U18CO018 Shubham Shekhaliya Assignment – 8 (ST)

Question: Assume you are a software developer and your company wants you to develop an android app which stores contact information (such as Name, Mobile No, Email, Address etc.) in SQLite database and provides following options to its users.

- (a) Enter a new contact
- (b) Search for an existing contact
- (c) Delete an existing contact
- (d) Update/Edit an existing contact

MainActivity.java

```
public class MainActivity extends AppCompatActivity implements NavigationView.OnN
avigationItemSelectedListener {
    private DrawerLayout drawer;
    private ActionBarDrawerToggle toggle;
   @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        drawer = findViewById(R.id.draw_layout);
        NavigationView navigationView = findViewById(R.id.nav view);
        navigationView.setNavigationItemSelectedListener(this);
        toggle = new ActionBarDrawerToggle(this,drawer,
                R.string.navigation_drawer_open,R.string.navigation_drawer_close)
        drawer.addDrawerListener(toggle);
        toggle.syncState();
        Objects.requireNonNull(getSupportActionBar()).setDisplayHomeAsUpEnabled(t
rue);
        if(savedInstanceState == null) {
            getSupportFragmentManager().beginTransaction().replace(R.id.fragment_
container,new ContactEntryFragment()).commit();
            navigationView.setCheckedItem(R.id.contactEntry);
```

```
@Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        if(toggle.onOptionsItemSelected(item)) {
            return true;
        return super.onOptionsItemSelected(item);
    }
    @Override
    public void onBackPressed() {
        if(drawer.isDrawerOpen(GravityCompat.START)){
            drawer.closeDrawer(GravityCompat.START);
            return;
        super.onBackPressed();
    @Override
    public boolean onNavigationItemSelected(@NonNull MenuItem item) {
        switch (item.getItemId()) {
            case R.id.contactEntry:
                getSupportFragmentManager().beginTransaction().replace(R.id.fragm
ent_container,new ContactEntryFragment()).commit();
                break;
            case R.id.viewEntries:
                getSupportFragmentManager().beginTransaction().replace(R.id.fragm
ent_container,new ViewContactFragment()).commit();
                break;
            case R.id.search:
                getSupportFragmentManager().beginTransaction().replace(R.id.fragm
ent_container,new SerachFragment()).commit();
                break;
            case R.id.updateEntry:
                getSupportFragmentManager().beginTransaction().replace(R.id.fragm
ent_container,new UpdateFragment()).commit();
                break;
```

DatabaseHandler.java

```
public class DatabaseHandler extends SQLiteOpenHelper {
    public static final String DATABASE NAME = "ContactDatabase.db";
    public static final String CONTACT_TABLE_NAME = "contact";
    public static final String CONTACT_COLUMN_ID = "id";
    public static final String CONTACT_COLUMN_NAME = "name";
    public static final String CONTACT_COLUMN_PHONE = "phone";
    public static final String CONTACT COLUMN EMAIL = "email";
    public static final String CONTACT_COLUMN_ADDRESS = "address";
    public DatabaseHandler(@Nullable Context context) {
        super(context,DATABASE_NAME,null,1);
   @Override
    public void onCreate(SQLiteDatabase sqLiteDatabase) {
        sqLiteDatabase.execSQL("Create table contact ( id INTEGER PRIMARY KEY AUT
OINCREMENT, name text not null, phone text not null ,email text not null ,address
 text not null);");
   @Override
    public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {
        sqLiteDatabase.execSQL("DROP TABLE IF EXISTS " + CONTACT_TABLE_NAME);
        onCreate(sqLiteDatabase);
    public boolean insertData (String name, String phone, String email, String ad
dress) {
        boolean isSuccess = false;
        SQLiteDatabase db = this.getWritableDatabase();
        ContentValues content = new ContentValues();
        content.put(CONTACT_COLUMN_NAME, name);
        content.put(CONTACT COLUMN PHONE, phone);
```

```
content.put(CONTACT_COLUMN_EMAIL, email);
        content.put(CONTACT COLUMN ADDRESS,address);
        isSuccess = db.insert(CONTACT_TABLE_NAME, null, content) > 0;
       db.close();
       return isSuccess;
    }
   public Cursor getData() {
       SQLiteDatabase sqLiteDatabase = this.getReadableDatabase();
       return sqLiteDatabase.rawQuery("select * from contact", null);
   public Cursor getDataById(String s) {
       SQLiteDatabase sqLiteDatabase = this.getReadableDatabase();
       String str = "select * from contact where id = " + s;
       return sqLiteDatabase.rawQuery(str ,null);
   public void updateData(int id, String name, String phone, String email, Strin
g address) {
       SQLiteDatabase db = this.getWritableDatabase();
       db.execSQL("update contact set name = '" + name + "', phone = '" + phone
 "', email = '" + email + "', address = '" + address + "' where id = " + id);
   public void deleteData(String s) {
       SQLiteDatabase db = this.getWritableDatabase();
       db.execSQL("delete from contact where id = " + s);
```

