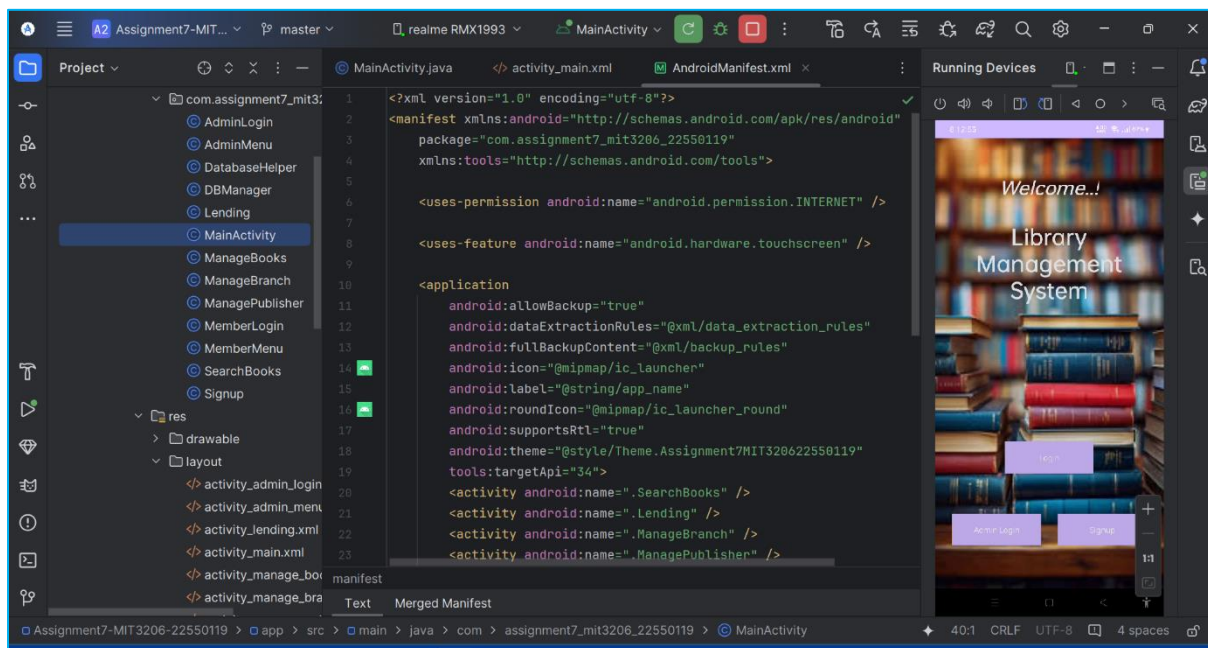


- ❖ **Course Module : MIT3206 - Mobile Computing**
- ❖ **Course Lecturer : Senior Lecturer Gihan P. Seneviratne Sir**
  
- ❖ **Assignment 7 : Android App which is Supporting Basic Library Management Functions**
  
- ❖ **Assignment 7 Google Drive Uploaded Link :**  
[https://drive.google.com/drive/folders/1Shulu3PKGc3FZvVsWiPECIZ\\_DFNzlpTS?usp=sharing](https://drive.google.com/drive/folders/1Shulu3PKGc3FZvVsWiPECIZ_DFNzlpTS?usp=sharing)
  
- ❖ **GitHub Private Repository Link :**  
<https://github.com/NavinduMadusanka/Assignment7-MIT3206-22550119.git>
  
- ❖ **Student Name : K.N.M. Dias**
- ❖ **Student Index No : 22550119**
- ❖ **Student Registration No : 2022/MIT/011**



**Assignment7-MIT3206-22550119**

## Assignment 7 : Android App which is Supporting Basic Library Management

### Functions

Below is a summary of what I have learned and focused on in this assignment.

#### 1. Android Components

- **API level**

Android Version	API Level	Version Name
Android 7.0	24	Nougat

- **Newly learned key points in this assignment**

- Develop codes to support CRUD functions
- Create / Maintain data in the SQLite database
- How to develop complete small android application
- Create user interface
- Working with DatabaseHelper & Create Database & Table

Component	Innovative Android Version	Minimum Supported Version	Impact on Android	Usability
SQL Lite	Android 1.0	Android 1.0 (API Level 1)	SQLite offers a lightweight database solution, making it easier to manage data locally on the device.	Suitable for apps needing structured data storage with SQL capabilities.

## 2. Functionality of the mobile application

The following steps were taken to create this application.

1. Analyze the requirements
2. Develop code to set up the tables
3. Develop codes to support CRUD functions
4. Integrate the codes to respective Buttons
5. Make attractive user interface
6. Test with real data

Following the above steps, the following modules were created.

This application consists of the main modules.

- Members
- Books
- Publisher
- Authors
- Lending
- Branch

In this module the CRUD functions are functional & maintain - Book details, Member details, Publisher details, Author details, Lending details & Branch details.

- **Admin Login User Name - “admin”**  
**Admin Login Password - “admin123”**
- **Member Login User Name - “navindu”**  
**Member Login Password - “navindu”**
- **tools:targetApi="34" in AndroidManifest.xml**
- **menu.xml in res**
- **ic\_action\_search\_foreground.xml in drawable**

- ic\_launcher\_background.xml in values & list\_item.xml in layout

### 3. Running the Application on my android mobile device

I was running the android app for testing in my android mobile device.

My android mobile device is Realme X2 RMX1993.

Below is a Screenshots of my android mobile device (Realme X2 RMX1993) while the app was running.

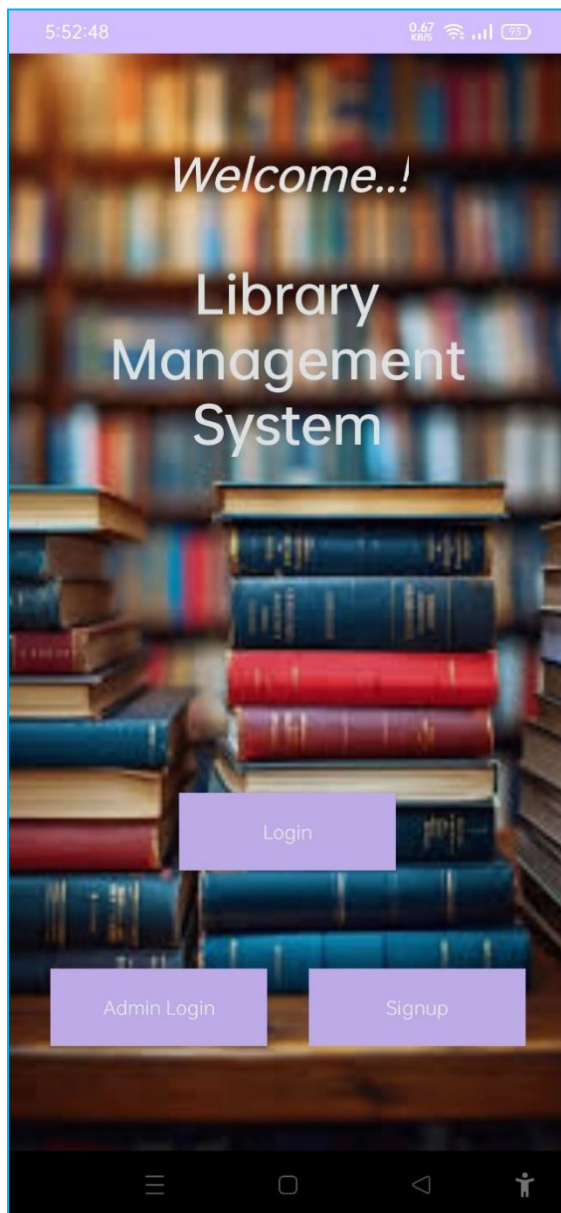


Photo 1 : Assignment7-MIT3206-22550119 in Realme X2 RMX1993

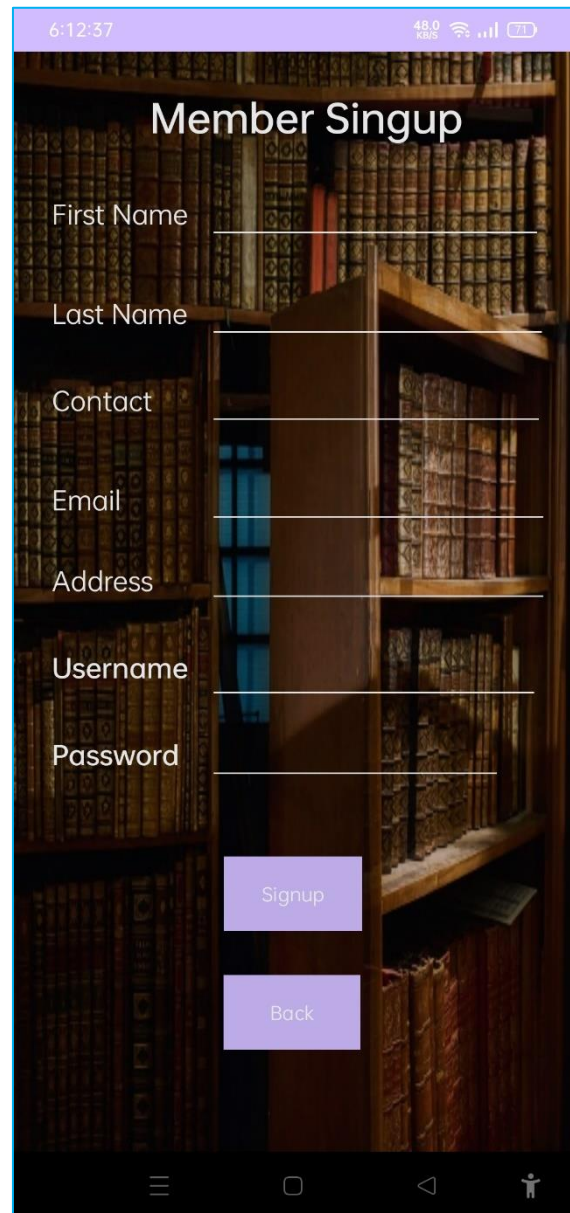
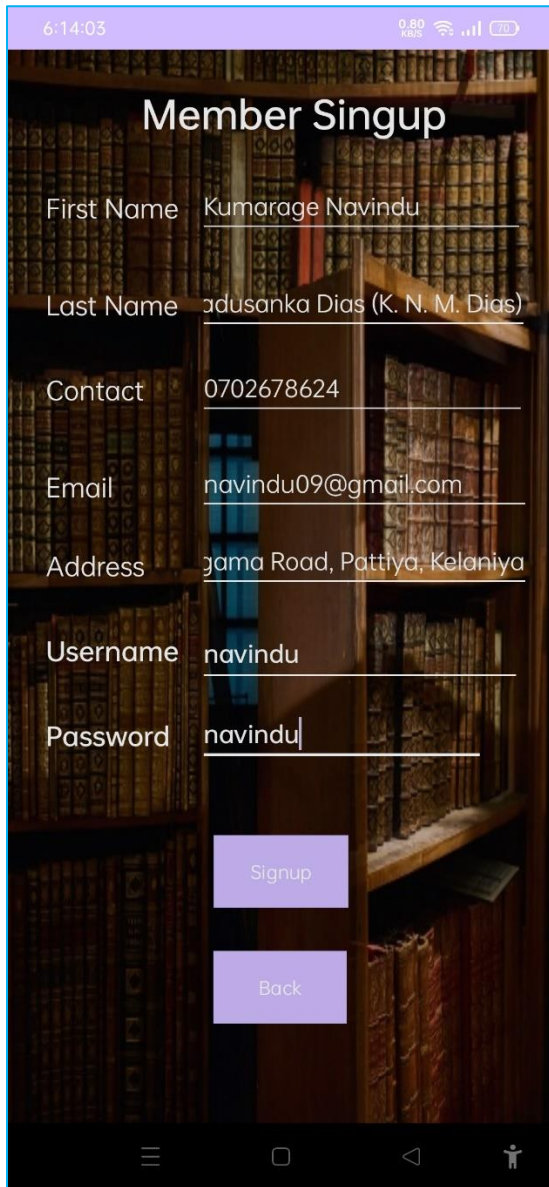


