**OBJECTIVES:**

* Description
* Platform Used
* Java and XML code
* Output
* Conclusion

**DESCRIPTION:**

Medco Track is a health management app that helps users track and understand their current health condition. The app allows users to log their medical test results and symptoms in an organized way. It provides a centralized view of health data, making it easier to monitor changes over time. Users can analyze their test history to identify patterns and trends.  
The app acts like a personal medical diary for better self-awareness and communication with doctors. Medco Tracker sends reminders for upcoming tests, checkups, or health-related tasks. It also allows storing important health notes, like doctor’s advice or medication details.  
Users can mark whether their results are normal or need attention, enhancing clarity.  
The interface is designed to be user-friendly for all age groups. The app promotes proactive health monitoring rather than reactive care.  
 Medco Tracker keeps all health records safely in one place, accessible anytime.  
It offers simple visual summaries of health status for easy interpretation.  
With timely alerts and organized data, users can stay in control of their well-being.  
Overall, Medco Tracker is your companion for managing and understanding your health better.

**PLATFORM USED:**

Platform: Android Studio

Device: 1. OPPO CPH269 Mobile (Physical device)

2.

Version: API 19(“KitKat”; Android 4.4).

**JAVA AND XML CODE:**

**MAIN ACTIVITY**

**JAVA CODE**

package com.example.medcotrack;  
import android.content.Intent;  
import android.content.SharedPreferences;  
import android.os.Bundle;  
import android.os.Handler;  
import android.widget.ImageView;  
import android.widget.TextView;  
import androidx.appcompat.app.AppCompatActivity;  
public class MainActivity extends AppCompatActivity {  
 TextView tv1, tv2;  
 ImageView im1;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 tv1 = findViewById(R.id.*textView2*);  
 tv2 = findViewById(R.id.*textView3*);  
 im1 = findViewById(R.id.*imageView2*);  
 new Handler().postDelayed(() -> {  
 SharedPreferences prefs = getSharedPreferences("UserPrefs", *MODE\_PRIVATE*);  
boolean isLoggedIn = prefs.getBoolean("isLoggedIn", false);  
 if (isLoggedIn) {  
 startActivity(new Intent(MainActivity.this, MainActivity4.class)); // Go to dashboard  
 } else {  
 startActivity(new Intent(MainActivity.this, MainActivity2.class)); // Go to login

}

finish();  
 }, 3000); // 3-second splash (adjust as needed)  
}

}

**XML CODE**

<?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:id="@+id/main"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <ImageView  
 android:id="@+id/imageView2"  
 android:layout\_width="249dp"  
 android:layout\_height="196dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.496"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.42"  
 app:srcCompat="@drawable/medcotackk" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="214dp"  
 android:layout\_height="36dp"  
 android:text="MedcoTrack"  
 android:textAlignment="center"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.624" />  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="377dp"  
 android:layout\_height="33dp"  
 android:text="Stay Healthy, Stay Remainded"  
 android:textAlignment="center"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.496"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.684" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**MAIN ACTIVITY 2**

**JAVA CODE**

**package com.example.medcotrack;  
import android.content.Intent;  
import android.content.SharedPreferences;  
import android.os.Bundle;  
import android.text.TextUtils;  
import android.widget.Button;  
import android.widget.EditText;**

**import android.widget.Toast;  
import androidx.annotation.Nullable;**

**import androidx.appcompat.app.AppCompatActivity;  
import com.google.android.gms.auth.api.signin.GoogleSignIn;  
import com.google.android.gms.auth.api.signin.GoogleSignInAccount;  
import com.google.android.gms.auth.api.signin.GoogleSignInClient;  
import com.google.android.gms.auth.api.signin.GoogleSignInOptions;  
import com.google.android.gms.common.SignInButton;**

**import com.google.android.gms.common.api.ApiException;  
import com.google.android.gms.tasks.Task;  
public class MainActivity2 extends AppCompatActivity {  
EditText etUsername, etPassword;  
 Button btnLogin;**

**SignInButton btnGoogleSignIn;  
 GoogleSignInClient mGoogleSignInClient;  
 public static final String *PREFS\_NAME* = "MyPrefs";  
 public static final String *KEY\_LOGGED\_IN* = "isLoggedIn";**

**public static final String *KEY\_NAME* = "name";**

**public static final String *KEY\_AGE* = "age";  
 public static final String *KEY\_GENDER* = "gender";  
 private static final int *RC\_SIGN\_IN* = 101;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);**

**// ✅ Already logged in user → Go to MainActivity4  
 SharedPreferences prefs = getSharedPreferences(*PREFS\_NAME*,**

***MODE\_PRIVATE*);  
 if (prefs.getBoolean(*KEY\_LOGGED\_IN*, false)) { startActivity(new Intent(MainActivity2.this, MainActivity4.class));  
 finish();  
 return;  
 }  
 setContentView(R.layout.*activity\_main2*);  
etUsername = findViewById(R.id.*etUsername*);**

**etPassword = findViewById(R.id.*etPassword*);  
 btnLogin = findViewById(R.id.*btnLogin*);**

**btnGoogleSignIn = findViewById(R.id.*btnGoogleSignIn*);  
 // ✅ Email/Password Login  
 btnLogin.setOnClickListener(v -> {  
 String user = etUsername.getText().toString().trim();  
 String pass = etPassword.getText().toString().trim();  
 if (TextUtils.*isEmpty*(user) || TextUtils.*isEmpty*(pass)) {  
 Toast.*makeText*(MainActivity2.this, "Please enter username and password", Toast.*LENGTH\_SHORT*).show();  
 } else {  
 // Save login + dummy name/age/gender**