ContactInformation.java

```
public class ContactInformation {
    private int id;
    private String name;
    private String phone;
    private String email;
    private String address;

    public ContactInformation() {
    }

    public ContactInformation(int id, String name, String phone, String email, String address) {
```

```
this.id = id;
    this.name = name;
    this.phone = phone;
    this.email = email;
    this.address = address;
public int getId() {
    return id;
public void setId(int id) {
    this.id = id;
public String getName() {
    return name;
public void setName(String name) {
    this.name = name;
public String getPhone() {
    return phone;
}
public void setPhone(String phone) {
    this.phone = phone;
public String getEmail() {
    return email;
public void setEmail(String email) {
    this.email = email;
public String getAddress() {
    return address;
public void setAddress(String address) {
   this.address = address;
```

```
}
}
```

ContactEntryFragment.java

```
public class ContactEntryFragment extends Fragment {
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        return inflater.inflate(R.layout.fragment_contact_entry, container, false
);
    private EditText nameEt, phoneEt, emailEt, addressEt;
    private Button submitBtn;
    @Override
    public void onViewCreated(@NonNull View view, @Nullable Bundle savedInstanceS
tate) {
        super.onViewCreated(view, savedInstanceState);
        nameEt = view.findViewById(R.id.nameEt);
        phoneEt = view.findViewById(R.id.phoneEt);
        emailEt = view.findViewById(R.id.emailEt);
        addressEt = view.findViewById(R.id.addressEt);
        submitBtn = view.findViewById(R.id.submitBtn);
        submitBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String phone = phoneEt.getText().toString().trim();
                String name = nameEt.getText().toString().trim();
                String email = emailEt.getText().toString().trim();
                String address = addressEt.getText().toString().trim();
                if (phone.isEmpty() || name.isEmpty() || email.isEmpty() || addre
ss.isEmpty()) {
                    Toast.makeText(view.getContext(), "All Fields are requierd",
Toast.LENGTH LONG).show();
                } else {
                    try {
                        DatabaseHandler db = new DatabaseHandler(view.getContext(
));
                        boolean flag = db.insertData(name, phone, email, address)
```

DeleteFragment.java

```
public class DeleteFragment extends Fragment {
   @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        return inflater.inflate(R.layout.fragment_delete, container, false);
    private EditText etDeleteId;
    private RecyclerView recyclerViewDelete;
    private Button btnDeleteFind,btnDeleteDelete;
    private String id;
   @Override
    public void onViewCreated(@NonNull View view, @Nullable Bundle savedInstanceS
tate) {
        super.onViewCreated(view, savedInstanceState);
        etDeleteId = view.findViewById(R.id.etDeleteId);
        recyclerViewDelete = view.findViewById(R.id.deleteRecyclerList);
        btnDeleteDelete = view.findViewById(R.id.deleteButton);
        btnDeleteFind = view.findViewById(R.id.deleteSearchButton);
        btnDeleteFind.setOnClickListener(new View.OnClickListener() {
```

```
@Override
            public void onClick(View view) {
                id = etDeleteId.getText().toString().trim();
                recyclerViewDelete.setVisibility(View.INVISIBLE);
                btnDeleteDelete.setVisibility(View.INVISIBLE);
                if(id.isEmpty()) {
                    Toast.makeText(getActivity(), "Enter valid input ", Toast.LENGT
H_SHORT).show();
                    recyclerViewDelete.setAdapter(null);
                    return;
                DatabaseHandler db = new DatabaseHandler(getActivity());
                Cursor cursor = db.getDataById(id);
                if(cursor.getCount() == 0) {
                    Toast.makeText(getActivity(),"No record Found",Toast.LENGTH_S
HORT).show();
                    recyclerViewDelete.setAdapter(null);
                } else {
                    ArrayList<ContactInformation> arrayList = new ArrayList<>();
                    while (cursor.moveToNext()) {
                        arrayList.add(new ContactInformation(Integer.parseInt(cur
sor.getString(0)), cursor.getString(1), cursor.getString(2), cursor.getString(3),
                                cursor.getString(4)));
                    recyclerViewDelete.setAdapter(new RecyclerViewAdapter(arrayLi
st,getActivity()));
                    recyclerViewDelete.setLayoutManager(new LinearLayoutManager(g
etActivity());
                    recyclerViewDelete.setVisibility(View.VISIBLE);
                    btnDeleteDelete.setVisibility(View.VISIBLE);
                etDeleteId.setText("");
            }
        });
        btnDeleteDelete.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                DatabaseHandler db = new DatabaseHandler(getActivity());
```

