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Ex.No: 12 Date:

MINI PROJECTMOBILE APPLICATION THAT CREATES BLOOD BANK

OBJECTIVE:

To develop an Android Application that creates Blood Bank

PROCEDURE

Step 1: Create an android project using android studio.

Step 2: Design

Open the actual Project folder (app) in Android Studio IDE.

Click res directory -> layout -> activity_main.xml -> Design.

Insert the GUI components to Design view in activity main.xml.

Enter the id for each component.

Step 3: Open AndroidManifest.xml and add the code to provide access permission.

Step 4: Open res/values/styles.xml and add the code.

Step 5: Open Java -> MainActivity.java and add the code.

Step 6: Run the project and the output will be displayed in Emulator.

PROGRAM:

Activity main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"
android:padding="16dp">
<TextView
  android:id="@+id/titleText"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="Blood Bank"
  android:textSize="24sp"
  android:layout_gravity="center"
  android:layout marginBottom="20dp"/>
<TextView
  android:id="@+id/bloodInfo"
  android:layout width="match parent"
  android:layout height="wrap content"
  android:text="Available Blood Types:\nA+, B+, O+, AB+"
  android:textSize="18sp"
  android:layout_marginBottom="20dp"/>
```

```
<Button
    android:id="@+id/donateButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Donate Blood"
    android:layout gravity="center"
    android:layout marginBottom="16dp"/>
  <Button
    android:id="@+id/requestButton"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text="Request Blood"
    android:layout_gravity="center"
    android:layout_marginBottom="16dp"/>
</LinearLayout>
Main Activity.java:
import package com.example.bloodbankapp;
androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
private Button donateButton, requestButton;
  private TextView bloodInfo;
 private String availableBloodTypes = "A+, B+, O+, AB+";
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    donateButton = findViewById(R.id.donateButton);
    requestButton = findViewById(R.id.requestButton);
    bloodInfo = findViewById(R.id.bloodInfo);
    donateButton.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {
     donateBlood();
    });
    requestButton.setOnClickListener(new View.OnClickListener() {
       public void onClick(View v) {
      requestBlood();
    });
    private void donateBlood() {
          }
```

```
});
    requestButton.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {
         requestBlood();
    });
});
  private void donateBlood() {
          }
    });
    requestButton.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {
         requestBlood();
    });
  }
     private void donateBlood() {
    if (bloodTypes.length > 0) {
       availableBloodTypes = availableBloodTypes.replace(bloodTypes[0], "").trim();
      bloodInfo.setText("Available Blood Types:\n" + availableBloodTypes);
      Toast.makeText(MainActivity.this, "Thank you for donating blood!",
Toast.LENGTH_SHORT).show();
    } else {
      Toast.makeText(MainActivity.this, "No blood types available to donate.",
Toast.LENGTH_SHORT).show();
  }
  private void requestBlood() {
if (!availableBloodTypes.isEmpty()) {
       Toast.makeText(MainActivity.this, "Blood requested successfully!", Toast.LENGTH SHORT).show();
     } else {
      Toast.makeText(MainActivity.this, "No blood available for request.",
Toast.LENGTH_SHORT).show();
}
```

OUTPUT:



CONCLUSION:	}			
Thus a and	roid application were	created and tested s	uccessfully.	