Photo 2 : Assignment7-MIT3206-22550119 in Realme X2 RMX1993



6:14:03 0.80 KB/S 70%

## Member Singup

First Name

Last Name

Contact

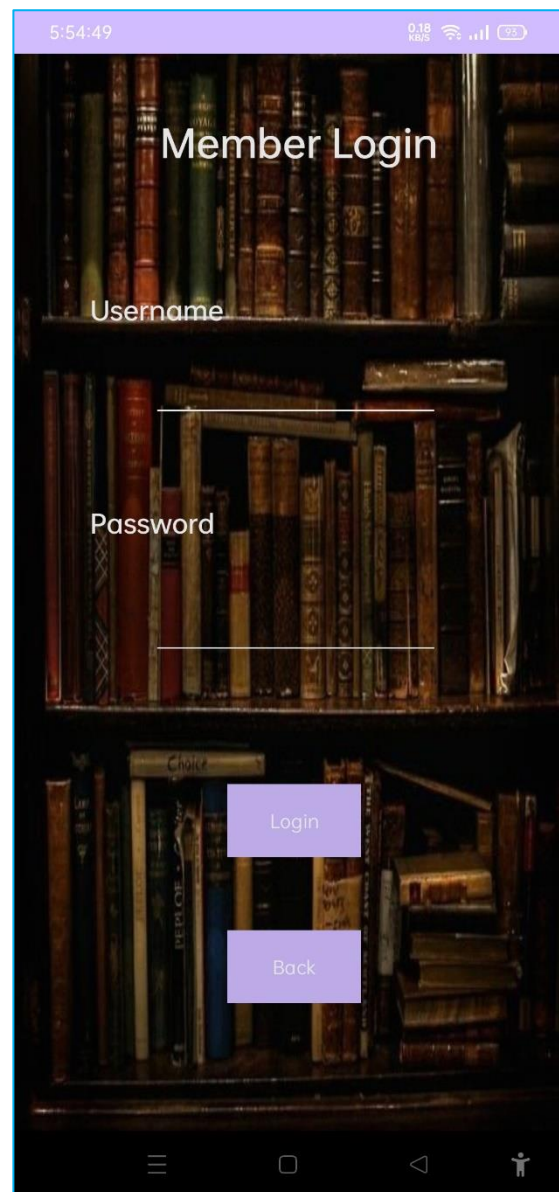
Email

Address

Username

Password

Photo 3 : Assignment7-MIT3206-22550119 in  
Realme X2 RMX1993



5:54:49 0.18 KB/S 95%

## Member Login

Username

Password

Photo 4 : Assignment7-MIT3206-22550119 in  
Realme X2 RMX1993



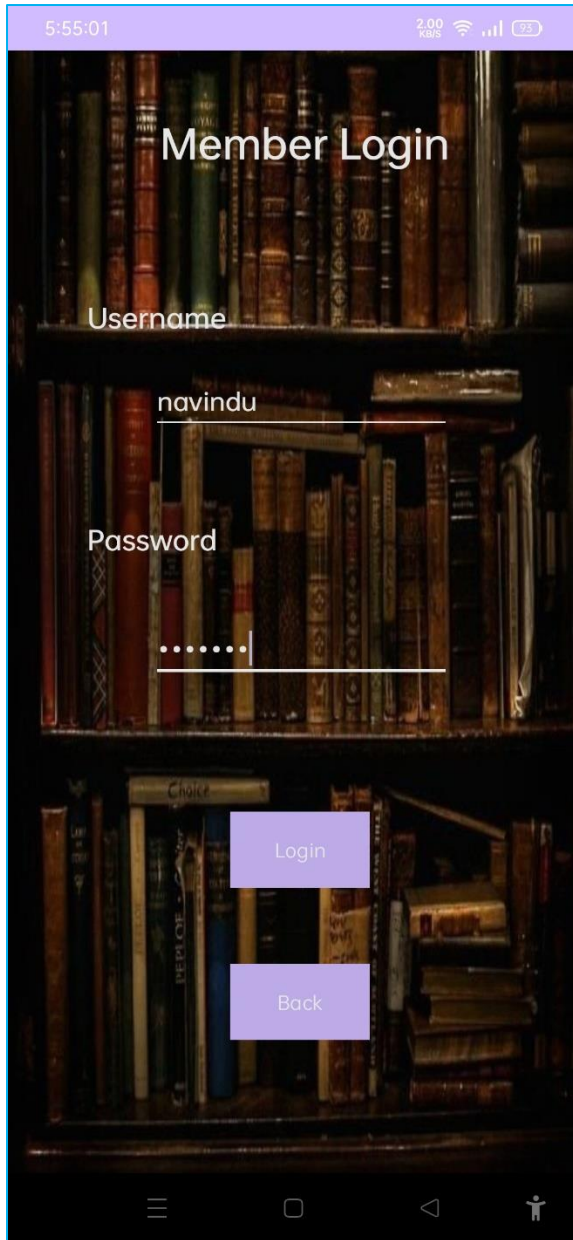


Photo 5 : Assignment7-MIT3206-22550119 in  
Realme X2 RMX1993

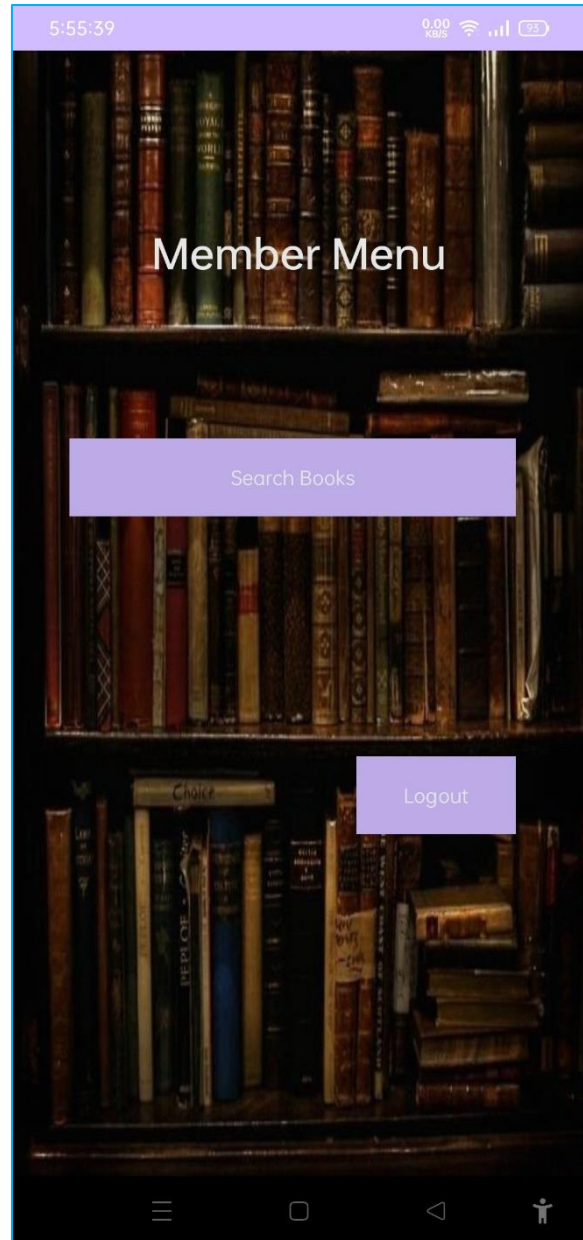
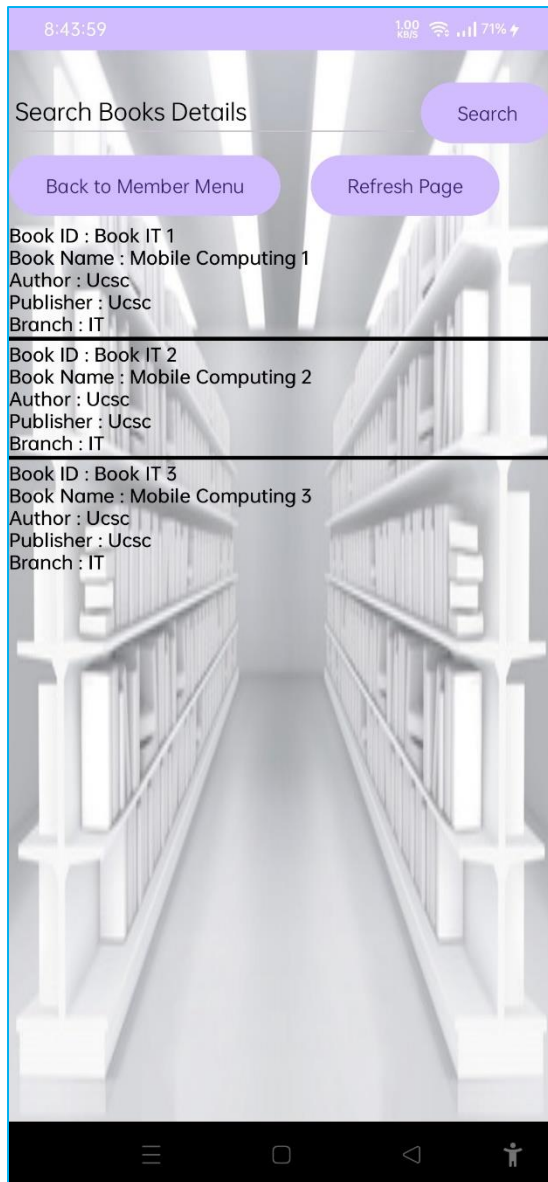
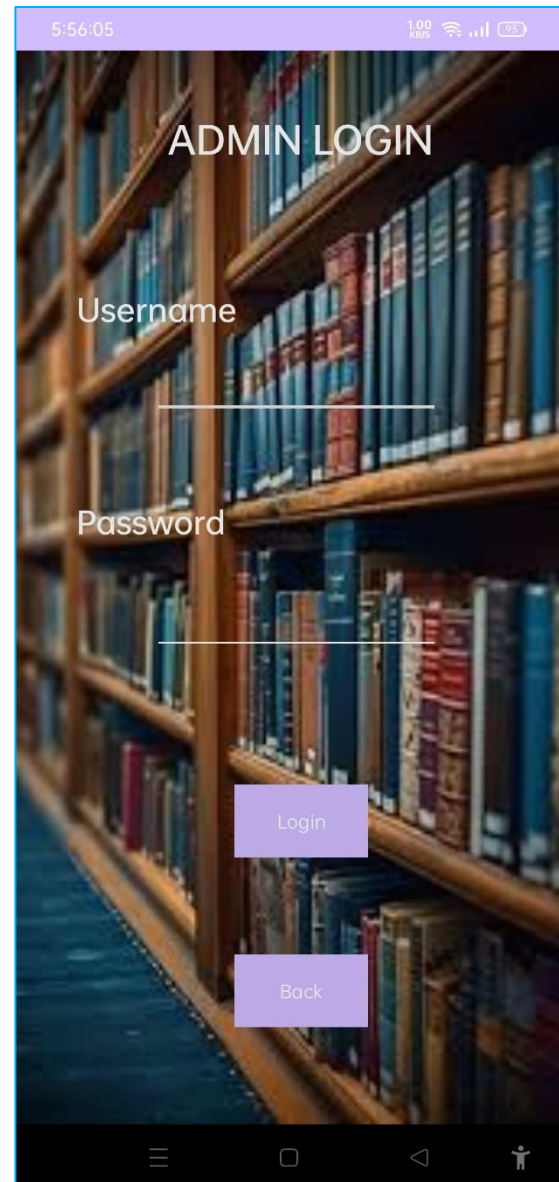