SearchFragment.java

```
public class SerachFragment extends Fragment {
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        return inflater.inflate(R.layout.fragment_serach, container, false);
    private EditText etQuery;
    private Button submitSearch;
    private RecyclerView listViewId;
    @Override
    public void onViewCreated(@NonNull View view, @Nullable Bundle savedInstanceS
tate) {
        super.onViewCreated(view, savedInstanceState);
        etQuery = view.findViewById(R.id.etQuery);
        submitSearch = view.findViewById(R.id.searchButton);
        listViewId = view.findViewById(R.id.listViewId);
        submitSearch.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String id = etQuery.getText().toString().trim();
```

```
if (id.isEmpty()) {
                    Toast.makeText(getActivity(), "Enter valid input ", Toast.LEN
GTH_SHORT).show();
                    listViewId.setAdapter(null);
                    return;
                }
                DatabaseHandler db = new DatabaseHandler(getActivity());
                Cursor cursor = db.getDataById(id);
                if (cursor.getCount() == 0) {
                    Toast.makeText(getActivity(), "No record Found", Toast.LENGTH
SHORT).show();
                    listViewId.setAdapter(null);
                } else {
                    ArrayList<ContactInformation> arrayList = new ArrayList<>();
                    while (cursor.moveToNext()) {
                        arrayList.add(new ContactInformation(Integer.parseInt(cur
sor.getString(0)), cursor.getString(1), cursor.getString(2), cursor.getString(3),
                                cursor.getString(4)));
                    listViewId.setAdapter(new RecyclerViewAdapter(arrayList, getA
ctivity()));
                    listViewId.setLayoutManager(new LinearLayoutManager(getActivi
ty()));
                etQuery.setText("");
            }
        });
```