**SharedPreferences.Editor editor = getSharedPreferences(*PREFS\_NAME*, *MODE\_PRIVATE*).edit(); editor.putBoolean(*KEY\_LOGGED\_IN*, true);  
 editor.putString(*KEY\_NAME*, user); // dummy name  
 editor.putString(*KEY\_AGE*, "21"); // dummy age  
 editor.putString(*KEY\_GENDER*, "Female"); // dummy gender  
 editor.apply();  
 Toast.*makeText*(MainActivity2.this, "Login successful", Toast.*LENGTH\_SHORT*).show();  
 startActivity(new Intent(MainActivity2.this,**

**MainActivity3.class)); // ⬅️ First time profile details**

**finish();  
 }  
 });  
 // ✅ Google Sign-In Setup  
 GoogleSignInOptions gso = new**

**GoogleSignInOptions.Builder(GoogleSignInOptions.*DEFAULT\_SIGN\_IN*)  
 .requestEmail()  
 .build();**

**mGoogleSignInClient = GoogleSignIn.*getClient*(this, gso);  
 btnGoogleSignIn.setOnClickListener(v -> {  
 Intent signInIntent = mGoogleSignInClient.getSignInIntent();  
 startActivityForResult(signInIntent, *RC\_SIGN\_IN*);  
});**

**}  
 @Overrid**

**protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {  
 super.onActivityResult(requestCode, resultCode, data);  
 if (requestCode == *RC\_SIGN\_IN*) {  
 Task<GoogleSignInAccount> task = GoogleSignIn.*getSignedInAccountFromIntent*(data);  
 try {  
 GoogleSignInAccount account = task.getResult(ApiException.class);  
 if (account != null) {**

**SharedPreferences.Editor editor = getSharedPreferences(*PREFS\_NAME*, *MODE\_PRIVATE*).edit();**

**editor.putBoolean(*KEY\_LOGGED\_IN*, true);  
 editor.putString(*KEY\_NAME*, account.getDisplayName());  
 editor.putString(*KEY\_AGE*, "21"); // default value, can update in MainActivity3  
 editor.putString(*KEY\_GENDER*, "Female"); // default  
 editor.apply();  
 Toast.*makeText*(this, "Signed in as " + account.getDisplayName(), Toast.*LENGTH\_SHORT*).show();  
 startActivity(new Intent(MainActivity2.this, MainActivity3.class));  
 finish(); }  
 } catch (ApiException e) {  
 Toast.*makeText*(this, "Sign-in failed: " + e.getMessage(), Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 }  
}**

**XML CODE:**

**<?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:id="@+id/main"  
 android:layout\_width="match\_parent android:layout\_height="match\_parent"  
 android:padding="24dp"  
 android:background="#ffffff"  
 tools:context=".MainActivity2">**

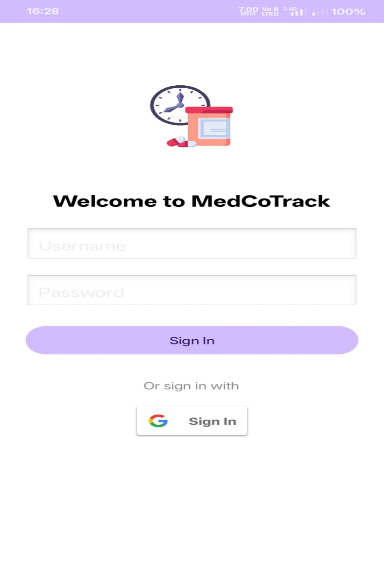
**<TextView  
 android:id="@+id/appTitle"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Welcome to MedCoTrack"  
 android:textColor="#000000"  
 android:textSize="22sp"**

**android:textStyle="bold"**

**app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.303" />  
 <EditText  
 android:id="@+id/etUsername"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content" android:layout\_marginTop="24dp"  
 android:background="@android:drawable/edit\_text"  
 android:hint="Username"  
 android:inputType="textPersonName"  
 android:padding="12dp app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/appTitle"  
 app:layout\_constraintVertical\_bias="0.0" />  
 <EditText  
 android:id="@+id/etPassword"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="16dp"  
 android:background="@android:drawable/edit\_text"  
 android:hint="Password"  
 android:inputType="textPassword"  
 android:padding="12dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/etUsername"  
 app:layout\_constraintVertical\_bias="0.003" />  
 <Button  
 android:id="@+id/btnLogin"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="20dp"  
 android:text="Sign In"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.0" app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toBottomOf="@id/etPassword"  
 app:layout\_constraintVertical\_bias="0.0" />  
 <TextView  
android:id="@+id/tvOr"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="30dp"  
 android:text="Or sign in with"  
 android:textColor="#888888"  
 app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/btnLogin"  
 app:layout\_constraintVertical\_bias="0.0" />  
 <LinearLayout  
 android:id="@+id/socialLoginLayout" android:layout\_width="0dp"  
android:layout\_height="wrap\_content" android:layout\_marginTop="16dp"  
 android:gravity="center"  
 android:orientation="horizontal" app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/tvOr"  
app:layout\_constraintVertical\_bias="0.0"> <com.google.android.gms.common.SignInButton  
 android:id="@+id/btnGoogleSignIn"  
android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" />  
 </LinearLayout>  
 <ImageView**