Photo 6 : Assignment7-MIT3206-22550119 in  
Realme X2 RMX1993



**Photo 7 : Assignment7-MIT3206-22550119 in  
Realme X2 RMX1993**



**Photo 8 : Assignment7-MIT3206-22550119 in  
Realme X2 RMX1993**

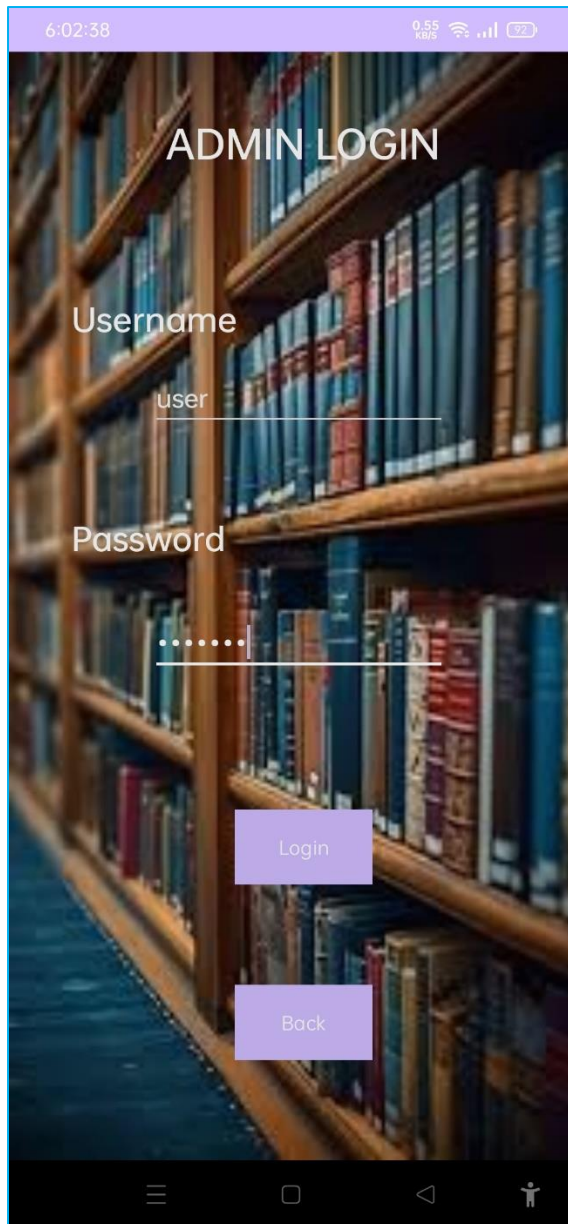


Photo 9 : Assignment7-MIT3206-22550119 in  
Realme X2 RMX1993



Photo 10 : Assignment7-MIT3206-22550119 in  
Realme X2 RMX1993



5:56:32 0.00 Kbps 93%

## Manage Books

Book ID

Book Name

Publisher

Author

Branch

Add

Clear

Back

Photo 11 : Assignment7-MIT3206-22550119 in  
Realme X2 RMX1993

5:57:11 0.03 Kbps 93%

## Manage Books

Book ID

Book Name

Publisher

Author

Branch

Add

Clear

Back

Photo 12 : Assignment7-MIT3206-22550119 in  
Realme X2 RMX1993

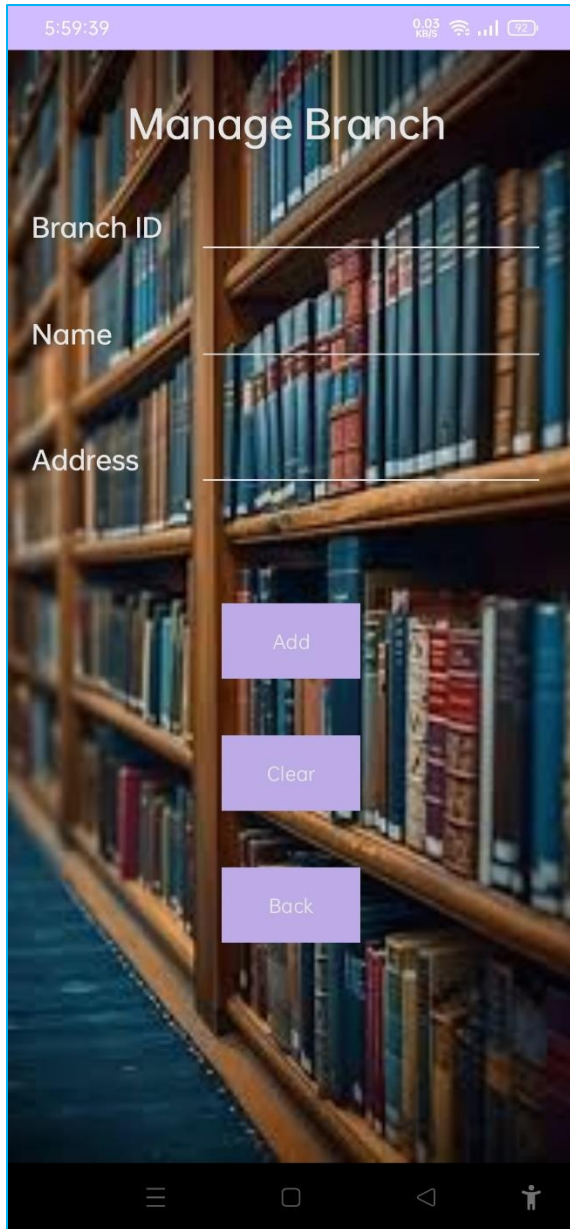


Photo 13 : Assignment7-MIT3206-22550119 in  
Realme X2 RMX1993



Photo 14 : Assignment7-MIT3206-22550119 in  
Realme X2 RMX1993





5:59:39 0.03 Kbps

## Manage Branch

Branch ID

Name


Address

Add

Clear

Back

Photo 15 : Assignment7-MIT3206-22550119 in  
Realme X2 RMX1993



6:00:06 0.06 Kbps

## Manage Branch

Branch ID

Name

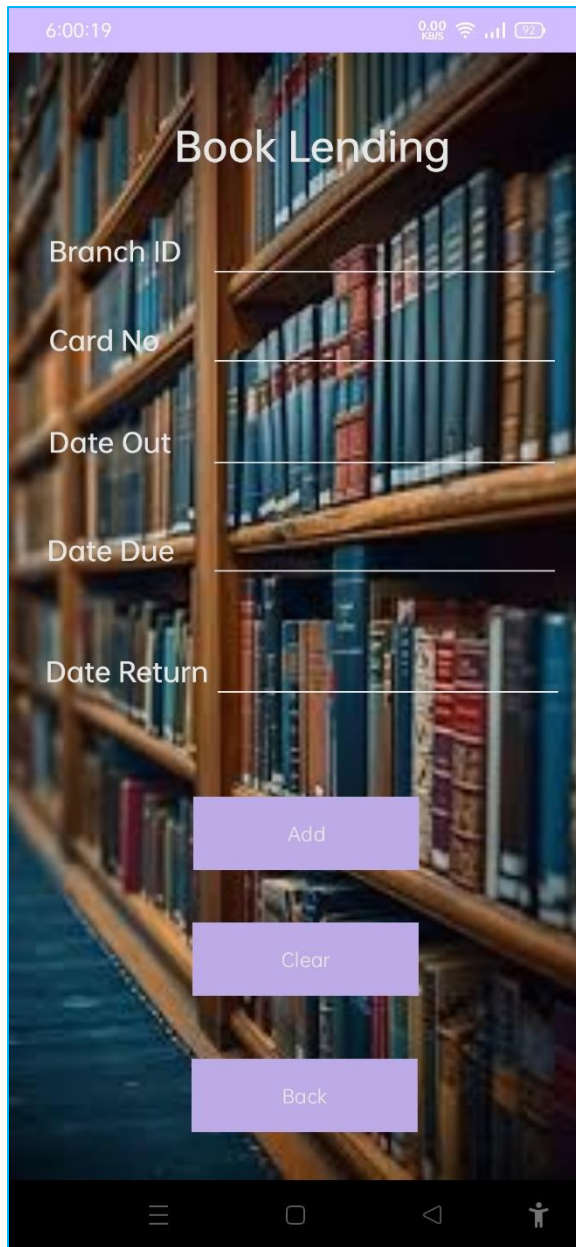
Address

Add

Clear

Back

Photo 16 : Assignment7-MIT3206-22550119 in  
Realme X2 RMX1993



Book Lending

Branch ID

Card No

Date Out

Date Due

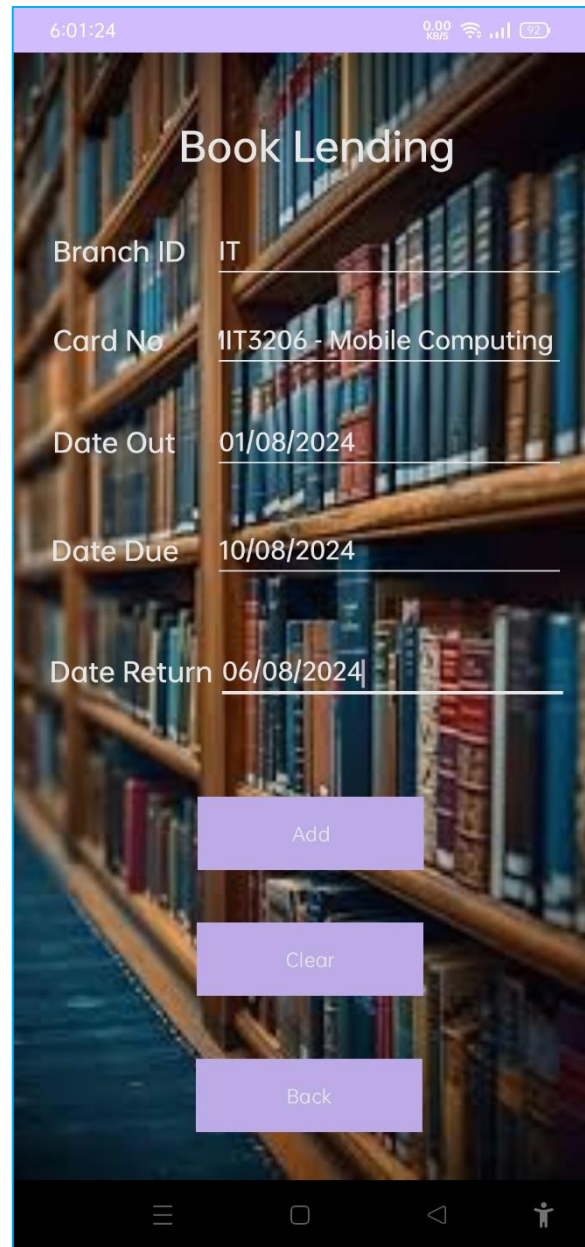
Date Return

Add

Clear

Back

Photo 17 : Assignment7-MIT3206-22550119 in Realme X2 RMX1993



Book Lending

Branch ID IT

Card No IIT3206 - Mobile Computing

Date Out 01/08/2024

Date Due 10/08/2024

Date Return 06/08/2024

Add

Clear

Back

Photo 18 : Assignment7-MIT3206-22550119 in Realme X2 RMX1993



**SQLite Viewer**  
view sqlite file online

Drop file here to load content or click on this box to open file dialog.

Book (3 rows) Export

`SELECT * FROM 'Book' LIMIT 0,30` Execute

BookID	BookName	BookPublisher	BookAuthor	Branch
Book IT 1	Mobile Computing 1	Ucsc	Ucsc	IT
Book IT 2	Mobile Computing 2	Ucsc	Ucsc	IT
Book IT 3	Mobile Computing 3	Ucsc	Ucsc	IT

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Photo 18 : Assignment7-MIT3206-22550119-DatabaseBook in Realme X2 RMX1993

**SQLite Viewer**  
view sqlite file online

Drop file here to load content or click on this box to open file dialog.

BookLoan (1 rows) Export

`SELECT * FROM 'BookLoan' LIMIT 0,30` Execute

AccessNo	BranchID	CardNo	DateOut	DateDue	DateReturned
1	IT	MIT3206 - Mobile Computing	01/08/2024	10/08/2024	06/08/2024

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Photo 19 : Assignment7-MIT3206-22550119-DatabaseBookLoan in Realme X2 RMX1993

**SQLite Viewer**  
view sqlite file online

Drop file here to load content or click on this box to open file dialog.

Branch (1 rows) Export

`SELECT * FROM 'Branch' LIMIT 0,30` Execute

BranchID	BranchName	BranchAddress
IT	MIT3206	Colombo 7

1 / 1

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Photo 20 : Assignment7-MIT3206-22550119-DatabaseBranch in Realme X2 RMX1993

**SQLite Viewer**  
view sqlite file online

Drop file here to load content or click on this box to open file dialog.

Member (1 rows) Export

`SELECT * FROM 'Member' LIMIT 0,30` Execute

CardNo	FirstName	LastName	Contact	Email	Address	UserName	Password
1	Kumarage Navindu	Madusanka Dias (K. N. M. ...	0702678624	navindu09@gmail.com	24/1, Biyagama Road, Patti...	navindu	navindu

1 / 1

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Photo 21 : Assignment7-MIT3206-22550119-DatabaseMember in Realme X2 RMX1993

**SQLite Viewer**  
view sqlite file online

Drop file here to load content or click on this box to open file dialog.

