Implementation of SQLite database

Main.java

```
package com.example.myapps;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;

public class Main extends Activity {
	@Override
	protected void onCreate(Bundle savedInstanceState) {
		// TODO Auto-generated method stub
		super.onCreate(savedInstanceState);
		setContentView(R.layout.main);
		final EditText name=(EditText)findViewById(R.id.editText1);
		final EditText reason = (EditText)findViewById(R.id.editText2);
		Button btn = (Button)findViewById(R.id.button1);
		final RadioGroup rg = (RadioGroup)findViewById(R.id.rg);
		btn.setOnClickListener(new OnClickListener() {

			@Override
			public void onClick(View v) {
				// TODO Auto-generated method stub
				String mName = name.getText().toString();
				String mReason = reason.getText().toString();
				int id = rg.getCheckedRadioButtonId();
				RadioButton b = (RadioButton)findViewById(id);
				String mCheck = b.getText().toString();
				bonafide obj = new bonafide(mName, mReason, mCheck);
				Dbhandler db = new Dbhandler(getApplicationContext());
				db.applynew(obj);
				Toast.makeText(getApplicationContext(),"Added to DB",
Toast.LENGTH_LONG).show();
				Intent intent = new Intent(getApplicationContext(),second.class);
				startActivity(intent);
			}
		});
	}
}
```

Dbhandler.java

```
package com.example.myapps;

import java.util.ArrayList;
import java.util.List;

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

public class Dbhandler extends SQLiteOpenHelper {
        private static final int DATABASE_VERSION = 5;
        private static final String DATABASE_NAME = "shiva.db";
        private static final String TABLE_CONTACTS = "bonafide";
        private static final String KEY_ID = "id";
        private static final String KEY_NAME = "name";
        private static final String KEY_REASON = "reason";
        private static final String KEY_GENDER = "gender";
        public Dbhandler(Context context) {
                super(context, DATABASE_NAME, null, DATABASE_VERSION);
                //3rd argument to be passed is CursorFactory instance
        }

        @Override
        public void onCreate(SQLiteDatabase db) {
                // TODO Auto-generated method stub
                String CREATE_CONTACTS_TABLE = "CREATE TABLE " + TABLE_CONTACTS + "("
          + KEY_ID + " INTEGER PRIMARY KEY," + KEY_NAME + " TEXT,"
          + KEY_REASON + " TEXT," + KEY_GENDER + " TEXT"+");";
    db.execSQL(CREATE_CONTACTS_TABLE);
        }

        @Override
        public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
                // TODO Auto-generated method stub
           db.execSQL("DROP TABLE IF EXISTS " + TABLE_CONTACTS);

    // Create tables again
    onCreate(db);
        }
         void applynew(bonafide contact) {
              SQLiteDatabase db = this.getWritableDatabase();

              ContentValues values = new ContentValues();
              values.put(KEY_NAME, contact.getName()); // Contact Name
```

```
        values.put(KEY_GENDER, contact.getGender()); // Contact Phone
        values.put(KEY_REASON, contact.getReason());
        // Inserting Row
        db.insert(TABLE_CONTACTS, null, values);
        //2nd argument is String containing nullColumnHack
        db.close(); // Closing database connection
}
 public List<bonafide> getAllContacts() {
        List<bonafide> contactList = new ArrayList<bonafide>();
        // Select All Query
        String selectQuery = "SELECT  * FROM " + TABLE_CONTACTS;

        SQLiteDatabase db = this.getWritableDatabase();
        Cursor cursor = db.rawQuery(selectQuery, null);

        // looping through all rows and adding to list
        if (cursor.moveToFirst()) {
            do {
                bonafide contact = new bonafide();
                contact.setID(Integer.parseInt(cursor.getString(0)));
                contact.setName(cursor.getString(1));
                contact.setReason(cursor.getString(2));
                contact.setGender(cursor.getString(3));
                // Adding contact to list
                contactList.add(contact);
            } while (cursor.moveToNext());
        }

        // return contact list
        return contactList;
    }
 public int updateContact(bonafide contact) {
        SQLiteDatabase db = this.getWritableDatabase();

        ContentValues values = new ContentValues();
        values.put(KEY_NAME, contact.getName()); // Contact Name
        values.put(KEY_GENDER, contact.getGender()); // Contact Phone
        values.put(KEY_REASON, contact.getReason());

        // updating row
        return db.update(TABLE_CONTACTS, values, KEY_ID + " = ?",
                new String[] { String.valueOf(1) });
    }
 public void deleteContact(int id) {
        SQLiteDatabase db = this.getWritableDatabase();
        db.delete(TABLE_CONTACTS, KEY_ID + " = ?",
                new String[] { String.valueOf(1) });
        db.close();
```

```
            }
}
```

main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_margin="15dp"
    android:orientation="vertical" >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Name" />

    <EditText
        android:id="@+id/editText1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10" >