**android:id="@+id/imageView2"  
 android:layout\_width="114dp"  
 android:layout\_height="136dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.067"  
 app:srcCompat="@drawable/medcotackk" />  
</androidx.constraintlayout.widget.ConstraintLayout>**

****

**MAIN ACTIVITY 3**

**JAVA CODE:**

**package com.example.medcotrack;  
import android.content.Intent;**

**import android.content.SharedPreferences;  
import android.os.Bundle;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
import androidx.appcompat.app.AlertDialog;  
import androidx.appcompat.app.AppCompatActivity;  
public class MainActivity3 extends AppCompatActivity {  
 EditText nameInput, ageInput, genderInput;  
 Button nextButton;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main3*);  
 nameInput = findViewById(R.id.*nameInput*);  
 ageInput = findViewById(R.id.*ageInput*);  
 genderInput = findViewById(R.id.*genderInput*);  
 nextButton = findViewById(R.id.*nextButton*);  
 genderInput.setOnClickListener(v -> showGenderDialog());  
 nextButton.setOnClickListener(v -> {  
 String name = nameInput.getText().toString().trim();  
 String age = ageInput.getText().toString().trim();  
 String gender = genderInput.getText().toString().trim();  
 if (name.isEmpty() || age.isEmpty() || gender.isEmpty()) {  
 Toast.*makeText*(this, "Please fill all fields", Toast.*LENGTH\_SHORT*).show();  
 return;  
 }**

**// ✅ Save to SharedPreferences  
 SharedPreferences preferences getSharedPreferences("MedcoPrefs", *MODE\_PRIVATE*);  
 SharedPreferences.Editor editor = preferences.edit(); editor.putString("user\_name", name);  
 editor.putString("user\_age", age);  
 editor.putString("user\_gender", gender);  
 editor.apply();**

**// Move to MainActivity4  
 Intent intent = new Intent(MainActivity3.this, MainActivity4.class);  
 startActivity(intent);**

**});  
 }  
 private void showGenderDialog() {  
 final String[] genderOptions = {"Male", "Female", "Other"};  
 AlertDialog.Builder builder = new AlertDialog.Builder(this);  
 builder.setTitle("Select Gender");  
 builder.setItems(genderOptions, (dialog, which) -> {  
 genderInput.setText(genderOptions[which]);  
 });  
 builder.show();  
 }  
}**

**XML CODE:**

**<?xml version="1.0" encoding="utf-8"?>  
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@color/white"  
 android:padding="24dp">**

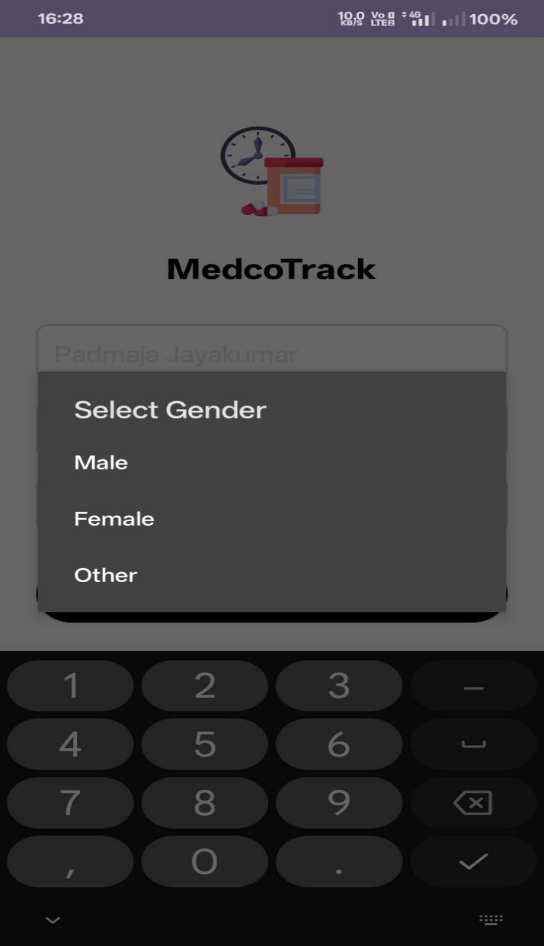
**<LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:gravity="center\_horizontal">  
 <ImageView  
 android:id="@+id/appLogo"  
 android:layout\_width="100dp"  
 android:layout\_height="100dp" android:layout\_marginTop="40dp" android:layout\_marginBottom="16dp"  
 android:contentDescription="App Logo"  
 android:src="@drawable/medcotackk" />  
 <TextView  
 android:id="@+id/appTitle"  
 android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"  
 android:text="MedcoTrack"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 android:textColor="@color/black"  
 android:layout\_marginBottom="32dp" />  
 <EditText  
 android:id="@+id/nameInput"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"**

**android:hint="Enter your Name"  
 android:inputType="textPersonName"  
 android:padding="12dp"  
 android:background="@drawable/edittext\_bg"  
 android:layout\_marginBottom="16dp" />  
 <EditText  
 android:id="@+id/ageInput"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter your Age"  
 android:inputType="number"  
 android:padding="12dp"  
 android:background="@drawable/edittext\_bg"  
 android:layout\_marginBottom="16dp" />**

**<EditText  
 android:id="@+id/genderInput"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Select Gender"  
 android:focusable="false"  
 android:clickable="true"  
 android:padding="12dp"  
 android:background="@drawable/edittext\_bg"  
 android:layout\_marginBottom="24dp" />  
 <Button  
 android:id="@+id/nextButton"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Next"  
 android:textAllCaps="false"**