Publisher (1 rows) Export

`SELECT * FROM 'Publisher' LIMIT 0,30` Execute

Name	Address	Phone
Ucsc	Colombo 7	0115234678

1 / 1

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Photo 22 : Assignment7-MIT3206-22550119-DatabasePublisher in Realme X2 RMX1993

#### 4. Main Coding files

- **MainActivity.java**

```
package com.assignment7_mit3206_22550119;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    private Button button;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        button = findViewById(R.id.btnregister);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Signup();
            }
        });

        button = findViewById(R.id.btnadminlogin);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                AdminLogin();
            }
        });

        button = findViewById(R.id.btnmemlogin);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                MemberLogin();
            }
        });
    }
}
```

```
public void Signup(){
    Intent intent = new Intent(this, Signup.class);
    startActivity(intent);
}

public void MemberLogin(){
    Intent intent = new Intent(this, MemberLogin.class);
    startActivity(intent);
}

public void AdminLogin(){
    Intent intent = new Intent(this, AdminLogin.class);
    startActivity(intent);
}

public void MemberMenu(){
    Intent intent = new Intent(this, MemberMenu.class);
    startActivity(intent);
}

public void AdminMenu(){
    Intent intent = new Intent(this, AdminMenu.class);
    startActivity(intent);
}

public void DatabaseHelper() {
    Intent intent = new Intent(this, DatabaseHelper.class);
    startActivity(intent);
}

public void DBManager() {
    Intent intent = new Intent(this, DBManager.class);
    startActivity(intent);
}

public void Lending(){
    Intent intent = new Intent(this, Lending.class);
    startActivity(intent);
}
}
```



- AdminLogin.java

```
package com.assignment7_mit3206_22550119;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class AdminLogin extends AppCompatActivity {

    private Button button;
    EditText UserName, Password;
    Button login;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_admin_login);

        button = findViewById(R.id.btnback1);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                MainActivity();
            }
        });

        UserName = findViewById(R.id.txtUserName1);
        Password = findViewById(R.id.txtpass1);
        login = findViewById(R.id.login1);

        login.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if (UserName.getText().toString().isEmpty() ||
                Password.getText().toString().isEmpty()) {

                    Toast.makeText(getApplicationContext(), "Fields can't be Null",
                    Toast.LENGTH_SHORT).show();
                }
                else {
                    if (UserName.getText().toString().equals("user") &&
```

```
        Password.getText().toString().equals("user123")) {
            Toast.makeText(getApplicationContext(), "Successfully Logged as Admin",
Toast.LENGTH_SHORT).show();
            Intent libAdmin = new Intent(getApplicationContext(), AdminMenu.class);
            startActivity(libAdmin);
        }
        else {
            Toast.makeText(getApplicationContext(), "Invalid Login",
Toast.LENGTH_SHORT).show();
        }
    }
}
});
}

public void MainActivity(){
    Intent intent = new Intent(this, MainActivity.class);
    startActivity(intent);
}

public void DatabaseHelper() {
    Intent intent = new Intent(this, DatabaseHelper.class);
    startActivity(intent);
}

public void DBManager() {
    Intent intent = new Intent(this, DBManager.class);
    startActivity(intent);
}

public void MemberMenu(){
    Intent intent = new Intent(this, MemberMenu.class);
    startActivity(intent);
}

public void Lending(){
    Intent intent = new Intent(this, Lending.class);
    startActivity(intent);
}
}
```

- AdminMenu.java

```
package com.assignment7_mit3206_22550119;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

import androidx.appcompat.app.AppCompatActivity;

public class AdminMenu extends AppCompatActivity {

    private Button logoutBtn, addingBtn, managePubBtn, branchBtn, lendingBtn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_admin_menu);

        logoutBtn = findViewById(R.id.btnlogout);
        logoutBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                MainActivity();
            }
        });

        addingBtn = findViewById(R.id.btnaddingB);
        addingBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                ManageBooks();
            }
        });

        managePubBtn = findViewById(R.id.btnmanagepub);
        managePubBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                ManagePublisher();
            }
        });

        branchBtn = findViewById(R.id.btnbranch);
        branchBtn.setOnClickListener(new View.OnClickListener() {
            @Override
```

```
        public void onClick(View v) {
            ManageBranch();
        }
    });

    lendingBtn = findViewById(R.id.btnlending);
    lendingBtn.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Lending();
        }
    });
}

public void ManageBooks() {
    Intent intent = new Intent(this, ManageBooks.class);
    startActivity(intent);
}

public void ManagePublisher() {
    Intent intent = new Intent(this, ManagePublisher.class);
    startActivity(intent);
}

public void ManageBranch() {
    Intent intent = new Intent(this, ManageBranch.class);
    startActivity(intent);
}

public void Lending() {
    Intent intent = new Intent(this, Lending.class);
    startActivity(intent);
}

public void MainActivity() {
    Intent intent = new Intent(this, MainActivity.class);
    startActivity(intent);
}

public void DatabaseHelper() {
    Intent intent = new Intent(this, DatabaseHelper.class);
    startActivity(intent);
}

public void DBManager() {
    Intent intent = new Intent(this, DBManager.class);
    startActivity(intent);
}
```



```

    }

    public void MemberMenu() {
        Intent intent = new Intent(this, MemberMenu.class);
        startActivity(intent);
    }
}

```

- **DatabaseHelper.java**

```

package com.assignment7_mit3206_22550119;

import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.util.Log;

import androidx.annotation.Nullable;

public class DatabaseHelper extends SQLiteOpenHelper{

    public static final String DATABASE_NAME="librarySystem";

    public static final String TABLE_NAME="Member";
    //public static final String COL = "CardNo";
    //public static final String COL_1="FirstName";
    //public static final String COL_2="LastName";
    //public static final String COL_3="Contact";
    //public static final String COL_4="Email";
    //public static final String COL_5="Address";
    //public static final String COL_6="UserName";
    //public static final String COL_7="Password";

    public static final String TABLE_NAME1="Book";
    public static final String coloum1="BookID";
    public static final String coloum2="BookName";
    public static final String coloum3="BookPublisher";
    public static final String coloum4="BookAuthor";
    public static final String coloum5="Branch";

    public static final String TABLE_NAME2="Publisher";
    public static final String COL1= "Name";
    public static final String COL2="Address";
    public static final String COL3="Phone";

```

```

public static final String TABLE_NAME3="Branch";
public static final String coloumm1="BranchID";
public static final String coloumm2="BranchName";
public static final String coloumm3="BranchAddress";

public static final String TABLE_NAME4="BookLoan";

//private static final String CREATE_TABLE = "create table " + TABLE_NAME + "("
+COL+"INTEGER,"+ COL_1 + " TEXT,"+
//COL_2 + " TEXT,"+ COL_3 + " TEXT,"+ COL_4 + " TEXT,"+ COL_5 + " TEXT,"+ COL_6 + "
TEXT,"+ COL_7 + " TEXT);";

private static final String CREATE_TABLE1 = "create table " + TABLE_NAME1 + "(" +
coloum1 + " TEXT,"+ coloum2 + " TEXT,"+
coloum3 + " TEXT,"+coloum4+" TEXT,"+coloum5+" TEXT);";

private static final String CREATE_TABLE2 = "create table " + TABLE_NAME2 + "(" + COL1 +
" TEXT,"+ COL2 + " TEXT,"+
COL3 + " TEXT);";

private static final String CREATE_TABLE3 = "create table " + TABLE_NAME3 + "(" +
coloumm1 + " TEXT,"+ coloumm2 + " TEXT,"+
coloumm3 + " TEXT);";

public DatabaseHelper (@Nullable Context context){
    super (context, DATABASE_NAME,null,1);
    Log.e("first","OpenDatabase");
}

@Override
public void onCreate(SQLiteDatabase db) {
    Log.e("Test2","OnCreate Table");
    //db.execSQL(CREATE_TABLE);
    db.execSQL("CREATE TABLE "
        + TABLE_NAME
        + "(CardNo INTEGER PRIMARY KEY AUTOINCREMENT, FirstName VARCHAR(50),
        LastName VARCHAR(50), " +
        "Contact VARCHAR(50), Email VARCHAR, Address VARCHAR, UserName VARCHAR,
        Password VARCHAR)");

    db.execSQL(CREATE_TABLE1);
    //db.execSQL("CREATE TABLE "
    //+ TABLE_NAME1
    //+ "(BookID VARCHAR(50) PRIMARY KEY, BookName VARCHAR(50), BookPublisher
    VARCHAR(50), " +
    //"BookAuthor VARCHAR(50))");
    db.execSQL(CREATE_TABLE2);

```

```

db.execSQL(CREATE_TABLE3);

db.execSQL("CREATE TABLE "
    + TABLE_NAME4
    + "(AccessNo INTEGER PRIMARY KEY AUTOINCREMENT, BranchID VARCHAR(50),
CardNo VARCHAR(50), " +
    "DateOut VARCHAR(50), DateDue VARCHAR(50), DateReturned VARCHAR(50))");
}

@Override
public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
    db.execSQL(" DROP TABLE IF EXISTS " + TABLE_NAME);
    db.execSQL(" DROP TABLE IF EXISTS " + TABLE_NAME1);
    db.execSQL(" DROP TABLE IF EXISTS " + TABLE_NAME2);
    db.execSQL(" DROP TABLE IF EXISTS " + TABLE_NAME3);
    db.execSQL(" DROP TABLE IF EXISTS " + TABLE_NAME4);
    onCreate(db);
}

public Cursor searchUsers(String text){
    SQLiteDatabase db = this.getReadableDatabase();
    String query = "Select * from "+TABLE_NAME1+" WHERE "+coloum2+ "OR"+coloum4+"
Like '@"+text+"@"';
    Cursor cursor = db.rawQuery(query,null);
    return cursor;
}

public Cursor viewData(){
    SQLiteDatabase db = this.getReadableDatabase();
    String query = "Select * from "+TABLE_NAME1;
    Cursor cursor = db.rawQuery(query, null);
    return cursor;
}

//search from query
public Cursor searchUsers1(String text){
    SQLiteDatabase db = this.getReadableDatabase();
    String query = "Select * from "+TABLE_NAME1+" WHERE "+coloum2+ "OR"+coloum4+"
Like '@"+text+"@"';
    Cursor cursor = db.rawQuery(query, null);
    return cursor;
}
}

```

- DBManager.java

```
package com.assignment7_mit3206_22550119;

import android.content.Context;
import android.database.Cursor;
import android.database.SQLException;
import android.database.sqlite.SQLiteDatabase;

public class DBManager {

    private DatabaseHelper dbHelper;
    private SQLiteDatabase database;
    private Context context;

    public DBManager(Context c) {
        context = c;
    }

    public DBManager open() throws SQLException {
        dbHelper = new DatabaseHelper(context);
        database = dbHelper.getWritableDatabase();
        return this;
    }

    public void close() {
        dbHelper.close();
    }

    public void insert(String query) {
        try {
            database.execSQL(query);
        } catch (Exception e) {
            System.out.println("ExecuteQuery error : " + e);
        }
    }

    public Cursor Select(String query) {
        Cursor cursor = database.rawQuery(query, null);
        return cursor;
    }
}
```



- **Lending.java**

```
package com.assignment7_mit3206_22550119;

import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class Lending extends AppCompatActivity {

    Button button;
    private DBManager dbManager;

    EditText editText1, editText2, editText3, editText4, editText5;
    Button addLendingBook;
    Button clearLendingBook;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_lending);

        button = findViewById(R.id.btnback6);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                AdminMenu();
            }
        });

        dbManager = new DBManager(this);

        dbManager.open();

        addLendingBook = findViewById(R.id.btnAddLend);
        clearLendingBook = findViewById(R.id.btnDeleteLend);
        editText1 = findViewById(R.id.txtBranchIDBook);
        editText2 = findViewById(R.id.txtCardNoBook);
        editText3 = findViewById(R.id.txtDateout);
        editText4 = findViewById(R.id.txtDaeDue);
        editText5 = findViewById(R.id.txtDateReturn);
```

```

addLendingBook.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        boolean valid = true;

        if (editText1.getText().toString().isEmpty() ||
            editText2.getText().toString().isEmpty() ||
            editText3.getText().toString().isEmpty() ||
            editText4.getText().toString().isEmpty() ||
            editText5.getText().toString().isEmpty()) {

            Toast.makeText(getApplicationContext(), "Fields can't be Null",
                Toast.LENGTH_SHORT).show();
            valid = false;
        }
        if (valid) {

            String BranchID = editText1.getText().toString();
            String CardNo = editText2.getText().toString();
            String DateOut = editText3.getText().toString();
            String DateDue = editText4.getText().toString();
            String DateReturned = editText5.getText().toString();

            dbManager.insert("insert into BookLoan values(?, " + BranchID + ", " + CardNo +
                ", " +
                "" + DateOut + ", " + DateDue + ", " + DateReturned + ")");
            Toast.makeText(getApplicationContext(), "Successfully Inserted",
                Toast.LENGTH_SHORT).show();
            Log.e("first", "Inserted");
            dbManager.close();
        } else {
            Toast.makeText(getApplicationContext(), "Error in Branch Adding",
                Toast.LENGTH_SHORT).show();
        }

    }
});

public void AdminMenu() {
    Intent intent = new Intent(this, AdminMenu.class);
    startActivity(intent);
}

public void MainActivity() {

```

```
        Intent intent = new Intent(this, MainActivity.class);
        startActivity(intent);
    }

    public void DatabaseHelper() {
        Intent intent = new Intent(this, DatabaseHelper.class);
        startActivity(intent);
    }

    public void DBManager() {
        Intent intent = new Intent(this, DBManager.class);
        startActivity(intent);
    }

    public void MemberMenu(){
        Intent intent = new Intent(this, MemberMenu.class);
        startActivity(intent);
    }
}
```

- **ManageBooks.java**

```
package com.assignment7_mit3206_22550119;

import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class ManageBooks extends AppCompatActivity {

    Button button;
    private DBManager dbManager;

    EditText editText1, editText2, editText3, editText4, editText5;
    Button addbook;
    Button clear;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```

setContentView(R.layout.activity_manage_books);

button = findViewById(R.id.btnback3);
button.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        AdminMenu();
    }
});

dbManager = new DBManager(this);

dbManager.open();

addbook = findViewById(R.id.btnbookadd);
clear = findViewById(R.id.btndelete);
editText1 = findViewById(R.id.txtBookID);
editText2 = findViewById(R.id.txtBooktitle);
editText3 = findViewById(R.id.txtpublishername);
editText4 = findViewById(R.id.txtauthorname2);
editText5 = findViewById(R.id.txtaddbranchname);

addbook.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        boolean valid = true;

        if (editText1.getText().toString().isEmpty() ||
editText2.getText().toString().isEmpty() ||
            editText3.getText().toString().isEmpty() ||
editText4.getText().toString().isEmpty() ||
            editText5.getText().toString().isEmpty()) {

            Toast.makeText(getApplicationContext(), "Fields can't be Null",
Toast.LENGTH_SHORT).show();
            valid = false;
        }
        if (valid) {

            String BookID = editText1.getText().toString();
            String BookName = editText2.getText().toString();
            String BookPublisher = editText3.getText().toString();
            String BookAuthor = editText4.getText().toString();
            String Branch = editText5.getText().toString();

            dbManager.insert("insert into Book values(" + BookID + "," + BookName + "," +

