**Activity\_main.xml**

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout 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:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="10dp"  
 android:orientation="horizontal">  
  
 <TextView  
 android:layout\_width="100dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 android:text="MEDICINE DATABASE"  
 android:textAllCaps="false"  
 android:textColor="#740D0101"  
 android:textSize="20sp" />  
  
 </LinearLayout>  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="10dp"  
 android:orientation="horizontal">  
  
 <TextView  
  
 android:layout\_width="75dp"  
 android:layout\_height="48dp"  
 android:layout\_weight="1"  
 android:text="Insert"  
 android:textAllCaps="false"  
 android:textColor="#740D0101"  
 android:textSize="20sp" />  
  
 <Switch  
 android:id="@+id/switch1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="48dp"  
 android:layout\_weight="1" />  
  
 <TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="48dp"  
 android:layout\_weight="1"  
 android:text="Fetch"  
 android:textSize="20sp" />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="10dp"  
 android:orientation="horizontal">  
  
 <TextView  
 android:id="@+id/medtext"  
 android:layout\_width="100dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Medicine Name"  
 android:textAllCaps="false"  
 android:textColor="#740D0101"  
 android:textSize="24sp" />  
  
 <EditText  
 android:id="@+id/medicinename"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:hint="Enter Medicine Name"  
 android:textSize="20sp" />  
 </LinearLayout>  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="10dp"  
 android:orientation="horizontal">  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="100dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Date"  
 android:textAllCaps="false"  
 android:textColor="#740D0101"  
 android:textSize="24sp" />  
  
 <EditText  
 android:id="@+id/date"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:inputType="date"  
 android:hint="Enter Date DD/MM/YYYY"  
 android:textSize="24sp" />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="10dp"  
 android:orientation="horizontal">  
  
 <TextView  
 android:layout\_width="100dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Time of the day"  
 android:textAllCaps="false"  
 android:textColor="#740D0101"  
 android:textSize="20sp" />  
  
 <Spinner  
 android:id="@+id/spinner"  
 android:layout\_width="24dp"  
 android:layout\_height="48dp"  
 android:layout\_weight="1"  
 android:entries="@array/timeoftheday" />  
 </LinearLayout>  
  
 <Button  
 android:id="@+id/insert"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:text="INSERT" />  
  
 <Button  
 android:id="@+id/fetch"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:text="FETCH" />  
  
</LinearLayout>

**Project Tab->res->values->String.xml (Spinner values)**

<resources>  
 <string name="app\_name">MedicineReminder</string>  
 <string-array name="timeoftheday">  
 <item> MORNING </item>  
 <item> AFTERNOON </item>  
 <item> EVENING </item>  
 <item> NIGHT </item>  
 </string-array>  
</resources>

**Mainactivity.java**

package com.example.medicinereminder;  
import android.database.Cursor;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.CompoundButton;  
import android.widget.EditText;  
import android.widget.Spinner;  
import android.widget.Switch;  
import android.widget.TextView;  
import android.widget.Toast;  
import androidx.activity.EdgeToEdge;  
import androidx.appcompat.app.AppCompatActivity;  
  
  
public class MainActivity extends AppCompatActivity {  
 EditText medname,meddate;  
 Button insert,fetch;  
 Spinner day;  
 Switch switch1;  
 TextView medtxt;  
 DatabaseConnection dbconnection;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 EdgeToEdge.*enable*(this);  
 setContentView(R.layout.*activity\_main*);  
 medname=(EditText)findViewById(R.id.*medicinename*);  
 meddate=(EditText)findViewById(R.id.*date*);  
 insert=(Button)findViewById(R.id.*insert*);  
 fetch=(Button)findViewById(R.id.*fetch*);  
 day=(Spinner)findViewById(R.id.*spinner*);  
 switch1=(Switch)findViewById(R.id.*switch1*);  
 medtxt=(TextView)findViewById(R.id.*medtext*);  
 dbconnection=new DatabaseConnection(this);  
  
 fetch.setVisibility(View.*INVISIBLE*);  
 switch1.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {  
 @Override  
 public void onCheckedChanged(CompoundButton compoundButton, boolean b) {  
 if(!b)  
 {  
 fetch.setVisibility(View.*INVISIBLE*);  
 insert.setVisibility(View.*VISIBLE*);  
 medname.setVisibility(View.*VISIBLE*);  
 medtxt.setVisibility(View.*VISIBLE*);  
 }  
 else{  
 fetch.setVisibility(View.*VISIBLE*);  
 insert.setVisibility(View.*INVISIBLE*);  
 medname.setVisibility(View.*INVISIBLE*);  
 medtxt.setVisibility(View.*INVISIBLE*);  
 }  
 }  
 });  
  
  
 insert.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String name=medname.getText().toString();  
 String date=meddate.getText().toString();  
 String time=day.getSelectedItem().toString();  
 boolean insert=dbconnection.insertvalues(name,date,time);  
 if(insert==true)  
 {  
 Toast.*makeText*(getApplicationContext(), "Data Inserted", Toast.*LENGTH\_LONG*).show();  
 medname.setText(" ");  
 meddate.setText(" ");  
 }  
 else {  
 Toast.*makeText*(getApplicationContext(), "Data Not Inserted", Toast.*LENGTH\_LONG*).show();  
 }  
 }  
 });  
  
 fetch.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String date=meddate.getText().toString();  
 String time=day.getSelectedItem().toString();  
 String med="";  
 Cursor c=dbconnection.FetchData(date,time);  
 if(c.moveToFirst()) {  
 do {  
 med += (String.*valueOf*(c.getString(c.getColumnIndexOrThrow("MedicineName"))));  
 med += "\n";  
 } while (c.moveToNext());  
 Toast.*makeText*(getApplicationContext(), med, Toast.*LENGTH\_LONG*).show();  
 }  
 else  
 Toast.*makeText*(getApplicationContext(), "No Entries in Database", Toast.*LENGTH\_SHORT*).show();  
 }  
 });  
  
 }  
  
  
}

**DatabaseConnection.java**

package com.example.medicinereminder;  
import android.content.ContentValues;  
import android.content.Context;  
import android.database.Cursor;  
import android.database.sqlite.SQLiteDatabase;  
import android.database.sqlite.SQLiteOpenHelper;  
import androidx.annotation.Nullable;  
  
public class DatabaseConnection extends SQLiteOpenHelper {  
 public DatabaseConnection(Context context) {  
 super(context, "Medicinedb", null, 1);  
 }  
  
 @Override  
 public void onCreate(SQLiteDatabase sqLiteDatabase) {  
 sqLiteDatabase.execSQL("create Table MDTable(MedicineName Text,date TEXT,time TEXT)");  
 }  
  
 @Override  
 public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {  
  
 }  
  
 public boolean insertvalues(String medname,String meddate,String medtime)  
 {  
 SQLiteDatabase database=this.getWritableDatabase();  
 ContentValues contentValues=new ContentValues();  
 contentValues.put("MedicineName",medname);  
 contentValues.put("date",meddate);  
 contentValues.put("time",medtime);  
 long res=database.insert("MDTable",null,contentValues);  
 if(res==-1)  
 return false;  
 else  
 return true;  
 }  
  
 public Cursor FetchData(String date,String time)  
 {  
 SQLiteDatabase database=this.getReadableDatabase();  
 Cursor c=database.rawQuery("Select \* from MDTable where date='"+date+"' AND time='"+time+"'",null);  
 return c;  
 }  
}