**android:textSize="18sp" android:backgroundTint="@color/black"  
 android:textColor="@android:color/white"  
 android:padding="12dp" />  
 </LinearLayout>  
</ScrollView>**

****

**MAIN ACTIVITY 4**

**JAVA CODE**

**package com.example.medcotrack;  
import android.content.Intent;  
import android.content.SharedPreferences;**

**import android.os.Bundle;  
import android.view.View;**

**import android.widget.Button;  
import android.widget.ImageView;  
import android.widget.ProgressBar;  
import android.widget.TextView;  
import androidx.appcompat.app.AlertDialog**

**import androidx.appcompat.app.AppCompatActivity;  
import org.json.JSONArray;  
import org.json.JSONException;  
import org.json.JSONObject;  
import java.util.Calendar;  
public class MainActivity4 extends AppCompatActivity {  
 ProgressBar testProgressBar;**

**TextView testCount, testStatus;  
 Button addTestButton;  
 ImageView profileIcon;  
 SharedPreferences sharedPreferences;  
 private static final String *PREFS\_NAME* = "TestPrefs";  
 private static final String *TEST\_LIST\_KEY* = "SelectedTests";  
 private static final String *USER\_PREFS* = "UserPrefs";  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main4*);  
 testProgressBar = findViewById(R.id.*testProgressBar*);**

**testCount = findViewById(R.id.*testCount*);  
 testStatus = findViewById(R.id.*testStatus*);  
 addTestButton = findViewById(R.id.*addTestButton*);  
 profileIcon = findViewById(R.id.*profileIcon*);  
 sharedPreferences = getSharedPreferences(*PREFS\_NAME*, *MODE\_PRIVATE*);  
 loadTestData();  
 addTestButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Intent intent = new Intent(MainActivity4.this, MainActivity5.class);**

**startActivity(intent);**

**}**

**});  
 profileIcon.setOnClickListener(new View.OnClickListener() {  
 @Override**

**public void onClick(View view) {**

**SharedPreferences userPrefs = getSharedPreferences(*USER\_PREFS*, *MODE\_PRIVATE*);  
 String name = userPrefs.getString("name", "Name not set");  
 String age = userPrefs.getString("age", "Age not set");**

**String gender = userPrefs.getString("gender", "Gender not set");  
 String message = "Name: " + name + "\nAge: " + age + "\nGender: " + gender;  
 AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity4.this);  
 builder.setTitle("User Details");  
 builder.setMessage(message);  
 builder.setPositiveButton("OK", null);  
 builder.show();  
}**

**});**

**}  
 private void loadTestData() {  
 sharedPreferences = getSharedPreferences(*PREFS\_NAME*, *MODE\_PRIVATE*);  
 String json = sharedPreferences.getString(*TEST\_LIST\_KEY*, null); int count = 0;  
 boolean testToday = false;  
 if (json != null) {  
 try {**

**JSONArray jsonArray = new JSONArray(json);  
 count = jsonArray.length();**

**for (int i = 0; i < jsonArray.length(); i++) {  
 JSONObject test = jsonArray.getJSONObject(i);  
 String date = test.getString("date");  
 if (isToday(date)) {  
 testToday = true;  
break; }  
 }**

**} catch (JSONException e) {  
 e.printStackTrace();**

**}**

**}  
 testCount.setText(String.*valueOf*(count));  
 testProgressBar.setProgress(count);  
 testProgressBar.setMax(10); // Assuming a max of 10 tests  
 testStatus.setText(testToday ? "Test Today" : "No Test Today");  
 }  
 private boolean isToday(String dateStr) {  
 String[] parts = dateStr.split("-");  
 if (parts.length != 3) return false;  
 int year = Integer.*parseInt*(parts[0]);  
 int month = Integer.*parseInt*(parts[1]) - 1;  
 int day = Integer.*parseInt*(parts[2]);**

**Calendar calendar = Calendar.*getInstance*();  
 return calendar.get(Calendar.*YEAR*) == year &&  
 calendar.get(Calendar.*MONTH*) == month &&  
 calendar.get(Calendar.*DAY\_OF\_MONTH*) == day;**

**}  
 @Override  
 protected void onResume() {  
 super.onResume();  
 loadTestData();  
 }  
}**

**XML CODE**

**<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:id="@+id/activity\_main4"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="#FFF4F4"  
 tools:context=".MainActivity4">  
 <!-- App Icon and Name -->  
 <LinearLayout  
 android:id="@+id/headerLayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:padding="16dp"**

**android:orientation="horizontal"  
 android:gravity="center\_vertical">  
 <ImageView  
 android:id="@+id/appIcon"  
 android:layout\_width="40dp"  
 android:layout\_height="40dp"  
 android:contentDescription="App Icon"  
 android:src="@drawable/medcotackk" />  
 <TextView  
 android:id="@+id/appName"**

**android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="MedcoTrack"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 android:paddingStart="10dp" />  
 </LinearLayout>  
 <!-- Profile Icon -->  
 <ImageView  
 android:id="@+id/profileIcon"  
 android:layout\_width="40dp"  
 android:layout\_height="40dp"  
 android:layout\_alignParentTop="true" android:layout\_alignParentEnd="true" android:layout\_margin="16dp"  
 android:background="@drawable/profile"  
 android:contentDescription="Profile"  
 android:padding="4dp"  
 android:src="@drawable/profile" />  
 <!-- ProgressBar and Count -->  
 <LinearLayout  
 android:id="@+id/progressLayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_centerInParent="true"  
 android:gravity="center"  
 android:padding="16dp">  
 <ProgressBar**

