
```

```xml
        android:layout_marginBottom="48dp"
        android:background="@color/white"
        app:chipSpacingHorizontal="10dp"
        app:layout_constraintBottom_toBottomOf="@+id/b"
        app:layout_constraintEnd_toEndOf="@+id/to"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="@+id/to"
        app:layout_constraintTop_toBottomOf="@+id/from"
        app:layout_constraintVertical_bias="0.0">

    </com.google.android.material.chip.ChipGroup>

    <EditText
        android:id="@+id/msg"
        android:layout_width="273dp"
        android:layout_height="139dp"
        android:layout_marginStart="102dp"
        android:layout_marginEnd="100dp"
        android:layout_marginBottom="140dp"
        android:ems="10"
        android:gravity="start|top"
        android:hint="Message"
        android:inputType="textMultiLine"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```java
    package com.example.chips2;

    import androidx.annotation.DrawableRes;
    import androidx.appcompat.app.AppCompatActivity;

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

    import com.google.android.material.chip.Chip;
    import com.google.android.material.chip.ChipGroup;

    public class MainActivity extends AppCompatActivity {
        Button b1;
        EditText e1,e2,e3,e4;
        private ChipGroup c;

        @Override
        protected void onCreate(Bundle savedInstanceState) {
            super.onCreate(savedInstanceState);
            setContentView(R.layout.activity_main);
            b1 = findViewById(R.id.b);
```

```java
        e1 = findViewById(R.id.from);
        e2 = findViewById(R.id.to);
        e3 = findViewById(R.id.msg);
        e4 = findViewById(R.id.subject);
        c = findViewById(R.id.chipgr);

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Chip chip = new Chip(MainActivity.this);
                c.addView(chip);
                chip.setText(e2.getText());

chip.setChipIcon(getDrawable(android.R.drawable.ic_menu_gallery));
                e2.setText(null);
                chip.setCloseIconVisible(true);

                chip.setOnCloseIconClickListener(new View.OnClickListener() {
                    @Override
                    public void onClick(View v) {
                        c.removeView(chip);
                    }
                });

            }
        });
    }
}
```
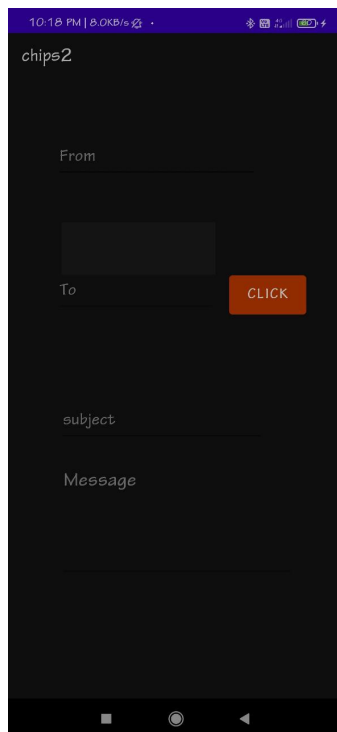
Output:

chips2

taran@gmail.com

🖼 19bce7346@ ✕

taran@hotmail.com   CLICK

LAB8

created a chip button with
photo and the email..