Mobile Application Development LAB

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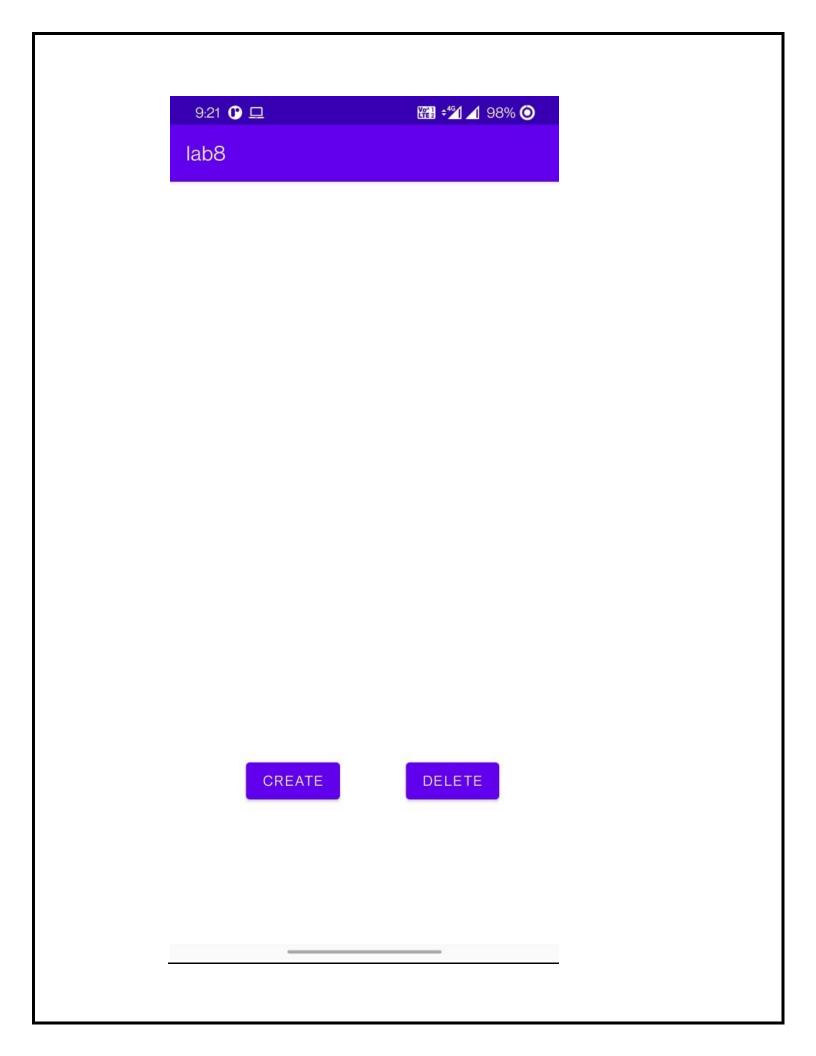
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