        <requestFocus />
    </EditText>

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Reason" />

    <EditText
        android:id="@+id/editText2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Gender" />
            <RadioGroup
                android:id="@+id/rg"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                >
```

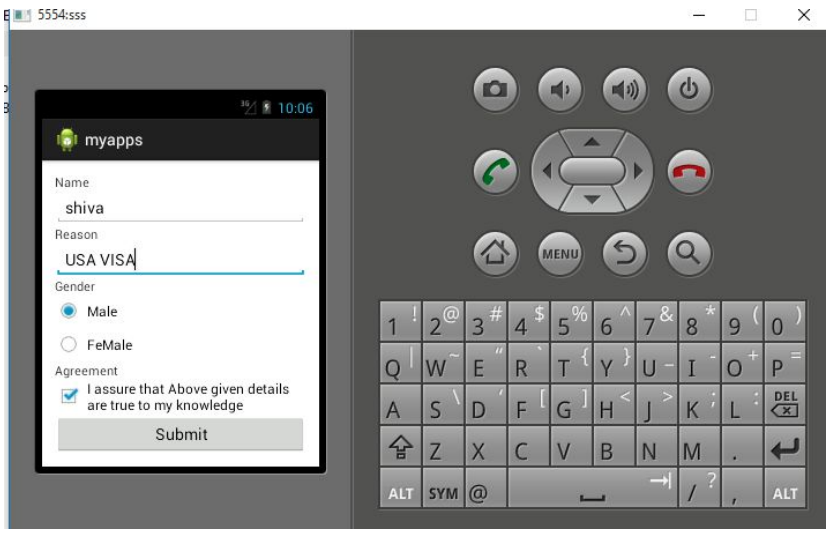
```
            <RadioButton
                android:id="@+id/rb1"
                android:text="Male"
                />

            <RadioButton
                android:id="@+id/rb2"
                android:text="FeMale"
                />
        </RadioGroup>

        <TextView
            android:id="@+id/textView4"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Agreement" />

        <CheckBox
            android:id="@+id/checkBox1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="I assure that Above given details are true to my knowledge" />

        <Button
            android:id="@+id/button1"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Update" />

</LinearLayout>
```

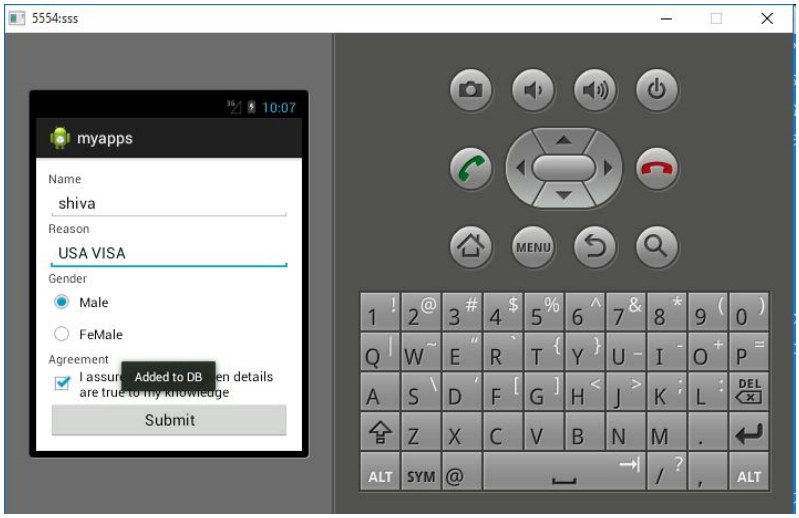
manifest.xml

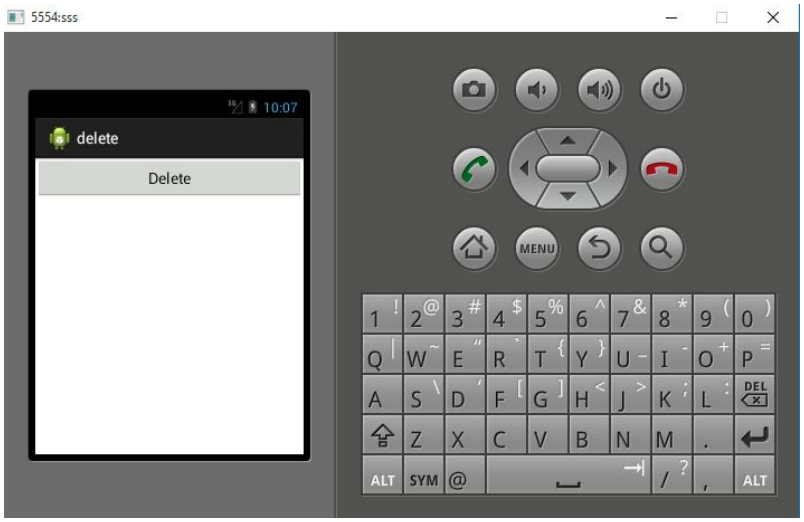
```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.myapps"
    android:versionCode="1"
    android:versionName="1.0" >

    <uses-sdk
        android:minSdkVersion="8"
        android:targetSdkVersion="16" />

    <application
        android:allowBackup="true"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@style/AppTheme" >
        <activity
```

```
        android:name=".Main"
        android:label="myapps"
        >
        <intent-filter>
                    <action android:name="android.intent.action.MAIN" />

            <category android:name="android.intent.category.LAUNCHER" />

        </intent-filter>
      </activity>
      <activity android:name=".delete"
        android:label="delete"
        ></activity>
      <activity android:name=".second"
        android:label="update"
        ></activity>
   </application>

</manifest>
```

output :




5554:sss
10:07
myapps
Name
shiva
Reason
USA VISA
Gender
Male
FeMale
Agreement
Added to DB
Submit
MENU


5554:sss
10:07
delete
Delete
MENU