UpdateFragment.java

```
private TextView tvId;
    private TextView tvUpdateIdShow, tvUpdateName, tvUpdatePhone, tvUpdateEmail,
tvUpdateAddress;
    @Override
    public void onViewCreated(@NonNull View view, @Nullable Bundle savedInstanceS
tate) {
        super.onViewCreated(view, savedInstanceState);
        etUpdateId = view.findViewById(R.id.etUpdateId);
        etUpdateName = view.findViewById(R.id.etUpdateName);
        etUpdatePhone = view.findViewById(R.id.etUpdatePhone);
        etUpdateEmail = view.findViewById(R.id.etUpdateEmail);
        etUpdateAddress = view.findViewById(R.id.etUpdateAddress);
        btnFind = view.findViewById(R.id.updateSearchButton);
        btnUpdate = view.findViewById(R.id.etUpdateButton);
        tvUpdateIdShow = view.findViewById(R.id.tvUpdateIdShow);
        tvId = view.findViewById(R.id.tvUpdateId);
        tvUpdateName = view.findViewById(R.id.tvUpdateName);
        tvUpdatePhone = view.findViewById(R.id.tvUpdatePhone);
        tvUpdateEmail = view.findViewById(R.id.tvUpdateEmail);
        tvUpdateAddress = view.findViewById(R.id.tvUpdateAddress);
        btnFind.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                makeInvisible();
                String id = etUpdateId.getText().toString().trim();
                if(id.isEmpty()) {
                    Toast.makeText(getActivity(),"Enter valid input ",Toast.LENGT
H SHORT).show();
                    return;
                DatabaseHandler db = new DatabaseHandler(getActivity());
                Cursor cursor = db.getDataById(id);
                if(cursor.getCount() == 0) {
                    Toast.makeText(getActivity(),"No record Found",Toast.LENGTH S
HORT).show();
```

```
} else {
                    makeVisible();
                    while (cursor.moveToNext()) {
                        tvId.setText(cursor.getString(0));
                        etUpdateName.setText(cursor.getString(1));
                        etUpdatePhone.setText(cursor.getString(2));
                        etUpdateEmail.setText(cursor.getString(3));
                        etUpdateAddress.setText(cursor.getString(4));
                etUpdateId.setText("");
            }
        });
        btnUpdate.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String id = tvId.getText().toString().trim();
                String name = etUpdateName.getText().toString().trim();
                String phone = etUpdatePhone.getText().toString().trim();
                String email = etUpdateEmail.getText().toString().trim();
                String address = etUpdateAddress.getText().toString().trim();
                if(name.isEmpty() || phone.isEmpty() || email.isEmpty() || addres
s.isEmpty()) {
                    Toast.makeText(getActivity(), "All fields Are requierd ", Toast
.LENGTH_SHORT).show();
                    return;
                DatabaseHandler db = new DatabaseHandler(getActivity());
                try {
                    db.updateData(Integer.parseInt(id), name, phone, email, addre
ss);
                    Toast.makeText(getActivity(), "Data Updated Successfully ", T
oast.LENGTH_SHORT).show();
                } catch (Exception e) {
                    Toast.makeText(getActivity(),e.getMessage(),Toast.LENGTH_SHOR
T).show();
                }
                makeInvisible();
```

```
});
private void makeInvisible() {
    etUpdateName.setVisibility(View.GONE);
    etUpdatePhone.setVisibility(View.GONE);
    etUpdateEmail.setVisibility(View.GONE);
    etUpdateAddress.setVisibility(View.GONE);
    btnUpdate.setVisibility(View.GONE);
    tvUpdateIdShow.setVisibility(View.GONE);
    tvId.setVisibility(View.GONE);
    tvUpdateName.setVisibility(View.GONE);
    tvUpdatePhone.setVisibility(View.GONE);
    tvUpdateEmail.setVisibility(View.GONE);
    tvUpdateAddress.setVisibility(View.GONE);
}
private void makeVisible() {
    etUpdateName.setVisibility(View.VISIBLE);
    etUpdatePhone.setVisibility(View.VISIBLE);
    etUpdateEmail.setVisibility(View.VISIBLE);
    etUpdateAddress.setVisibility(View.VISIBLE);
    btnUpdate.setVisibility(View.VISIBLE);
    tvUpdateIdShow.setVisibility(View.VISIBLE);
    tvId.setVisibility(View.VISIBLE);
    tvUpdateName.setVisibility(View.VISIBLE);
    tvUpdatePhone.setVisibility(View.VISIBLE);
    tvUpdateEmail.setVisibility(View.VISIBLE);
    tvUpdateAddress.setVisibility(View.VISIBLE);
```

ViewContactFragment.java

```
return inflater.inflate(R.layout.fragment_view_contact, container, false)
    }
    @Override
    public void onViewCreated(@NonNull View view, @Nullable Bundle savedInstanceS
tate) {
        super.onViewCreated(view, savedInstanceState);
        DatabaseHandler db = new DatabaseHandler(getActivity());
        Cursor cursor = db.getData();
        ArrayList<ContactInformation> arrayList = new ArrayList<>();
        RecyclerView recyclerView = view.findViewById(R.id.recyclerView);
        if(cursor.getCount() == 0) {
            Toast.makeText(getActivity(), "No Record Found", Toast.LENGTH_SHORT).sh
ow();
        } else {
            while (cursor.moveToNext()) {
                arrayList.add(new ContactInformation(Integer.parseInt(cursor.getS
tring(0)), cursor.getString(1), cursor.getString(2), cursor.getString(3),
                        cursor.getString(4)));
            }
        }
        RecyclerViewAdapter recyclerViewAdapter = new RecyclerViewAdapter(arrayLi
st,getActivity());
        recyclerView.setAdapter(recyclerViewAdapter);
        recyclerView.setLayoutManager(new LinearLayoutManager(getActivity()));
```