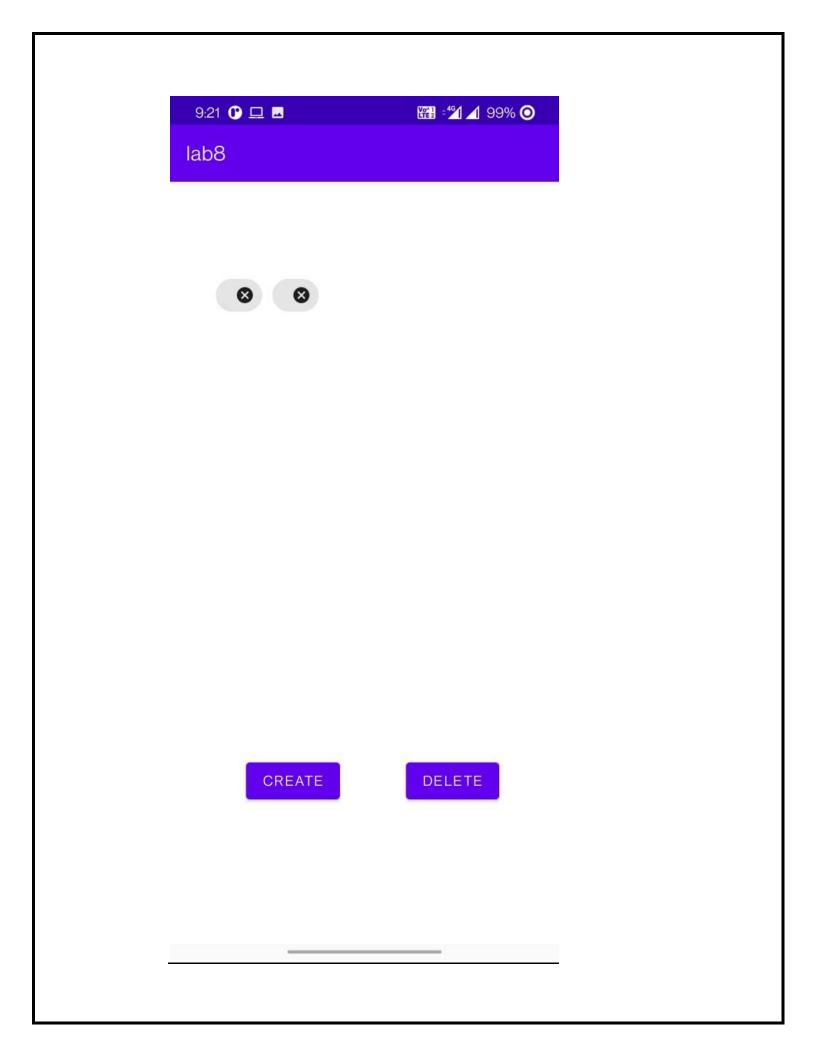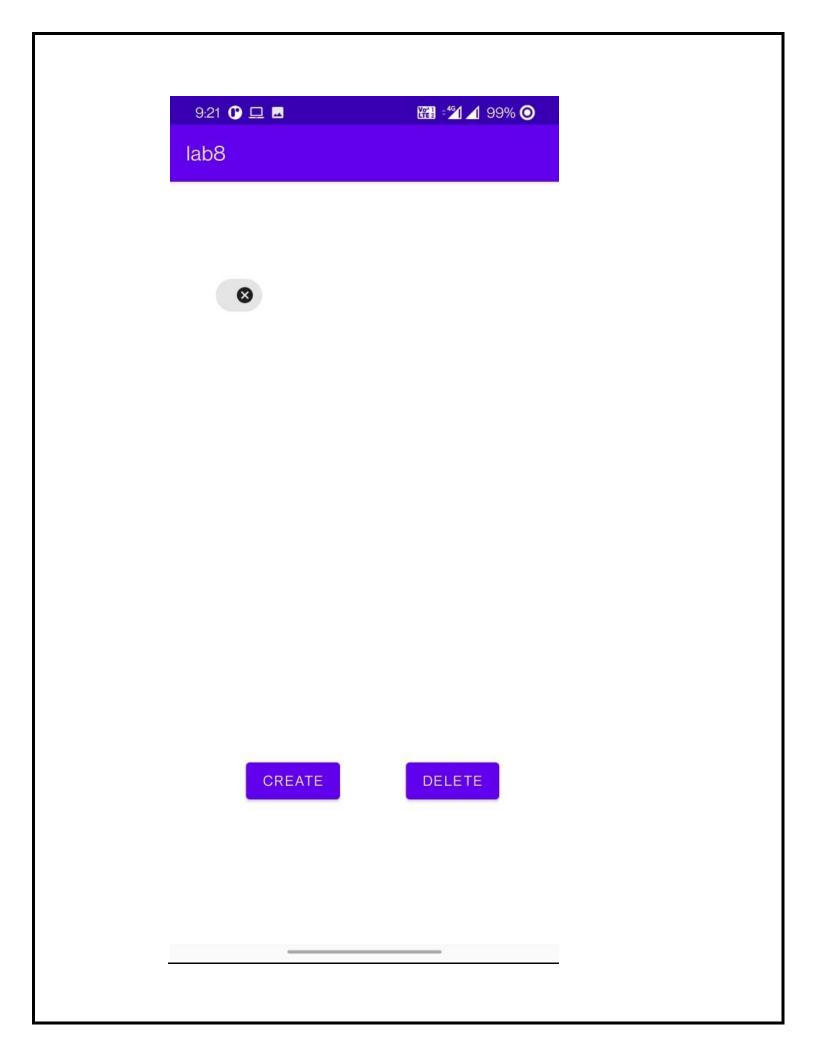1. Design an app that creates dynamic adding and removing of chip buttons.