```

```

        "" + BookPublisher + "," + BookAuthor + "," + Branch + "");
        Toast.makeText(getApplicationContext(), "Successfully Inserted",
Toast.LENGTH_SHORT).show();
        Log.e("first", "Inserted");
        dbManager.close();
    } else {
        Toast.makeText(getApplicationContext(), "Error in Book Adding",
Toast.LENGTH_SHORT).show();
    }

}
});

```

```

clear.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        editText1.getText().clear();
        editText2.getText().clear();
        editText3.getText().clear();
        editText4.getText().clear();
        editText5.getText().clear();

        Toast.makeText(getApplicationContext(),
            "Successfully Deleted", Toast.LENGTH_SHORT).show();
    }
});
}

```

```

public void AdminMenu() {
    Intent intent = new Intent(this, AdminMenu.class);
    startActivity(intent);
}

```

```

public void MainActivity() {
    Intent intent = new Intent(this, MainActivity.class);
    startActivity(intent);
}

```

```

public void DatabaseHelper() {
    Intent intent = new Intent(this, DatabaseHelper.class);
    startActivity(intent);
}

```

```

public void DBManager() {
    Intent intent = new Intent(this, DBManager.class);
    startActivity(intent);
}

```

```

    }

    public void Lending() {
        Intent intent = new Intent(this, Lending.class);
        startActivity(intent);
    }

    public void MemberMenu(){
        Intent intent = new Intent(this, MemberMenu.class);
        startActivity(intent);
    }
}

```

- **ManageBranch.java**

```

package com.assignment7_mit3206_22550119;

import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class ManageBranch extends AppCompatActivity {

    Button button;
    private DBManager dbManager;

    EditText editText1, editText2, editText3;
    Button addbranch;
    Button clearbranch;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_manage_branch);

        button = findViewById(R.id.btnback5);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                AdminMenu();
            }
        }
    }
}

```



```

});

dbManager= new DBManager(this);

dbManager.open();

addbranch = findViewById(R.id.btnBranchAdd);
clearbranch = findViewById(R.id.btnBrachDelete);
editText1 = findViewById(R.id.txtBrachId);
editText2 = findViewById(R.id.txtBrachName);
editText3 = findViewById(R.id.txtbranchadd);

addbranch.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        boolean valid = true;

        if (editText1.getText().toString().isEmpty() ||
editText2.getText().toString().isEmpty() ||
        editText3.getText().toString().isEmpty()) {

            Toast.makeText(getApplicationContext(), "Fields can't be Null",
Toast.LENGTH_SHORT).show();
            valid = false;
        }
        if(valid) {

            String BranchID = editText1.getText().toString();
            String BranchName = editText2.getText().toString();
            String BranchAddress = editText3.getText().toString();

            dbManager.insert("insert into Branch values(" + BranchID + "," + BranchName +
            "," +
                "" + BranchAddress + ")");
            Toast.makeText(getApplicationContext(), "Successfully Inserted",
Toast.LENGTH_SHORT).show();
            Log.e("first", "Inserted");
            dbManager.close();
        }

        else
        {
            Toast.makeText(getApplicationContext(), "Error in Branch Adding",
Toast.LENGTH_SHORT).show();
        }
    }
}

```

```

    }
});

clearbranch.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        editText1.getText().clear();
        editText2.getText().clear();
        editText3.getText().clear();

        Toast.makeText(getApplicationContext(),
            "Successfully Deleted", Toast.LENGTH_SHORT).show();
    }
});
}

public void AdminMenu(){
    Intent intent = new Intent(this, AdminMenu.class);
    startActivity(intent);
}

public void MainActivity(){
    Intent intent = new Intent(this, MainActivity.class);
    startActivity(intent);
}

public void DatabaseHelper() {
    Intent intent = new Intent(this, DatabaseHelper.class);
    startActivity(intent);
}

public void DBManager() {
    Intent intent = new Intent(this, DBManager.class);
    startActivity(intent);
}

public void Lending(){
    Intent intent = new Intent(this, Lending.class);
    startActivity(intent);
}

public void MemberMenu(){
    Intent intent = new Intent(this, MemberMenu.class);
    startActivity(intent);
}
}

```

- **ManagePublisher.java**

```
package com.assignment7_mit3206_22550119;

import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class ManagePublisher extends AppCompatActivity {

    Button button;
    private DBManager dbManager;

    EditText editText1, editText2, editText3;
    Button addpublish;
    Button clearpub;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_manage_publisher);

        button = findViewById(R.id.btnback4);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                AdminMenu();
            }
        });

        dbManager= new DBManager(this);

        dbManager.open();

        addpublish = findViewById(R.id.btnaddpub);
        clearpub = findViewById(R.id.btndeletepub);
        editText1 = findViewById(R.id.txtPubName);
        editText2 = findViewById(R.id.txtpublisheradd);
        editText3 = findViewById(R.id.txtpubcontact);

        addpublish.setOnClickListener(new View.OnClickListener() {
```

```

@Override
public void onClick(View v) {

    boolean valid = true;

    if (editText1.getText().toString().isEmpty() ||
    editText2.getText().toString().isEmpty() ||
        editText3.getText().toString().isEmpty()) {

        Toast.makeText(getApplicationContext(), "Fields can't be Null",
        Toast.LENGTH_SHORT).show();
        valid = false;
    }
    if(valid) {

        String Name = editText1.getText().toString();
        String Address = editText2.getText().toString();
        String Phone = editText3.getText().toString();

        dbManager.insert("insert into Publisher values('" + Name + "','" + Address + "','" +
            "" + Phone + "')");
        Toast.makeText(ManagePublisher.this, "Successfully Inserted",
        Toast.LENGTH_SHORT).show();
        Log.e("first", "Inserted");
        dbManager.close();
    }

    else
    {
        Toast.makeText(ManagePublisher.this, "Error in Publisher Adding",
        Toast.LENGTH_SHORT).show();
    }

}
});

clearpub.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {

    editText1.getText().clear();
    editText2.getText().clear();
    editText3.getText().clear();

    Toast.makeText(getApplicationContext(),
        "Successfully Deleted", Toast.LENGTH_SHORT).show();
}
}

```

```
});  
}  
  
public void AdminMenu(){  
    Intent intent = new Intent(this, AdminMenu.class);  
    startActivity(intent);  
}  
  
public void MainActivity(){  
    Intent intent = new Intent(this, MainActivity.class);  
    startActivity(intent);  
}  
  
public void DatabaseHelper() {  
    Intent intent = new Intent(this, DatabaseHelper.class);  
    startActivity(intent);  
}  
  
public void DBManager() {  
    Intent intent = new Intent(this, DBManager.class);  
    startActivity(intent);  
}  
  
public void Lending(){  
    Intent intent = new Intent(this, Lending.class);  
    startActivity(intent);  
}  
  
public void MemberMenu(){  
    Intent intent = new Intent(this, MemberMenu.class);  
    startActivity(intent);  
}  
}
```

- **MemberLogin.java**

```
package com.assignment7_mit3206_22550119;  
  
import android.content.Intent;  
import android.database.Cursor;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;
```



```
import androidx.appcompat.app.AppCompatActivity;

public class MemberLogin extends AppCompatActivity {

    private Button bckButton;
    EditText UserName, Password;
    Button login;
    private DBManager dbManager;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_member_login);

        bckButton = findViewById(R.id.btnback2);
        bckButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                MainActivity();
            }
        });
        dbManager = new DBManager(this);
        dbManager.open();

        UserName = findViewById(R.id.txtUserName2);
        Password = findViewById(R.id.txtpass2);
        login = findViewById(R.id.login2);

        login.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if (UserName.getText().toString().isEmpty() ||
                Password.getText().toString().isEmpty()) {

                    Toast.makeText(getApplicationContext(), "Fields can't be Null",
                    Toast.LENGTH_SHORT).show();
                }
                else
                {
                    boolean valid;

                    if(valid = true)
                    {
                        Cursor cursor = dbManager.Select("select * from Member where UserName="
+ UserName.getText() +
                        " AND Password=" + Password.getText() + "");
                        if (cursor.moveToNext()) {
```

```

        Toast.makeText(MemberLogin.this, "Successfully Logged",
Toast.LENGTH_SHORT).show();
        Intent Member = new Intent(getApplicationContext(), MemberMenu.class);
        startActivity(Member);
    }
    else
    {
        Toast.makeText(getApplicationContext(), "Invalid Login",
Toast.LENGTH_SHORT).show();
    }
}
}
}
});
}

```

```

public void MainActivity(){
    Intent intent = new Intent(this, MainActivity.class);
    startActivity(intent);
}

```

```

public void DatabaseHelper() {
    Intent intent = new Intent(this, DatabaseHelper.class);
    startActivity(intent);
}

```

```

public void DBManager() {
    Intent intent = new Intent(this, DBManager.class);
    startActivity(intent);
}

```

```

public void MemberMenu(){
    Intent intent = new Intent(this, MemberMenu.class);
    startActivity(intent);
}
}

```

- **MemberMenu.java**

```

package com.assignment7_mit3206_22550119;

```

```

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

```

```
import androidx.appcompat.app.AppCompatActivity;

public class MemberMenu extends AppCompatActivity {

    Button button;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_member_menu);

        button = findViewById(R.id.btnmemberlogout);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                MainActivity();
            }
        });

        button = findViewById(R.id.btnsearchbooks);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) { SearchBooks(); }
        });
    }

    public void MainActivity(){
        Intent intent = new Intent(this, MainActivity.class);
        startActivity(intent);
    }

    public void SearchBooks(){
        Intent intent = new Intent(this, SearchBooks.class);
        startActivity(intent);
    }

    public void DatabaseHelper() {
        Intent intent = new Intent(this, DatabaseHelper.class);
        startActivity(intent);
    }

    public void DBManager() {
        Intent intent = new Intent(this, DBManager.class);
        startActivity(intent);
    }

    public void Lending(){
```

```
        Intent intent = new Intent(this, Lending.class);
        startActivity(intent);
    }
}
```

- **SearchBooks.java**

```
package com.assignment7_mit3206_22550119;
```

```
import android.content.Intent;
import android.database.Cursor;
import android.graphics.Color;
import android.os.Bundle;
import android.view.KeyEvent;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

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

```
public class SearchBooks extends AppCompatActivity {
```

```
    private ListView listView;
    private TextView textView;
    private EditText searchText;
    private Button backButton;
    private Button searchButton;
    private Button refreshButton;
    private DBManager dbManager;
    private List<String> bookList;
```

```
@Override
```

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_search_books);
```

```
    listView = findViewById(R.id.listView);
    textView = findViewById(R.id.textView);
```

```

textView.setTextColor(Color.BLACK);
searchEditText = findViewById(R.id.searchEditText);
backButton = findViewById(R.id.backButton);
searchButton = findViewById(R.id.searchButton);
refreshButton = findViewById(R.id.refreshButton);

dbManager = new DBManager(this);
dbManager.open();

bookList = new ArrayList<>();
Cursor cursor = dbManager.Select("SELECT * FROM Book");
if (cursor.moveToFirst()) {
    do {
        bookList.add("Book ID : " + cursor.getString(0) + '\n' + "Book Name : " +
cursor.getString(1) + '\n' + "Author : " + cursor.getString(2) + '\n' + "Publisher : " +
cursor.getString(3) + '\n' + "Branch : " + cursor.getString(4));
    } while (cursor.moveToNext());
}
cursor.close();
ArrayAdapter<String> adapter = new ArrayAdapter<String>(this, R.layout.list_item,
R.id.list_item_text, bookList);
listView.setAdapter(adapter);

listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
        String bookInfo = bookList.get(position);
        Toast.makeText(SearchBooks.this, "You had Selected this Book: " + bookInfo,
Toast.LENGTH_SHORT).show();
    }
});

searchEditText.setOnKeyListener(new View.OnKeyListener() {
    @Override
    public boolean onKeyDown(View v, int keyCode, KeyEvent event) {
        if ((event.getAction() == KeyEvent.ACTION_DOWN) &&
            (keyCode == KeyEvent.KEYCODE_ENTER)) {
            searchBooks();
            return true;
        }
        return false;
    }
});

refreshButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