**android:id="@+id/testProgressBar"**

**style="@android:style/Widget.ProgressBar.Horizontal"  
 android:layout\_width="150dp"  
 android:layout\_height="150dp"  
 android:layout\_marginBottom="16dp"  
 android:indeterminateOnly="false"**

**android:max="10"  
 android:progress="0"  
 android:progressDrawable="@drawable/progressbar"  
 android:rotation="-90" />  
 <TextView  
 android:id="@+id/testCount"  
 android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"  
 android:text="0"**

**android:textSize="36sp"  
 android:textColor="#880000"  
 android:textStyle="bold" />  
 <TextView  
 android:id="@+id/testStatus"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"**

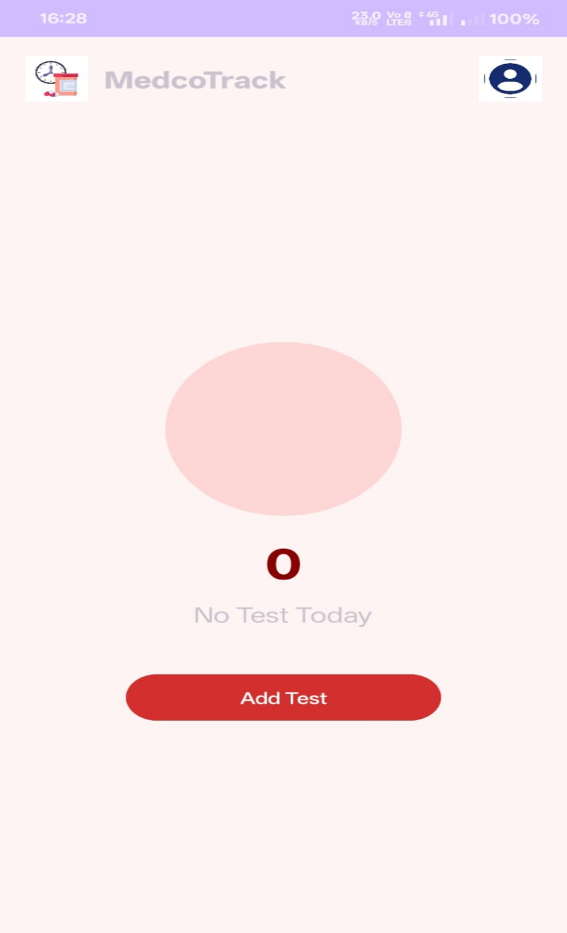
**android:text="No Test Today"  
 android:textSize="18sp"  
 android:layout\_marginTop="8dp" />**

**</LinearLayout>  
 <!-- Add Test Button -->  
 <Button**

**android:id="@+id/addTestButton"**

**android:layout\_width="200dp" android:layout\_height="wrap\_content"  
 android:text="Add Test"  
 android:layout\_below="@id/progressLayout"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="20dp"  
 android:backgroundTint="#D32F2F"  
 android:textColor="#FFFFFF" />**

**</RelativeLayout>**

****

**MAIN ACTIVITY 5**

**JAVA CODE**

**package com.example.medcotrack;  
import android.app.DatePickerDialog;  
import android.content.Context;  
import android.content.Intent;  
import android.content.SharedPreferences;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.CheckBox;  
import android.widget.TextView;  
import android.widget.Toast;  
import androidx.appcompat.app.AppCompatActivity;  
import java.text.SimpleDateFormat;  
import java.util.Calendar;**

**import java.util.HashMap;  
import java.util.LinkedHashMap;  
import java.util.Locale;  
import java.util.Map;  
public class MainActivity5 extends AppCompatActivity {  
 private Map<CheckBox, TextView> testDateMap = new LinkedHashMap<>();  
 private SharedPreferences sharedPreferences;**

**private final String PREF\_NAME = "TestPrefs";**

**@Override  
 protected void onCreate(Bundle savedInstanceState) {  
super.onCreate(savedInstanceState); setContentView(R.layout.*activity\_main5*);  
 sharedPreferences = getSharedPreferences(PREF\_NAME, *MODE\_PRIVATE*);  
 setupTests();  
 loadSavedSelections();  
 Button nextButton = findViewById(R.id.*nextButton*);  
 nextButton.setOnClickListener(v -> {**

**saveSelections();  
 startActivity(new Intent(MainActivity5.this, MainActivity6.class)); });  
 }**

**private void setupTests() {  
 addTest(R.id.*test1*, R.id.*date1*);  
 addTest(R.id.*test2*, R.id.*date2*);  
 addTest(R.id.*test3*, R.id.*date3*);  
 addTest(R.id.*test4*, R.id.*date4*);  
 addTest(R.id.*test5*, R.id.*date5*);  
 addTest(R.id.*test6*, R.id.*date6*);  
 addTest(R.id.*test7*, R.id.*date7*);  
 addTest(R.id.*test8*, R.id.*date8*);  
 addTest(R.id.*test9*, R.id.*date9*);  
 addTest(R.id.*test10*, R.id.*date10*);**

**}  
 private void addTest(int checkBoxId, int dateViewId) {  
 CheckBox checkBox = findViewById(checkBoxId);  
 TextView dateView = findViewById(dateViewId);  
 testDateMap.put(checkBox, dateView);  
 checkBox.setOnCheckedChangeListener((buttonView, isChecked) -> {  
 if (isChecked) {  
 showDatePicker(dateView);  
 } else {  
 dateView.setText("Date: None");**