RecyclerViewAdapter.java

```
public class RecyclerViewAdapter extends RecyclerView.Adapter<RecyclerViewAdapter
.ViewHolder> {
    private ArrayList<ContactInformation> info;
    private Context mContext;

    public RecyclerViewAdapter(ArrayList<ContactInformation> info, Context mContext) {
        this.info = info;
    }
}
```

```
this.mContext = mContext;
   @NonNull
   @Override
   public ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType)
       View view = LayoutInflater.from(parent.getContext()).inflate(R.layout.lis
t layout, parent, false);
       return new ViewHolder(view);
   @Override
   public void onBindViewHolder(@NonNull ViewHolder holder, int position) {
       holder.idTv.setText("Id : " + info.get(position).getId());
       holder.nameTv.setText("Name: " + info.get(position).getName());
       holder.phoneTv.setText("Phone: " + info.get(position).getPhone());
       holder.emailTv.setText("Email: " + info.get(position).getEmail());
       holder.addressTv.setText("Address: " + info.get(position).getAddress());
   @Override
   public int getItemCount() {
       return info.size();
   public class ViewHolder extends RecyclerView.ViewHolder {
       TextView idTv, nameTv, phoneTv, emailTv, addressTv;
        LinearLayout parentLayout;
       public ViewHolder(@NonNull View itemView) {
            super(itemView);
            parentLayout = itemView.findViewById(R.id.parent layout);
            idTv = itemView.findViewById(R.id.idDb);
            nameTv = itemView.findViewById(R.id.nameTv);
            phoneTv = itemView.findViewById(R.id.phoneTv);
            emailTv = itemView.findViewById(R.id.emailTv);
            addressTv = itemView.findViewById(R.id.addressTv);
       }
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.drawerlayout.widget.DrawerLayout xmlns:android="http://schemas.android.</pre>
com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/draw layout"
    android:layout width="match parent"
    android:layout height="match parent"
    android:orientation="vertical"
    tools:openDrawer="start"
    tools:context=".MainActivity">
    <LinearLayout</pre>
        android:layout_width="match_parent"
        android:layout height="match parent"
        android:orientation="vertical">
        <FrameLayout</pre>
            android:id="@+id/fragment container"
            android:layout width="match parent"
            android:layout height="match parent" />
    </LinearLayout>
    <com.google.android.material.navigation.NavigationView</pre>
        android:id="@+id/nav_view"
        android:layout width="wrap content"
        android:layout_height="match_parent"
        android:layout gravity="start"
        app:headerLayout="@layout/nav header"
        app:menu="@menu/draw_menu" />
</androidx.drawerlayout.widget.DrawerLayout>
```

Fragment_contact_entry.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:id="@+id/name"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".fragments.ContactEntryFragment">
    <EditText</pre>
```

```
android:id="@+id/nameEt"
    android:layout width="0dp"
    android:layout_height="wrap_content"
    android:layout marginStart="50dp"
    android:layout_marginTop="150dp"
    android:layout marginEnd="50dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:gravity="center"
    android:hint="Enter name"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
<EditText
   android:id="@+id/phoneEt"
    android:layout width="0dp"
    android:layout height="wrap content"
    android:layout marginStart="50dp"
    android:layout marginTop="50dp"
    android:layout marginEnd="50dp"
    android:ems="10"
    android:inputType="phone"
    android:gravity="center"
    android:hint="Enter phone Number"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/nameEt" />
<EditText
    android:id="@+id/emailEt"
    android:layout width="0dp"
    android:layout height="wrap content"
    android:layout marginStart="50dp"
    android:layout marginTop="50dp"
    android:layout marginEnd="50dp"
    android:ems="10"
    android:inputType="textEmailAddress"
    android:gravity="center"
    android:hint="Enter Email"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/phoneEt" />
<EditText
```

```
android:id="@+id/addressEt"
       android:layout width="0dp"
       android:layout height="wrap content"
       android:layout marginStart="50dp"
       android:layout_marginTop="50dp"
       android:layout marginEnd="50dp"
       android:ems="10"
       android:inputType="textPostalAddress"
       android:gravity="center"
       android:hint="Enter Address"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintStart toStartOf="parent"
       app:layout_constraintTop_toBottomOf="@+id/emailEt" />
   <Button
       android:id="@+id/submitBtn"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout marginTop="70dp"
       android:text="Submit"
       app:layout constraintEnd toEndOf="parent"
       app:layout_constraintStart toStartOf="parent"
       app:layout_constraintTop_toBottomOf="@+id/addressEt" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Fragment_delete.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".fragments.DeleteFragment">
    <EditText
        android:id="@+id/etDeleteId"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginHorizontal="20dp"
        android:layout_marginTop="15dp"
        android:gravity="center"
        android:hint="Enter Id"
        android:inputType="number"
        android:textSize="20sp" />
```