```



```

        searchEditText.clearComposingText();
        searchBooks();
    }
});

searchButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        searchEditText.getText();
        searchBooks();
    }
});

backButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        MemberMenu();
    }
});
}

private void searchBooks() {
    String searchQuery = searchEditText.getText().toString();
    bookList.clear();
    Cursor cursor = dbManager.Select("SELECT * FROM Book WHERE BookID LIKE '%" +
searchQuery + "%' OR BookName LIKE '%" + searchQuery + "%' OR BookAuthor LIKE '%" +
searchQuery + "%' OR BookPublisher LIKE '%" + searchQuery + "%'");
    if(cursor.getCount() == 0){
        Toast.makeText(SearchBooks.this, "Book Not Found", Toast.LENGTH_SHORT).show();
    }else{
        while (cursor.moveToNext()){
            bookList.add("Book ID : " + cursor.getString(0) + '\n' + "Book Name : " +
cursor.getString(1) + '\n' + "Author : " + cursor.getString(2) + '\n' + "Publisher : " +
cursor.getString(3) + '\n' + "Branch : " + cursor.getString(4));
        }
    }
    cursor.close();
    ArrayAdapter<String> adapter = (ArrayAdapter<String>) listView.getAdapter();
    adapter.notifyDataSetChanged();
}

public void MemberMenu() {
    Intent intent = new Intent(this, MemberMenu.class);
    startActivity(intent);
}

public void DatabaseHelper() {

```

```
        Intent intent = new Intent(this, DatabaseHelper.class);
        startActivity(intent);
    }

    public void DBManager() {
        Intent intent = new Intent(this, DBManager.class);
        startActivity(intent);
    }

    public void Lending(){
        Intent intent = new Intent(this, Lending.class);
        startActivity(intent);
    }

    public void MainActivity() {
        Intent intent = new Intent(this, MainActivity.class);
        startActivity(intent);
    }
}
```

- **Signup.java**

```
package com.assignment7_mit3206_22550119;

import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class Signup extends AppCompatActivity {

    private Button bckButton;
    private DBManager dbManager;

    EditText eT1, eT2, eT3,eT4,eT5, eT6,eT7;
    Button signUp;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_signup);
    }
}
```

```

dbManager= new DBManager(this);
signUp = findViewById(R.id.btnSignUpS);
eT1 = findViewById(R.id.txtFirstName);
eT2 = findViewById(R.id.txtLastName);
eT3 = findViewById(R.id.txtPhone);
eT4 = findViewById(R.id.txtEmailAdd);
eT5 = findViewById(R.id.txtaddress);
eT6 = findViewById(R.id.txtUserName);
eT7 = findViewById(R.id.txtpass);

bckButton = findViewById(R.id.btnback);
bckButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        MainActivity();
    }
});

signUp.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        boolean valid = true;

        if (eT1.getText().toString().isEmpty() || eT2.getText().toString().isEmpty() ||
eT3.getText().toString().isEmpty()
            || eT4.getText().toString().isEmpty() || eT5.getText().toString().isEmpty() ||
eT6.getText().toString().isEmpty()
            || eT7.getText().toString().isEmpty()) {
            Toast.makeText(getApplicationContext(), "Fields can't be Null",
Toast.LENGTH_SHORT).show();
            valid = false;
        }

        if(valid) {
            String FirstName = eT1.getText().toString();
            String LastName = eT2.getText().toString();
            String Phone = eT3.getText().toString();
            String EmailAdd = eT4.getText().toString();
            String Address = eT5.getText().toString();
            String UserName = eT6.getText().toString();
            String Password = eT7.getText().toString();

            dbManager.open();

            dbManager.insert("insert into Member values(?, " + FirstName + ", " + LastName
+ ", " +

```

```

        "" + Phone + "," + EmailAdd + "," + Address + "," + UserName + "," +
Password + "");
        Toast.makeText(getApplicationContext(), "Successfully Inserted All Data",
Toast.LENGTH_SHORT).show();
        Log.e("first", "inserted");
        dbManager.close();
        Intent login = new Intent(getApplicationContext(), MemberMenu.class);
        startActivity(login);
    }
    else
    {
        Toast.makeText(getApplicationContext(), "Error in Sign Up Process",
Toast.LENGTH_SHORT).show();
    }

}
});
}

public void MainActivity(){
    Intent intent = new Intent(this, MainActivity.class);
    startActivity(intent);
}

public void DatabaseHelper() {
    Intent intent = new Intent(this, DatabaseHelper.class);
    startActivity(intent);
}

public void DBManager() {
    Intent intent = new Intent(this, DBManager.class);
    startActivity(intent);
}
}

```

- **activity\_main.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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:alpha="0.9"
    android:background="@drawable/library"

```

```
tools:context=".MainActivity">
```

```
<TextView
```

```
    android:id="@+id/textView5"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="30dp"  
    android:backgroundTintMode="src_over"  
    android:text="Welcome..!"  
    android:textAppearance="@style/TextAppearance.AppCompat.Body1"  
    android:textColor="@color/ic_launcher_background"  
    android:textSize="34sp"  
    android:textStyle="bold|italic"  
    app:fontFamily="serif"  
    app:layout_constraintBottom_toTopOf="@+id/textView4"  
    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="0.452" />
```

```
<TextView
```

```
    android:id="@+id/textView4"  
    android:layout_width="328dp"  
    android:layout_height="160dp"  
    android:layout_marginTop="130dp"  
    android:backgroundTintMode="src_over"  
    android:text="Library Management System"  
    android:textAlignment="center"  
    android:textAllCaps="false"  
    android:textColor="#F6FAF9"  
    android:textSize="40sp"  
    android:textStyle="bold"  
    app:fontFamily="serif"  
    app:layout_constraintBottom_toTopOf="@+id/btnadminlogin"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintHorizontal_bias="0.493"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toTopOf="parent"  
    app:layout_constraintVertical_bias="0" />
```

```
<Button
```

```
    android:id="@+id/btnmemlogin"  
    style="@style/Widget.AppCompat.Button"  
    android:layout_width="140dp"  
    android:layout_height="50dp"  
    android:background="@color/colorPrimaryDark"
```



```

android:backgroundTintMode="src_over"
android:text="Login"
android:textAllCaps="false"
android:textColor="@android:color/white"
android:textStyle="bold"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.498"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.725" />

```

<Button

```

android:id="@+id/btnadminlogin"
style="@style/Widget.AppCompat.Button"
android:layout_width="140dp"
android:layout_height="50dp"
android:background="@color/colorPrimaryDark"
android:backgroundTintMode="src_over"
android:text="Admin Login"
android:textAllCaps="false"
android:textColor="@android:color/white"
android:textStyle="bold"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@+id/btnregister"
app:layout_constraintHorizontal_bias="0.5"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.897" />

```

<Button

```

android:id="@+id/btnregister"
android:layout_width="140dp"
android:layout_height="50dp"
android:background="@color/colorPrimaryDark"
android:backgroundTintMode="src_over"
android:text="Signup"
android:textColor="@android:color/white"
android:textStyle="bold"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.5"
app:layout_constraintStart_toEndOf="@+id/btnadminlogin"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.897" />

```

</androidx.constraintlayout.widget.ConstraintLayout>

- **activity\_admin\_login.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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:alpha="0.9"
    android:alwaysDrawnWithCache="false"
    android:animateLayoutChanges="false"
    android:animationCache="false"
    android:background="@drawable/library1"
    tools:context=".AdminLogin"
    tools:visibility="visible">

    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="100dp"
        android:layout_marginTop="40dp"
        android:backgroundTintMode="src_over"
        android:text="ADMIN LOGIN"
        android:textColor="@color/ic_launcher_background"
        android:textSize="30sp"
        android:textStyle="bold"
        app:fontFamily="monospace"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/txtuname1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="40dp"
        android:layout_marginTop="156dp"
        android:textStyle="bold"
        android:text="Username"
        android:textColor="@color/ic_launcher_background"
        android:backgroundTintMode="src_over"
        android:textSize="24sp"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
```

```
android:id="@+id/txtpassword1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="40dp"
android:layout_marginTop="296dp"
android:textStyle="bold"
android:text="Password"
android:textColor="@color/ic_launcher_background"
android:textSize="24sp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/txtUserName1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="90dp"
android:layout_marginTop="200dp"
android:backgroundTint="#ECE6E6"
android:cursorVisible="false"
android:textStyle="bold"
android:ems="10"
android:inputType="textPersonName"
android:textColor="#F4F0F0"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/txtpass1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="90dp"
android:layout_marginTop="356dp"
android:backgroundTint="@color/ic_launcher_background"
android:ems="10"
android:inputType="textPassword"
android:textColor="@color/ic_launcher_background"
android:textStyle="bold"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<Button

```
android:id="@+id/login1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="144dp"
android:layout_marginTop="484dp"
```

```

android:background="@color/colorPrimaryDark"
android:backgroundTintMode="src_over"
android:text="Login"
android:textColor="@android:color/white"
android:textStyle="bold"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

<Button

```

android:id="@+id/btnback1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="144dp"
android:layout_marginTop="596dp"
android:background="@color/colorPrimaryDark"
android:backgroundTintMode="src_over"
android:text="Back"
android:textColor="@android:color/white"
android:textStyle="bold"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

</androidx.constraintlayout.widget.ConstraintLayout>

- **activity\_admin\_menu.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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/library1"
    tools:context=".AdminMenu">

```

<TextView

```

android:id="@+id/textView6"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="100dp"
android:layout_marginTop="44dp"
android:text="Admin Menu"
android:textColor="@color/ic_launcher_background"
android:textSize="30sp"
android:textStyle="bold"

```

```
app:fontFamily="monospace"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<Button

```
    android:id="@+id/btnaddingB"
    android:layout_width="280dp"
    android:layout_height="49dp"
    android:layout_marginTop="92dp"
    android:background="@color/colorPrimaryDark"
    android:text="Manage Book"
    android:textColor="@android:color/white"
    android:textStyle="bold"
    app:layout_constraintBottom_toTopOf="@+id/btnmanagepub"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.503"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.465" />
```

<Button

```
    android:id="@+id/btnmanagepub"
    android:layout_width="280dp"
    android:layout_height="49dp"
    android:layout_marginTop="176dp"
    android:background="@color/colorPrimaryDark"
    android:text="Manage Publisher"
    android:textColor="@android:color/white"
    android:textStyle="bold"
    app:layout_constraintBottom_toTopOf="@+id/btnbranch"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.503"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.505" />
```

<Button

```
    android:id="@+id/btnbranch"
    android:layout_width="280dp"
    android:layout_height="49dp"
    android:layout_marginTop="244dp"
    android:background="@color/colorPrimaryDark"
    android:text="Manage Branch"
    android:textColor="@android:color/white"
    android:textStyle="bold"
    app:layout_constraintBottom_toTopOf="@+id/btnlending"
    app:layout_constraintEnd_toEndOf="parent"
```

```
app:layout_constraintHorizontal_bias="0.503"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.606" />
```

```
<Button
    android:id="@+id/btnlending"
    android:layout_width="280dp"
    android:layout_height="49dp"
    android:background="@color/colorPrimaryDark"
    android:text="Book Lending"
    android:textColor="@android:color/white"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.503"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.623" />
```

```
<Button
    android:id="@+id/btnlogout"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="228dp"
    android:layout_marginTop="576dp"
    android:background="@color/colorPrimary"
    android:text="Logout"
    android:textColor="@android:color/white"
    android:textStyle="bold"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

- **activity\_lending.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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:alpha="0.9"
    android:background="@drawable/library1"
```



```
tools:context=".Lending">
```

```
<TextView
```

```
    android:id="@+id/textView9"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="104dp"
    android:layout_marginTop="40dp"
    android:text="Book Lending"
    android:textColor="@color/ic_launcher_background"
    android:textSize="30sp"
    android:textStyle="bold"
    app:fontFamily="monospace"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<TextView
```

```
    android:id="@+id/txtbrach"
    android:layout_width="96dp"
    android:layout_height="36dp"
    android:layout_marginStart="25dp"
    android:layout_marginTop="112dp"
    android:textStyle="bold"
    android:text="Branch ID"
    android:textColor="@color/ic_launcher_background"
    android:textSize="20sp"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<EditText
```

```
    android:id="@+id/txtBranchIDBook"
    android:layout_width="222dp"
    android:layout_height="39dp"
    android:layout_marginStart="125dp"
    android:layout_marginTop="107dp"
    android:textStyle="bold"
    android:backgroundTint="@color/ic_launcher_background"
    android:ems="10"
    android:inputType="textPersonName"
    android:textColor="#FBFBFB"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<TextView
```

```
    android:id="@+id/txtCardNo"
    android:layout_width="96dp"
    android:layout_height="36dp"
```

```
android:layout_marginStart="25dp"
android:layout_marginTop="168dp"
android:textStyle="bold"
android:text="Card No"
android:textColor="@color/ic_launcher_background"
android:textSize="20sp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/txtCardNoBook"
android:layout_width="222dp"
android:layout_height="39dp"
android:layout_marginStart="125dp"
android:layout_marginTop="163dp"
android:backgroundTint="@color/ic_launcher_background"
android:ems="10"
android:inputType="textPersonName"
android:textStyle="bold"
android:textColor="@color/ic_launcher_background"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<TextView

```
android:id="@+id/txtDate1"
android:layout_width="96dp"
android:layout_height="36dp"
android:layout_marginStart="25dp"
android:layout_marginTop="232dp"
android:textStyle="bold"
android:text="Date Out"
android:textColor="@color/ic_launcher_background"
android:textSize="20sp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/txtDateout"
android:layout_width="222dp"
android:layout_height="39dp"
android:layout_marginStart="125dp"
android:layout_marginTop="227dp"
android:backgroundTint="@color/ic_launcher_background"
android:ems="10"
android:inputType="textPersonName"
android:textStyle="bold"
android:textColor="@color/ic_launcher_background"
```

```
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<TextView

