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.OnNavigationItemSelectedListener {

    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(true);

        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.fragment\_container,new ContactEntryFragment()).commit();

                break;

            case R.id.viewEntries:

                getSupportFragmentManager().beginTransaction().replace(R.id.fragment\_container,new ViewContactFragment()).commit();

                break;

            case R.id.search:

                getSupportFragmentManager().beginTransaction().replace(R.id.fragment\_container,new SerachFragment()).commit();

                break;

            case R.id.updateEntry:

                getSupportFragmentManager().beginTransaction().replace(R.id.fragment\_container,new UpdateFragment()).commit();

                break;

            case R.id.deleteEntry:

                getSupportFragmentManager().beginTransaction().replace(R.id.fragment\_container,new DeleteFragment()).commit();

                break;

        }

        drawer.closeDrawer(GravityCompat.START);

        return true;

    }

}

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 AUTOINCREMENT, 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 address) {

        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, String 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 savedInstanceState) {

        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() || address.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);

                        if (flag) {

                            Toast.makeText(view.getContext(), "Successful", Toast.LENGTH\_SHORT).show();

                        } else {

                            Toast.makeText(view.getContext(), "Something Went Wrong!", Toast.LENGTH\_SHORT).show();

                        }

                        nameEt.setText("");

                        phoneEt.setText("");

                        emailEt.setText("");

                        addressEt.setText("");

                    } catch (Exception e) {

                    }

                }

            }

        });

    }

}

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 savedInstanceState) {

        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.LENGTH\_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\_SHORT).show();

                    recyclerViewDelete.setAdapter(null);

                } else {

                    ArrayList<ContactInformation> arrayList = new ArrayList<>();

                    while (cursor.moveToNext()) {

                        arrayList.add(new ContactInformation(Integer.parseInt(cursor.getString(0)), cursor.getString(1), cursor.getString(2), cursor.getString(3),

                                cursor.getString(4)));

                    }

                    recyclerViewDelete.setAdapter(new RecyclerViewAdapter(arrayList,getActivity()));

                    recyclerViewDelete.setLayoutManager(new LinearLayoutManager(getActivity()));

                    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());

                try {

                    db.deleteData(id);

                    Toast.makeText(getActivity(),"Deleted Successful ",Toast.LENGTH\_SHORT).show();

                } catch (Exception e) {

                    Toast.makeText(getActivity(),e.getMessage(),Toast.LENGTH\_SHORT).show();

                }

                recyclerViewDelete.setVisibility(View.INVISIBLE);

                btnDeleteDelete.setVisibility(View.INVISIBLE);

            }

        });

    }

}

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 savedInstanceState) {

        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.LENGTH\_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(cursor.getString(0)), cursor.getString(1), cursor.getString(2), cursor.getString(3),

                                cursor.getString(4)));

                    }

                    listViewId.setAdapter(new RecyclerViewAdapter(arrayList, getActivity()));

                    listViewId.setLayoutManager(new LinearLayoutManager(getActivity()));

                }

                etQuery.setText("");

            }

        });

    }

}

UpdateFragment.java

public class UpdateFragment extends Fragment {

    @Override

    public View onCreateView(LayoutInflater inflater, ViewGroup container,

                             Bundle savedInstanceState) {

        // Inflate the layout for this fragment

        return inflater.inflate(R.layout.fragment\_update, container, false);

    }

    private EditText etUpdateId, etUpdateName,etUpdatePhone,etUpdateEmail, etUpdateAddress;

    private Button btnFind,btnUpdate;

    private TextView tvId;

    private TextView tvUpdateIdShow, tvUpdateName, tvUpdatePhone, tvUpdateEmail, tvUpdateAddress;

    @Override

    public void onViewCreated(@NonNull View view, @Nullable Bundle savedInstanceState) {

        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.LENGTH\_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\_SHORT).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() || address.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, address);

                    Toast.makeText(getActivity(), "Data Updated Successfully ", Toast.LENGTH\_SHORT).show();

                } catch (Exception e) {

                    Toast.makeText(getActivity(),e.getMessage(),Toast.LENGTH\_SHORT).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

public class ViewContactFragment extends Fragment {

    @Override

    public View onCreateView(LayoutInflater inflater, ViewGroup container,

                             Bundle savedInstanceState) {

        // Inflate the layout for this fragment

        return inflater.inflate(R.layout.fragment\_view\_contact, container, false);

    }

    @Override

    public void onViewCreated(@NonNull View view, @Nullable Bundle savedInstanceState) {

        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).show();

        } else {

            while (cursor.moveToNext()) {

                arrayList.add(new ContactInformation(Integer.parseInt(cursor.getString(0)), cursor.getString(1), cursor.getString(2), cursor.getString(3),

                        cursor.getString(4)));

            }

        }

        RecyclerViewAdapter recyclerViewAdapter = new RecyclerViewAdapter(arrayList,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.list\_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.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

        android:layout\_width="match\_parent"

        android:layout\_height="match\_parent"

        android:orientation="vertical">

        <FrameLayout

            android:id="@+id/fragment\_container"

            android:layout\_width="match\_parent"

            android:layout\_height="match\_parent" />

    </LinearLayout>

    <com.google.android.material.navigation.NavigationView

        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

        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"

    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

        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"

    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/etQuery"

        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

        android:layout\_width="match\_parent"

        android:layout\_height="match\_parent"

        android:id="@+id/listViewId"

        android:padding="4dp"

        android:scrollbars="vertical"/>

</LinearLayout>

fragment\_update.xml

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

    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

        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

        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

        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

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:layout\_marginTop="10dp">

        <TextView

            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

        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>

    <Button

        android:id="@+id/etUpdateButton"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_gravity="center"

        android:layout\_marginTop="10dp"

        android:text="Update"

        android:visibility="gone" />

</LinearLayout>

fragment\_view\_contact.xml

<?xml version="1.0" encoding="utf-8"?>

<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:tools="http://schemas.android.com/tools"

    android:layout\_width="match\_parent"

    android:layout\_height="match\_parent"

    tools:context=".fragments.ViewContactFragment">

    <androidx.recyclerview.widget.RecyclerView

        android:layout\_width="match\_parent"

        android:layout\_height="match\_parent"

        android:id="@+id/recyclerView"

        android:padding="4dp"

        android:scrollbars="vertical"/>

</FrameLayout>

   