MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
(A constituent unit of MAHE, Manipal)

Department of Computer Science and Engineering

Android Development Mini Project

on

E-Mail Book

Submitted by:

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Description

The mini-project is an implementation of E-mail book which is analogous to a Phone book in which we can search email of a person using his/her name. The layout of the project has been made using the constraint layout in android studios. The project uses Java as the programming language and makes use of SQLite for querying to the database. When the Submit button is hit, the program inputs the value from the EditText field and runs a query to display all entries whose name matches the input string. The query output is then displayed into a List View on a different Activity. The List View consists of a serial number field, a name field and an E-mail field inside of it.

Layout Design

activity_main.xml (layout):

```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/Title"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="36dp"
        android:autoText="false"
        android:fontFamily="monospace"
        android:text="Email-Book"
        android:textAllCaps="false"
        android:textSize="34sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/textView"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="24dp"
        android:fontFamily="@font/cardo"
        android:text="Please enter a name to search for it in the database:"
        android:textAlignment="center"
        android:textSize="20sp"
        app:layout_constraintBottom_toTopOf="@+id/editTextTextPersonName"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent" />

    <EditText
        android:id="@+id/editTextTextPersonName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="208dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="Enter the Name"
        android:textColor="#B1B1B1"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.482"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/button"
```

```xml
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="36dp"
            android:text="Submit"
            app:iconTint="#FFFFFF"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.5"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName" />

    <TableLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:stretchColumns="1,2"
        app:layout_constraintTop_toBottomOf="@+id/button"
        android:layout_marginTop="36dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent">

        <TableRow
            android:id="@+id/tableRow1"
            android:layout_width="match_parent"
            android:layout_height="wrap_content">

            <TextView
                android:id="@+id/SrNo"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:background="@drawable/cell_heading_shape"
                android:padding="5dp"
                android:text="Sr No."
                android:textAppearance="?android:attr/textAppearanceMedium"
                android:textColor="#FFFFFF"></TextView>

            <TextView
                android:id="@+id/Name"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:background="@drawable/cell_heading_shape"
                android:padding="5dp"
                android:text="Name"
                android:textAppearance="?android:attr/textAppearanceMedium"
                android:textColor="#FFFFFF"></TextView>

            <TextView
                android:id="@+id/Email"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:background="@drawable/cell_heading_shape"
                android:padding="5dp"
                android:text="Email"
                android:textAppearance="?android:attr/textAppearanceMedium"
                android:textColor="#FFFFFF"></TextView>

        </TableRow>

        <TableRow
            android:id="@+id/tableRow2"
            android:layout_width="match_parent"
            android:layout_height="wrap_content">
            <TextView
                android:id="@+id/textView1"
```

```xml
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:background="@drawable/cell_shape"
                android:padding="5dp"

android:textAppearance="?android:attr/textAppearanceMedium"></TextView>

            <TextView
                android:id="@+id/textView2"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:background="@drawable/cell_shape"
                android:padding="5dp"

android:textAppearance="?android:attr/textAppearanceMedium"></TextView>

            <TextView
                android:id="@+id/textView3"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:background="@drawable/cell_shape"
                android:padding="5dp"

android:textAppearance="?android:attr/textAppearanceMedium"></TextView>
        </TableRow>
    </TableLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

details.xml (XML for the second activity):

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical"
    >
    <ListView
        android:id="@+id/user_list"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:dividerHeight="1dp" />
    <Button
        android:id="@+id/btnBack"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginTop="36dp"
        android:text="Back" />
</LinearLayout>
```

list_row.xml (XML for relative layout inside List View):

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:padding="5dip" >
    <TextView
        android:id="@+id/id"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textStyle="bold"
        android:textSize="17sp" />
    <TextView
        android:id="@+id/name"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/id"
        android:layout_marginTop="7dp"
        android:textSize="14sp" />
    <TextView
        android:id="@+id/email"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBaseline="@+id/name"
        android:layout_alignBottom="@+id/name"
        android:layout_alignParentEnd="true"
        android:textSize="14sp" />
</RelativeLayout>
```

cell_shape.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<shape
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:shape= "rectangle"  >
    <solid android:color="#FFFFFF"/>
    <stroke android:width="1dp"  android:color="#424242"/>
</shape>
```

cell_heading_shape.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<shape
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:shape= "rectangle"  >
    <solid android:color="#FF6200EE"/>
    <stroke android:width="1dp"  android:color="#424242"/>
</shape>
```

Screen Shots

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Name Query Results

2

Kartik   kartik.diwan@learner.manipal.edu

4

Kartik   diwan.kartik88@gmail.com

BACK

Success

19:27

Name Query Results

3

Anish

Anish.m@gmail.com

BACK

Success