```
android:id="@+id/txtDate2"
android:layout_width="96dp"
android:layout_height="36dp"
android:layout_marginStart="24dp"
android:layout_marginTop="300dp"
android:text="Date Due"
android:textColor="@color/ic_launcher_background"
android:textSize="20sp"
android:textStyle="bold"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/txtDaeDue"
android:layout_width="222dp"
android:layout_height="39dp"
android:layout_marginStart="125dp"
android:layout_marginTop="295dp"
android:backgroundTint="@color/ic_launcher_background"
android:ems="10"
android:textStyle="bold"
android:inputType="textPersonName"
android:textColor="@color/ic_launcher_background"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<TextView

```
android:id="@+id/txtDate3"
android:layout_width="120dp"
android:layout_height="36dp"
android:layout_marginStart="23dp"
android:layout_marginTop="376dp"
android:text="Date Return"
android:textStyle="bold"
android:textColor="@color/ic_launcher_background"
android:textSize="20sp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/txtDateReturn"
android:layout_width="222dp"
android:layout_height="39dp"
```

```

android:layout_marginStart="127dp"
android:layout_marginTop="371dp"
android:backgroundTint="@color/ic_launcher_background"
android:ems="10"
android:textStyle="bold"
android:inputType="textPersonName"
android:textColor="@color/ic_launcher_background"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

<Button

```

android:id="@+id/btnAddLend"
android:layout_width="142dp"
android:layout_height="46dp"
android:background="@color/colorPrimaryDark"
android:text="Add"
android:textColor="@android:color/white"
android:textStyle="bold"
app:layout_constraintBottom_toTopOf="@+id/btnDeleteLend"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.531"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/txtDateReturn"
app:layout_constraintVertical_bias="0.633" />

```

<Button

```

android:id="@+id/btnDeleteLend"
android:layout_width="142dp"
android:layout_height="46dp"
android:layout_marginBottom="28dp"
android:background="@color/colorPrimaryDark"
android:text="Clear"
android:textColor="@android:color/white"
android:textStyle="bold"
app:layout_constraintBottom_toTopOf="@+id/btnback6"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.529"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/txtDateReturn"
app:layout_constraintVertical_bias="0.922" />

```

<Button

```

android:id="@+id/btnback6"
android:layout_width="142dp"
android:layout_height="46dp"
android:background="@color/colorPrimaryDark"
android:text="Back"

```

```

    android:textColor="@android:color/white"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.526"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/txtDateReturn"
    app:layout_constraintVertical_bias="0.881" />

```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

- **activity\_manage\_books.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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/library1"
    android:alpha="0.9"
    tools:context=".ManageBooks">

    <TextView
        android:id="@+id/textView7"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="88dp"
        android:layout_marginTop="24dp"
        android:text="Manage Books"
        android:textColor="@color/ic_launcher_background"
        android:textSize="30sp"
        android:textStyle="bold"
        app:fontFamily="monospace"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/txtbook"
        android:layout_width="96dp"
        android:layout_height="36dp"
        android:layout_marginStart="15dp"
        android:layout_marginTop="100dp"
        android:textStyle="bold"
        android:text="Book ID"

```

```

    android:textColor="@color/ic_launcher_background"
    android:textSize="20sp"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

<EditText

```

    android:id="@+id/txtBookID"
    android:layout_width="222dp"
    android:layout_height="39dp"
    android:layout_marginStart="120dp"
    android:layout_marginTop="95dp"
    android:textStyle="bold"
    android:ems="10"
    android:backgroundTint="@color/ic_launcher_background"
    android:textColor="#FBFBFB"
    android:inputType="textPersonName"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

<TextView

```

    android:id="@+id/txttitle"
    android:layout_width="107dp"
    android:layout_height="39dp"
    android:layout_marginStart="15dp"
    android:layout_marginTop="160dp"
    android:textStyle="bold"
    android:text="Book Name"
    android:textColor="@color/ic_launcher_background"
    android:textSize="20sp"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

<EditText

```

    android:id="@+id/txtBooktitle"
    android:layout_width="222dp"
    android:layout_height="39dp"
    android:layout_marginStart="120dp"
    android:layout_marginTop="155dp"
    android:ems="10"
    android:textStyle="bold"
    android:inputType="textPersonName"
    android:backgroundTint="@color/ic_launcher_background"
    android:textColor="#FBFBFB"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

<TextView



```
android:id="@+id/txtpub"  
android:layout_width="107dp"  
android:layout_height="39dp"  
android:layout_marginStart="15dp"  
android:layout_marginTop="216dp"  
android:textStyle="bold"  
android:text="Publisher"  
android:textColor="@color/ic_launcher_background"  
android:textSize="20sp"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/txtpublishername"  
android:layout_width="222dp"  
android:layout_height="39dp"  
android:layout_marginStart="120dp"  
android:layout_marginTop="211dp"  
android:textStyle="bold"  
android:ems="10"  
android:inputType="textPersonName"  
android:backgroundTint="@color/ic_launcher_background"  
android:textColor="#FBFBFB"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent" />
```

<TextView

```
android:id="@+id/txtauthorname"  
android:layout_width="107dp"  
android:layout_height="39dp"  
android:layout_marginStart="15dp"  
android:layout_marginTop="268dp"  
android:textStyle="bold"  
android:text="Author"  
android:textColor="@color/ic_launcher_background"  
android:textSize="20sp"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/txtauthorname2"  
android:layout_width="222dp"  
android:layout_height="39dp"  
android:layout_marginStart="120dp"  
android:layout_marginTop="264dp"  
android:textStyle="bold"  
android:ems="10"
```

```

    android:inputType="textPersonName"
    android:backgroundTint="@color/ic_launcher_background"
    android:textColor="#FBFBFB"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

<TextView

```

    android:id="@+id/txtbranchname"
    android:layout_width="107dp"
    android:layout_height="39dp"
    android:layout_marginStart="15dp"
    android:layout_marginTop="320dp"
    android:textStyle="bold"
    android:text="Branch"
    android:textColor="@color/ic_launcher_background"
    android:textSize="20sp"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

<EditText

```

    android:id="@+id/txtaddbranchname"
    android:layout_width="222dp"
    android:layout_height="39dp"
    android:layout_marginStart="120dp"
    android:layout_marginTop="315dp"
    android:textStyle="bold"
    android:ems="10"
    android:inputType="textPersonName"
    android:backgroundTint="@color/ic_launcher_background"
    android:textColor="#FBFBFB"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

<Button

```

    android:id="@+id/btndelete"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="140dp"
    android:layout_marginTop="508dp"
    android:background="@color/colorPrimaryDark"
    android:text="Clear"
    android:textColor="@android:color/white"
    android:textStyle="bold"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

<Button

```

    android:id="@+id/btnbookadd"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="140dp"
    android:layout_marginTop="424dp"
    android:background="@color/colorPrimaryDark"
    android:text="Add"
    android:textColor="@android:color/white"
    android:textStyle="bold"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

<Button

```

    android:id="@+id/btnback3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="140dp"
    android:layout_marginTop="596dp"
    android:background="@color/colorPrimaryDark"
    android:text="Back"
    android:textColor="@android:color/white"
    android:textStyle="bold"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

</androidx.constraintlayout.widget.ConstraintLayout>

- **activity\_manage\_branch.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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:alpha="0.9"
    android:background="@drawable/library1"
    tools:context=".ManageBranch">

    <TextView
        android:id="@+id/textView6"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="76dp"
        android:layout_marginTop="28dp"

```

```

android:text="Manage Branch"
android:textColor="@color/ic_launcher_background"
android:textSize="30sp"
android:textStyle="bold"
app:fontFamily="monospace"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

<TextView

```

android:id="@+id/txtbrach"
android:layout_width="96dp"
android:layout_height="36dp"
android:layout_marginStart="15dp"
android:layout_marginTop="100dp"
android:textStyle="bold"
android:text="Branch ID"
android:textColor="@color/ic_launcher_background"
android:textSize="20sp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

<EditText

```

android:id="@+id/txtBrachId"
android:layout_width="222dp"
android:layout_height="39dp"
android:layout_marginStart="120dp"
android:layout_marginTop="95dp"
android:textStyle="bold"
android:backgroundTint="@color/ic_launcher_background"
android:ems="10"
android:inputType="textPersonName"
android:textColor="#FBFBFB"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

<TextView

```

android:id="@+id/txtbrach1"
android:layout_width="96dp"
android:layout_height="36dp"
android:layout_marginStart="15dp"
android:layout_marginTop="168dp"
android:textStyle="bold"
android:text="Name"
android:textColor="@color/ic_launcher_background"
android:textSize="20sp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

```
<EditText
    android:id="@+id/txtBrachName"
    android:layout_width="222dp"
    android:layout_height="39dp"
    android:layout_marginStart="120dp"
    android:layout_marginTop="163dp"
    android:textStyle="bold"
    android:ems="10"
    android:inputType="textPersonName"
    android:backgroundTint="@color/ic_launcher_background"
    android:textColor="#FBFBFB"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<TextView
    android:id="@+id/txtbrach2"
    android:layout_width="96dp"
    android:layout_height="36dp"
    android:layout_marginStart="15dp"
    android:layout_marginTop="248dp"
    android:textStyle="bold"
    android:text="Address"
    android:textColor="@color/ic_launcher_background"
    android:textSize="20sp"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<EditText
    android:id="@+id/txtbranchadd"
    android:layout_width="222dp"
    android:layout_height="39dp"
    android:layout_marginStart="120dp"
    android:layout_marginTop="243dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:textStyle="bold"
    android:backgroundTint="@color/ic_launcher_background"
    android:textColor="#FBFBFB"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<Button
    android:id="@+id/btnBranchAdd"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="136dp"
```

```

android:layout_marginTop="352dp"
android:background="@color/colorPrimaryDark"
android:text="Add"
android:textColor="@android:color/white"
android:textStyle="bold"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

<Button

```

android:id="@+id/btnBrachDelete"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="136dp"
android:layout_marginTop="436dp"
android:background="@color/colorPrimaryDark"
android:text="Clear"
android:textColor="@android:color/white"
android:textStyle="bold"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

<Button

```

android:id="@+id/btnback5"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="136dp"
android:layout_marginTop="520dp"
android:background="@color/colorPrimaryDark"
android:text="Back"
android:textColor="@android:color/white"
android:textStyle="bold"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

</androidx.constraintlayout.widget.ConstraintLayout>

- **activity\_manage\_publisher.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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/library1"

```

```

android:alpha="0.9"
tools:context=".ManagePublisher">

```

```

<TextView
    android:id="@+id/textView6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="72dp"
    android:layout_marginTop="24dp"
    android:text="Manage Publisher"
    android:textColor="@color/ic_launcher_background"
    android:textSize="30sp"
    android:textStyle="bold"
    app:fontFamily="monospace"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

```

<TextView
    android:id="@+id/txtpubname"
    android:layout_width="96dp"
    android:layout_height="36dp"
    android:layout_marginStart="25dp"
    android:layout_marginTop="100dp"
    android:textStyle="bold"
    android:text="Name"
    android:textColor="@color/ic_launcher_background"
    android:textSize="20sp"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

```

<EditText
    android:id="@+id/txtPubName"
    android:layout_width="222dp"
    android:layout_height="39dp"
    android:layout_marginStart="120dp"
    android:layout_marginTop="95dp"
    android:textStyle="bold"
    android:ems="10"
    android:inputType="textPersonName"
    android:backgroundTint="@color/ic_launcher_background"
    android:textColor="#FBFBFB"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

```

<TextView
    android:id="@+id/txtaddpub"
    android:layout_width="96dp"

```



```
android:layout_height="36dp"
android:layout_marginStart="25dp"
android:layout_marginTop="176dp"
android:textStyle="bold"
android:text="Address"
android:textColor="@color/ic_launcher_background"
android:textSize="20sp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

#### <EditText

```
android:id="@+id/txtpublisheradd"
android:layout_width="222dp"
android:layout_height="39dp"
android:layout_marginStart="120dp"
android:layout_marginTop="171dp"
android:textStyle="bold"
android:ems="10"
android:inputType="textPersonName"
android:backgroundTint="@color/ic_launcher_background"
android:textColor="#FBFBFB"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

#### <TextView

```
android:id="@+id/txtpubphone"
android:layout_width="96dp"
android:layout_height="36dp"
android:layout_marginStart="25dp"
android:layout_marginTop="256dp"
android:textStyle="bold"
android:text="Phone"
android:textColor="@color/ic_launcher_background"
android:textSize="20sp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

#### <EditText