```
<Button
        android:id="@+id/deleteSearchButton"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout gravity="center"
        android:text="Find" />
    <androidx.recyclerview.widget.RecyclerView</pre>
        android:layout_width="match_parent"
        android:layout height="wrap content"
        android:id="@+id/deleteRecyclerList"
        android:padding="4dp"
        android:visibility="gone"
        android:scrollbars="vertical"/>
   <Button
        android:id="@+id/deleteButton"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout gravity="center"
        android:visibility="gone"
        android:text="Delete" />
</LinearLayout>
```

Fragment_serach.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".fragments.SerachFragment">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Search By Id"
        android:textSize="24sp"
        android:layout marginTop="50dp"
        android:gravity="center"/>
    <EditText
        android:layout_width="match_parent"
```

```
android:layout height="wrap content"
        android:id="@+id/etOuery"
        android:hint="Enter Id"
        android:gravity="center"
        android:inputType="number"
        android:layout marginTop="15dp"
        android:layout marginHorizontal="20dp"
        android:visibility="visible"
        android:textSize="20sp"/>
    <Button
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Find"
        android:visibility="visible"
        android:layout gravity="center"
        android:id="@+id/searchButton"/>
    <androidx.recyclerview.widget.RecyclerView</pre>
        android:layout width="match parent"
        android:layout height="match parent"
        android:id="@+id/listViewId"
        android:padding="4dp"
        android:scrollbars="vertical"/>
</LinearLavout>
```

fragment_update.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout height="match parent"
    android:orientation="vertical"
    tools:context=".fragments.UpdateFragment">
    <EditText
        android:id="@+id/etUpdateId"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout marginHorizontal="20dp"
        android:layout_marginTop="15dp"
        android:gravity="center"
        android:hint="Enter Id"
        android:inputType="number"
```

```
android:textSize="20sp" />
<Button
    android:id="@+id/updateSearchButton"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout gravity="center"
    android:text="Find" />
<LinearLayout</pre>
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout_marginTop="10dp">
    <TextView
        android:id="@+id/tvUpdateIdShow"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout gravity="center"
        android:layout marginHorizontal="40dp"
        android:text="Id
        android:textSize="20sp"
        android:visibility="gone" />
    <TextView
        android:id="@+id/tvUpdateId"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout gravity="center"
        android:layout marginLeft="30dp"
        android:text="Id"
        android:textSize="20sp"
        android:visibility="gone" />
</LinearLayout>
<LinearLayout</pre>
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout_marginTop="10dp">
    <TextView
        android:id="@+id/tvUpdateName"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout gravity="center"
```

```
android:layout marginLeft="40dp"
        android:text="Name : "
        android:textSize="20sp"
        android:visibility="gone" />
    <EditText
        android:id="@+id/etUpdateName"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:layout marginLeft="20dp"
        android:gravity="center"
        android:inputType="textPersonName"
        android:visibility="gone" />
</LinearLayout>
<LinearLayout</pre>
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout marginTop="10dp">
    <TextView
        android:id="@+id/tvUpdatePhone"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout_gravity="center"
        android:layout marginLeft="40dp"
        android:text="Phone : "
        android:textSize="20sp"
        android:visibility="gone" />
    <EditText
        android:id="@+id/etUpdatePhone"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:layout marginLeft="20dp"
        android:gravity="center"
        android:inputType="phone"
        android:visibility="gone" />
</LinearLayout>
<LinearLayout</pre>
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout_marginTop="10dp">
```

```
android:id="@+id/tvUpdateEmail"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout gravity="center"
        android:layout marginLeft="40dp"
        android:text="Email : "
        android:textSize="20sp"
        android:visibility="gone" />
    <EditText
        android:id="@+id/etUpdateEmail"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:layout marginLeft="20dp"
        android:gravity="center"
        android:inputType="textEmailAddress"
        android:visibility="gone" />
</LinearLayout>
<LinearLayout</pre>
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout marginTop="10dp">
    <TextView
        android:id="@+id/tvUpdateAddress"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout gravity="center"
        android:layout marginLeft="40dp"
        android:text="Address : "
        android:textSize="20sp"
        android:visibility="gone" />
    <EditText
        android:id="@+id/etUpdateAddress"
        android:layout width="match parent"
        android:layout_height="wrap_content"
        android:layout marginLeft="20dp"
        android:gravity="center"
        android:inputType="textPostalAddress"
        android:visibility="gone" />
</LinearLayout>
```

<TextView

fragment_view_contact.xml