**}  
 });  
 }  
 private void showDatePicker(TextView dateView) {  
 Calendar calendar = Calendar.*getInstance*();  
 DatePickerDialog dialog = new DatePickerDialog(this,  
 (view, year, month, dayOfMonth) -> {  
 String dateStr = dayOfMonth + "/" + (month + 1) + "/" + year;  
 dateView.setText("Date: " + dateStr);  
 },  
 calendar.get(Calendar.*YEAR*),  
 calendar.get(Calendar.*MONTH*),  
 calendar.get(Calendar.*DAY\_OF\_MONTH*));**

**dialog.show();  
 }  
 private void saveSelections() {  
 SharedPreferences.Editor editor = sharedPreferences.edit();  
 editor.clear();  
 int count = 0;  
 for (Map.Entry<CheckBox, TextView> entry : testDateMap.entrySet()) {  
 CheckBox checkBox = entry.getKey();  
 TextView dateView = entry.getValue();**

**if (checkBox.isChecked() && !dateView.getText().toString().equals("Date: None")) {  
 editor.putString(checkBox.getText().toString(), dateView.getText().toString());  
 count++;  
 }  
 }  
 editor.putInt("testCount", count); // For progress bar  
 editor.apply();**

**}**

**private void loadSavedSelections() {  
 for (Map.Entry<CheckBox, TextView> entry :**

**testDateMap.entrySet()) {  
 CheckBox checkBox = entry.getKey();  
 TextView dateView = entry.getValue();  
 String testName = checkBox.getText().toString();  
 if (sharedPreferences.contains(testName)) {  
checkBox.setChecked(true);  
 dateView.setText(sharedPreferences.getString(testName, "Date: None"));  
 }  
 }  
 }**

**}**

**XML CODE**

**<?xml version="1.0" encoding="utf-8"?>  
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="16dp">  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical">  
 <!-- Logo centered -->  
 <ImageView  
 android:id="@+id/appLogo"  
 android:layout\_width="100dp"  
 android:layout\_height="100dp"  
 android:layout\_gravity="center"  
 android:layout\_marginTop="16dp"  
 android:src="@drawable/medcotackk"  
 android:contentDescription="App Logo" />  
 <!-- App name centered -->  
 <TextView**

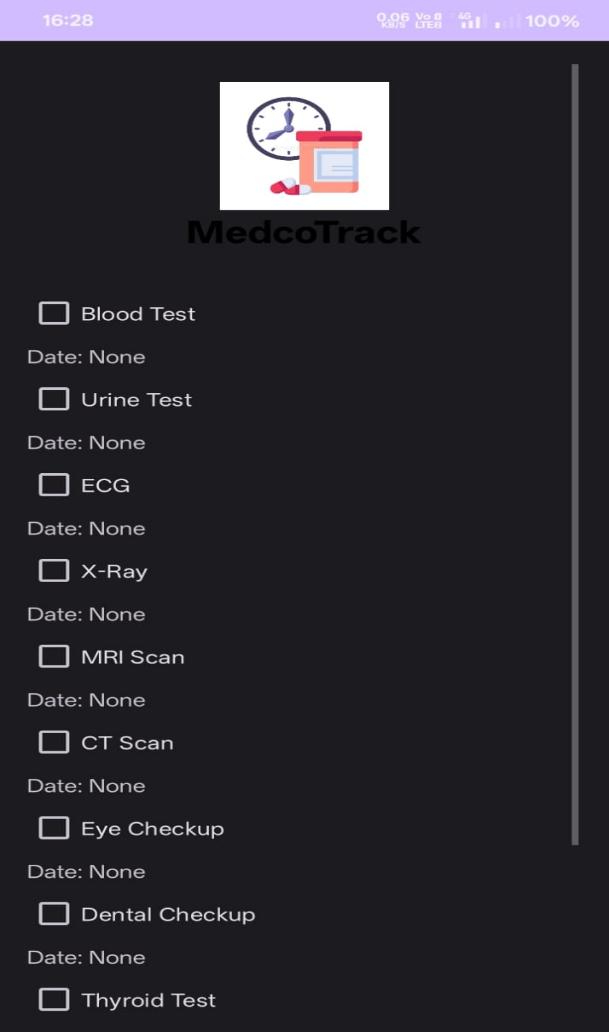
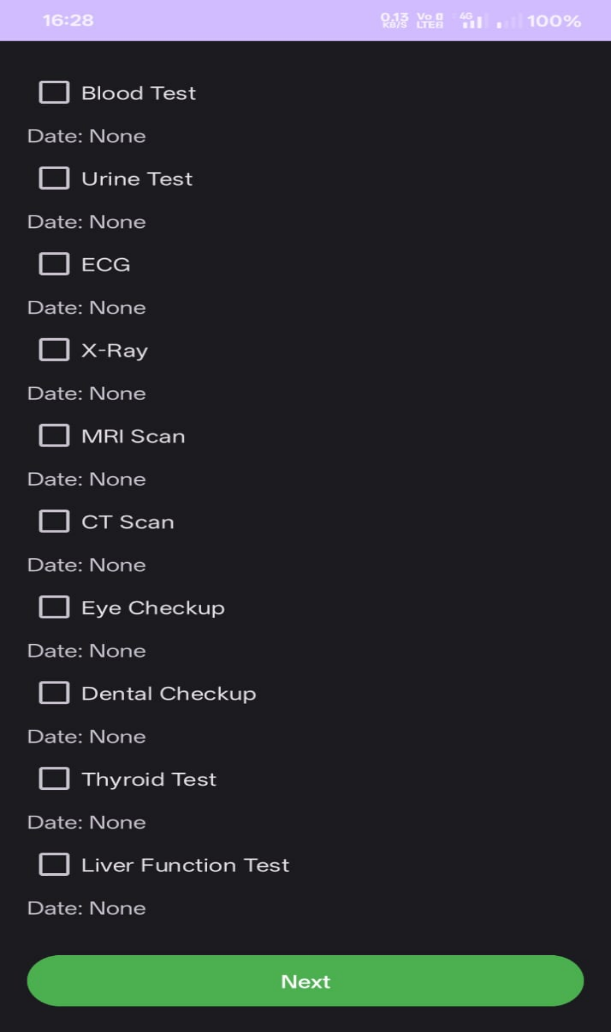
**android:id="@+id/appName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center"  
 android:text="MedcoTrack"  
 android:textSize="24sp"  
 android:textStyle="bold"**