```
android:id="@+id/txtpubcontact"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="120dp"
android:layout_marginTop="245dp"
android:textStyle="bold"
android:ems="10"
android:inputType="phone"
android:backgroundTint="@color/ic_launcher_background"
```

```
android:textColor="#FBFBFB"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent" />
```

<Button

```
android:id="@+id/btnaddpub"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_marginStart="140dp"  
android:layout_marginTop="364dp"  
android:background="@color/colorPrimaryDark"  
android:text="Add"  
android:textColor="@android:color/white"  
android:textStyle="bold"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent" />
```

<Button

```
android:id="@+id/btndeletepub"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_marginStart="140dp"  
android:layout_marginTop="452dp"  
android:background="@color/colorPrimaryDark"  
android:text="Clear"  
android:textColor="@android:color/white"  
android:textStyle="bold"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent" />
```

<Button

```
android:id="@+id/btnback4"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_marginStart="140dp"  
android:layout_marginTop="548dp"  
android:background="@color/colorPrimaryDark"  
android:text="Back"  
android:textColor="@android:color/white"  
android:textStyle="bold"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

- **activity\_member\_login.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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/library3"
    android:alpha="0.9"
    tools:context=".MemberLogin">

    <TextView
        android:id="@+id/textView6"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="96dp"
        android:layout_marginTop="40dp"
        android:text="Member Login"
        android:textColor="@color/ic_launcher_background"
        android:textSize="30sp"
        android:textStyle="bold"
        app:fontFamily="monospace"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/txtuname2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="50dp"
        android:layout_marginTop="156dp"
        android:text="Username"
        android:textColor="@color/ic_launcher_background"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/txtpassword2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="50dp"
        android:layout_marginTop="296dp"
        android:text="Password"
```

```

android:textColor="@color/ic_launcher_background"
android:textSize="20sp"
android:textStyle="bold"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

<EditText

```

android:id="@+id/txtUserName2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="90dp"
android:layout_marginTop="200dp"
android:textStyle="bold"
android:ems="10"
android:inputType="textPersonName"
android:backgroundTint="@color/ic_launcher_background"
android:textColor="#FBFBFB"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

<EditText

```

android:id="@+id/txtpass2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="90dp"
android:layout_marginTop="356dp"
android:textStyle="bold"
android:ems="10"
android:inputType="textPassword"
android:backgroundTint="@color/ic_launcher_background"
android:textColor="#FBFBFB"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

<Button

```

android:id="@+id/login2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="140dp"
android:layout_marginTop="480dp"
android:background="@color/colorPrimaryDark"
android:text="Login"
android:textColor="@android:color/white"
android:textStyle="bold"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

```
<Button
    android:id="@+id/btnback2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="140dp"
    android:layout_marginTop="576dp"
    android:background="@color/colorPrimaryDark"
    android:text="Back"
    android:textColor="@android:color/white"
    android:textStyle="bold"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

- **activity\_member\_menu.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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/library3"
    android:alpha="0.9"
    tools:context=".MemberMenu">
```

```
<TextView
    android:id="@+id/textView6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Member Menu"
    android:textColor="@color/ic_launcher_background"
    android:textSize="30sp"
    android:textStyle="bold"
    app:fontFamily="monospace"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.162" />
```

```
<Button
    android:id="@+id/btnsearchbooks"
    android:layout_width="280dp"
```

```

android:layout_height="49dp"
android:layout_marginStart="36dp"
android:layout_marginTop="244dp"
android:background="@color/colorPrimaryDark"
android:text="Search Books"
android:textColor="@android:color/white"
android:textStyle="bold"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

<Button

```

android:id="@+id/btnmemberlogout"
android:layout_width="100dp"
android:layout_height="49dp"
android:layout_marginStart="216dp"
android:layout_marginTop="444dp"
android:background="@color/colorPrimaryDark"
android:text="Logout"
android:textColor="@android:color/white"
android:textStyle="bold"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

</androidx.constraintlayout.widget.ConstraintLayout>

- **activity\_search\_books.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:background="@drawable/library4"
    android:orientation="vertical">

    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textStyle="bold"
        android:textColorHint="@android:color/black"
        android:textColor="@android:color/black" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

```

```
<EditText
    android:id="@+id/searchEditText"
    android:layout_width="0dp"
    android:textColor="@android:color/black"
    android:textColorHint="@android:color/black"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:hint="Search Books Details"
    android:inputType="text" />

<Button
    android:id="@+id/searchButton"
    android:textStyle="bold"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Search" />

</LinearLayout>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">

    <Button
        android:id="@+id/backButton"
        android:textStyle="bold"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Back to Member Menu" />

    <Button
        android:id="@+id/refreshButton"
        android:textStyle="bold"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="20dp"
        android:text="Refresh Page" />

</LinearLayout>

<ListView
    android:id="@+id/listView"
    android:textStyle="bold"
    android:textColor="@android:color/black"
    android:textColorHint="@android:color/black"
    android:divider="#000000"
```



```

    android:dividerHeight="8px"
    android:layout_width="match_parent"
    android:layout_height="wrap_content" />

```

```
</LinearLayout>
```

- **activity\_signup.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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/library2"
    android:alpha="0.9"
    tools:context=".Signup">

    <EditText
        android:id="@+id/txtaddress"
        android:layout_width="220dp"
        android:layout_height="41dp"
        android:layout_marginStart="125dp"
        android:layout_marginTop="318dp"
        android:backgroundTint="@color/ic_launcher_background"
        android:ems="10"
        android:inputType="textPersonName"
        android:textColor="#FBFBFB"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/txtadd"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="25dp"
        android:layout_marginTop="328dp"
        android:text="Address"
        android:textColor="@color/ic_launcher_background"
        android:textSize="20sp"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/txtFirstName"

```

```
android:layout_width="216dp"
android:layout_height="43dp"
android:layout_marginStart="125dp"
android:layout_marginTop="82dp"
android:backgroundTint="@color/ic_launcher_background"
android:ems="10"
android:inputType="textPersonName"
android:textColor="#FBFBFB"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<TextView

```
android:id="@+id/txtContact"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="25dp"
android:layout_marginTop="212dp"
android:text="Contact"
android:textColor="@color/ic_launcher_background"
android:textSize="20sp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/txtEmailAdd"
android:layout_width="220dp"
android:layout_height="42dp"
android:layout_marginStart="125dp"
android:layout_marginTop="266dp"
android:backgroundTint="@color/ic_launcher_background"
android:ems="10"
android:inputType="textEmailAddress"
android:textColor="#FBFBFB"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<TextView

```
android:id="@+id/txtFName"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="25dp"
android:layout_marginTop="92dp"
android:text="First Name"
android:textColor="@color/ic_launcher_background"
android:textSize="20sp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

```
<TextView
    android:id="@+id/txtFLame"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="25dp"
    android:layout_marginTop="156dp"
    android:text="Last Name"
    android:textColor="@color/ic_launcher_background"
    android:textSize="20sp"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<EditText
    android:id="@+id/txtPhone"
    android:layout_width="217dp"
    android:layout_height="43dp"
    android:layout_marginStart="125dp"
    android:layout_marginTop="202dp"
    android:backgroundTint="@color/ic_launcher_background"
    android:ems="10"
    android:inputType="phone"
    android:textColor="#FBFBFB"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<EditText
    android:id="@+id/txtLastName"
    android:layout_width="219dp"
    android:layout_height="42dp"
    android:layout_marginStart="125dp"
    android:layout_marginTop="147dp"
    android:backgroundTint="@color/ic_launcher_background"
    android:ems="10"
    android:inputType="textPersonName"
    android:textColor="#FBFBFB"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<TextView
    android:id="@+id/txtemail"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="25dp"
    android:layout_marginTop="276dp"
    android:text="Email"
    android:textColor="@color/ic_launcher_background"
```

```

        android:textSize="20sp"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

```

<TextView

```

        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="88dp"
        android:layout_marginTop="24dp"
        android:text="Member Singup"
        android:textColor="@color/ic_launcher_background"
        android:textSize="30sp"
        android:textStyle="bold"
        app:fontFamily="monospace"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

```

<EditText

```

        android:id="@+id/txtUserName"
        android:layout_width="214dp"
        android:layout_height="45dp"
        android:layout_marginStart="125dp"
        android:layout_marginTop="376dp"
        android:textStyle="bold"
        android:backgroundTint="@color/ic_launcher_background"
        android:ems="10"
        android:inputType="textPersonName"
        android:textColor="#FBFBFB"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

```

<Button

```

        android:id="@+id/btnSignUpS"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="@color/colorPrimaryDark"
        android:text="Signup"
        android:textColor="@android:color/white"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/txtpass"
        app:layout_constraintVertical_bias="0.24" />

```

<TextView

```
android:id="@+id/txtuname"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_marginStart="25dp"  
android:layout_marginTop="384dp"  
android:textStyle="bold"  
android:text="Username"  
android:textColor="@color/ic_launcher_background"  
android:textSize="20sp"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent" />
```

#### <TextView

```
android:id="@+id/txtpassword"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_marginStart="25dp"  
android:layout_marginTop="440dp"  
android:textStyle="bold"  
android:text="Password"  
android:textColor="@color/ic_launcher_background"  
android:textSize="20sp"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent" />
```

#### <EditText

```
android:id="@+id/txtpass"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_marginStart="125dp"  
android:layout_marginTop="430dp"  
android:textStyle="bold"  
android:backgroundTint="@color/ic_launcher_background"  
android:ems="10"  
android:textColor="#FBFBFB"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent" />
```

#### <Button

```
android:id="@+id/btnback"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:background="@color/colorPrimaryDark"  
android:text="Back"  
android:textColor="@android:color/white"  
android:textStyle="bold"  
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/txtpass"
app:layout_constraintVertical_bias="0.649" />

```

```

</androidx.constraintlayout.widget.ConstraintLayout>

```

- **menu.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto">
    <item
        android:id="@+id/action_search"
        android:title="Search"
        android:textColor="#FFFFFF"
        android:divider="#000000"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:icon="@drawable/ic_action_search_foreground"
        app:showAsAction="ifRoom|collapseActionView"
        app:actionViewClass="android.widget.SearchView" />
</menu>

```

- **ic\_launcher\_background.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="ic_launcher_background">#FFFFFF</color>
</resources>

```

- **ic\_action\_search\_foreground.xml**

```

<vector xmlns:android="http://schemas.android.com/apk/res/android"
    android:width="108dp"
    android:height="108dp"
    android:viewportWidth="41.37931"
    android:viewportHeight="41.37931"
    android:tint="#FFFFFF">
    <group android:translateX="8.689655"
        android:translateY="8.689655">
        <path

```

```

        android:fillColor="#FFFFFF"
        android:pathData="M15.5,14h-0.79l-0.28,-0.27C15.41,12.59 16,11.11 16,9.5 16,5.91
13.09,3 9.5,3S3,5.91 3,9.5 5.91,16 9.5,16c1.61,0 3.09,-0.59 4.23,-
1.57l0.27,0.28v0.79l5,4.99L20.49,19l-4.99,-5zM9.5,14C7.01,14 5,11.99 5,9.5S7.01,5 9.5,5
14,7.01 14,9.5 11.99,14 9.5,14z"/>
    </group>
</vector>

```

- **list\_item.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/list_item_text"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textStyle="bold"
    android:textColorHint="@android:color/black"
    android:textColor="@android:color/black" />

```

- **AndroidManifest.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.assignment7_mit3206_22550119"
    xmlns:tools="http://schemas.android.com/tools">

    <uses-permission android:name="android.permission.INTERNET" />

    <uses-feature android:name="android.hardware.touchscreen" />

    <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:supportRtl="true"
        android:theme="@style/Theme.Assignment7MIT320622550119"
        tools:targetApi="34">
        <activity android:name=".SearchBooks" />
        <activity android:name=".Lending" />
        <activity android:name=".ManageBranch" />
        <activity android:name=".ManagePublisher" />
    </application>

```



```

<activity android:name=".ManageBooks" />
<activity android:name=".MemberMenu" />
<activity android:name=".MemberLogin" />
<activity android:name=".AdminLogin" />
<activity android:name=".Signup" />
<activity android:name=".AdminMenu" />
<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>
</application>

</manifest>

```

- Drawable



Library



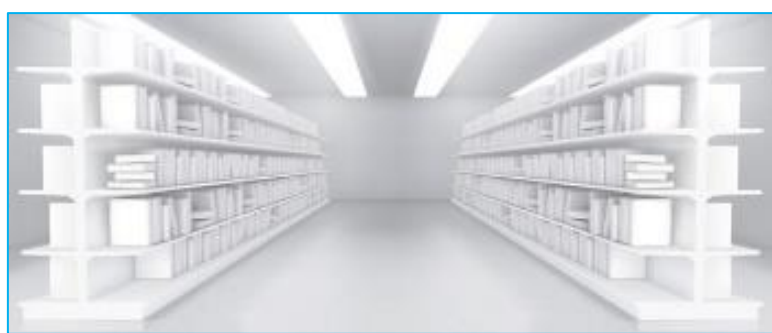
Library1



Library2



Library3



library4