Java:

```java
package com.example.lab8;

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 MainActivityextends AppCompatActivity {
    Button b1,b2;
    ChipGroupc;

    @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.chipgr);
        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);
                    }
```

```
                    });
                }
            });
        }
    }
```

xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayoutxmlns:android="http://schem
as.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:text="create"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintStart_toStartOf="parent" />

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

<com.google.android.material.chip.ChipGroup
android:id="@+id/chipgr"
android:layout_width="332dp"
android:layout_height="415dp"
android:layout_marginStart="44dp"
android:layout_marginTop="88dp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent">

</com.google.android.material.chip.ChipGroup>
    </androidx.constraintlayout.widget.ConstraintLayout>
```

Output:

lab8

CREATE   DELETE

lab8

CREATE   DELETE

CREATE

DELETE

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

Java:

```java
package com.example.lab21;

import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.Spinner;

import androidx.appcompat.app.AppCompatActivity;


public class MainActivity extends AppCompatActivity {
    Spinner s;

    String mailList[] = {"heyfromrachel@gamil.com","heyfromsmith@gmail.com"};
    //ListView simpleListView;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        s=findViewById(R.id.spinner);
        ArrayAdapter<CharSequence> ad = new
ArrayAdapter(getApplicationContext(),
android.R.layout.simple_spinner_item,mailList);
        ad.setDropDownViewResource(
                android.R.layout
                        .simple_spinner_dropdown_item);
        s.setAdapter(ad);

    }
}
```

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">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="24dp"
        android:layout_marginEnd="25dp"
```

```xml
        android:layout_marginBottom="40dp"
        android:text="To"
        app:layout_constraintBottom_toTopOf="@+id/editTextTextPersonName"
        app:layout_constraintEnd_toStartOf="@+id/chipGroup"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/spinner" />

    <com.google.android.material.chip.ChipGroup
        android:id="@+id/chipGroup"
        android:layout_width="0dp"
        android:layout_height="37dp"
        android:layout_marginTop="72dp"
        android:layout_marginEnd="27dp"
        android:layout_marginBottom="77dp"
        app:layout_constraintBottom_toBottomOf="@+id/editTextTextPersonName"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/textView"
        app:layout_constraintTop_toTopOf="@+id/spinner"
        app:layout_constraintVertical_bias="0.258">

        <com.google.android.material.chip.Chip
            android:id="@+id/chip4"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Smith" />

        <com.google.android.material.chip.Chip
            android:id="@+id/chip5"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Jayanth" />

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

    <EditText
        android:id="@+id/editTextTextPersonName"
        android:layout_width="361dp"
        android:layout_height="69dp"
        android:layout_marginStart="9dp"
        android:layout_marginEnd="9dp"
        android:layout_marginBottom="16dp"
        android:ems="10"
        android:hint="Subject"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toTopOf="@+id/editTextTextPersonName2"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView" />

    <EditText
        android:id="@+id/editTextTextPersonName2"
        android:layout_width="366dp"
        android:layout_height="220dp"
        android:layout_marginStart="3dp"
        android:layout_marginEnd="3dp"
        android:layout_marginBottom="251dp"
        android:ems="10"
```

```xml
        android:hint="Message"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName" />

    <Spinner
        android:id="@+id/spinner"
        android:layout_width="375dp"
        android:layout_height="50dp"
        android:layout_marginStart="9dp"
        android:layout_marginTop="25dp"
        android:layout_marginEnd="9dp"
        android:layout_marginBottom="38dp"
        app:layout_constraintBottom_toTopOf="@+id/textView"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```
Output:

lab8

heyfromrachel@gamil.com ▼

To   Smith   Gopi

Subject

Message

lab8

heyfromrachel@gamil.com ▾

To   Smith   Gopi

gopi
_____

mad

_____