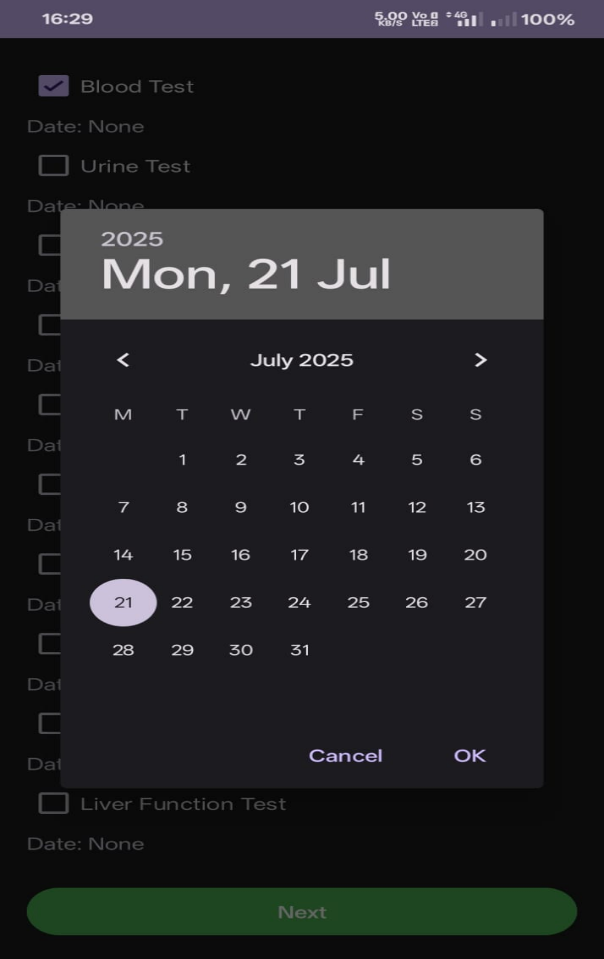
**android:textColor="#000000"  
 android:layout\_marginBottom="24dp" />  
 <!-- List of tests and dates -->  
 <LinearLayout  
 android:orientation="vertical"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content">  
 <!-- Repeating structure for each test -->  
 <CheckBox android:id="@+id/test1" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Blood Test" />**

**<TextView android:id="@+id/date1" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Date: None" />  
 <CheckBox android:id="@+id/test2" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Urine Test" />  
 <TextView android:id="@+id/date2" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Date: None" />  
 <CheckBox android:id="@+id/test3" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="ECG" /> <TextView android:id="@+id/date3" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Date: None" /> <CheckBox android:id="@+id/test4" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="X-Ray" />  
 <TextView android:id="@+id/date4" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Date: None" />  
 <CheckBox android:id="@+id/test5" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="MRI Scan" />  
 <TextView android:id="@+id/date5"**

**android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Date: None" />  
 <CheckBox android:id="@+id/test6" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="CT Scan" />  
 <TextView android:id="@+id/date6" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Date: None" />  
 <CheckBox android:id="@+id/test7" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Eye Checkup" />  
 <TextView android:id="@+id/date7" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Date: None" />  
 <CheckBox android:id="@+id/test8" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Dental Checkup" / <TextView android:id="@+id/date8" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Date: None" />  
 <CheckBox android:id="@+id/test9" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Thyroid Test" />  
 <TextView android:id="@+id/date9" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Date: None" />  
 <CheckBox android:id="@+id/test10" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Liver Function Test" />  
 <TextView android:id="@+id/date10" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Date: None" />  
 </LinearLayout>**

**<!-- Next button at bottom -->  
 <Button  
 android:id="@+id/nextButton"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Next"  
 android:layout\_marginTop="24dp"  
 android:backgroundTint="#4CAF50"  
 android:textColor="#FFFFFF" />  
 </LinearLayout>  
</ScrollView>**

** **

****

**MAIN ACTIVITY 6**

**JAVA CODE**

**package com.example.medcotrack;  
import android.content.SharedPreferences;  
import android.os.Bundle;  
import android.widget.ImageView;  
import android.widget.TextView;  
import androidx.appcompat.app.AppCompatActivity;  
public class MainActivity6 extends AppCompatActivity {  
 private TextView upcomingTestsTextView;**

**private SharedPreferences sharedPreferences;  
 private final String PREF\_NAME = "MedcoPrefs";  
 private final String SELECTED\_TESTS\_KEY = "SelectedTests";  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main6*);  
 // Display app name and logo  
 TextView appName = findViewById(R.id.*appName*);  
 ImageView appLogo = findViewById(R.id.*appLogo*);**

**appName.setText("MedcoTrack"); // Set your app name  
 upcomingTestsTextView = findViewById(R.id.*upcomingTestsTextView*);  
 sharedPreferences = getSharedPreferences(PREF\_NAME, *MODE\_PRIVATE*);  
 loadUpcomingTests();  
 }  
 private void loadUpcomingTests() {  
 String savedTests = sharedPreferences.getString(SELECTED\_TESTS\_KEY, "");  
 if (!savedTests.isEmpty()) {**

**upcomingTestsTextView.setText("Upcoming Tests\n\n" savedTests);  
 } else {  
 upcomingTestsTextView.setText("Upcoming Tests\n\nNo tests scheduled.");  
 }**

**}  
}**

**XML CODE**

**<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:id="@+id/main6Layout" android:layout\_width="match\_parent" android:layout\_height="match\_parent"  
 android:orientation="vertical"**

**android:padding="20dp"  
 android:gravity="center\_horizontal" android:background="#FFFFFF">  
 <!-- App Logo and Name -->**

**<LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:gravity="center"  
 android:orientation="horizontal"  
 android:layout\_marginBottom="16dp">  
 <ImageView  
 android:id="@+id/appLogo"  
 android:layout\_width="48dp"  
 android:layout\_height="48dp"  
 android:src="@drawable/medcotackk"  
 android:contentDescription="App Logo"  
 android:layout\_marginEnd="8dp" />  
 <TextView  
 android:id="@+id/appName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="MedcoTrack"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 android:textColor="#000000"/>**

**</LinearLayout>  
 <!-- Upcoming Tests Display -->  
 <TextView  
 android:id="@+id/upcomingTestsTextView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Upcoming Tests"  
 android:textSize="18sp"  
 android:textStyle="bold"  
 android:gravity="start"  
 android:textColor="#333333" />  
</LinearLayout>**

**ANDROID MANIFEST. XML CODE:**

## <?xml version="1.0" encoding="utf-8"?> <manifest xmlns:android="http://schemas.android.com/apk/res/android" xmlns:tools="http://schemas.android.com/tools" package="com.example.medcotrack"> <!-- Permission to post notifications (for Android 13 and above) --> <uses-permission android:name="android.permission.POST\_NOTIFICATIONS" /> <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.MedcoTrack">  
 <activity**

**android:name=".MainActivity5"**

**android:exported="false" /> <!-- BroadcastReceiver for Test Notifications -->**

**<receiver  
 android:name=".NotificationReceiver"  
 android:exported="true"**

**tools:ignore="ExportedReceiver" /> <!-- Splash Screen --> <activity  
 android:name=".MainActivity"  
 android:exported="true">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
 <category android:name="android.intent.category.LAUNCHER" /> </intent-filter>  
 </activity> <!-- Login Screen -->  
 <activity  
 android:name=".MainActivity2"  
 android:exported="true" /> <!-- Profile Entry -->  
 <activity  
 android:name=".MainActivity3"**

**android:exported="true" /> <!-- Dashboard/Main Screen --> <activity**

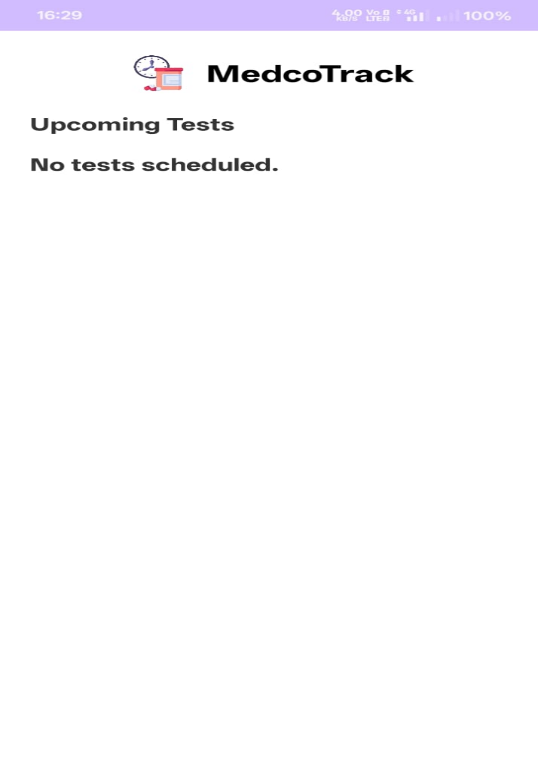
**android:name=".MainActivity4"**

**android:exported="true" />  
 <activity**

**android:name=".MainActivity6"/>**

**</application>  
</manifest>**

**FINAL OUTPUT**

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**CONCLUSION:**

The Medco Track app serves as an efficient and user-friendly platform for organizing medical tests and sending timely reminders to users. Developed using Android Share, this app ensures smooth sharing and management of health records directly through mobile devices. By integrating essential features like test scheduling, notification alerts, and health record tracking, Medco Track empowers users to take control of their health in a more organized and proactive way. The app demonstrates how mobile technology can be effectively used to improve personal healthcare management, making it a valuable tool for individuals seeking a healthier lifestyle through timely medical follow-ups.