❖ **Course Module : MIT3206 - Mobile Computing**

❖ **Course Lecturer : Senior Lecturer Gihan P. Seneviratne Sir**

❖ **Assignment 7 : Android App which is Supporting Basic Library Management Functions**

❖ **Used Android Studio : Android Studio Koala | 2024.1.1**

❖ **GitHub Private Repository Link :**

https://github.com/NavinduMadusanka/Assignment7-MIT3206-22550119.git

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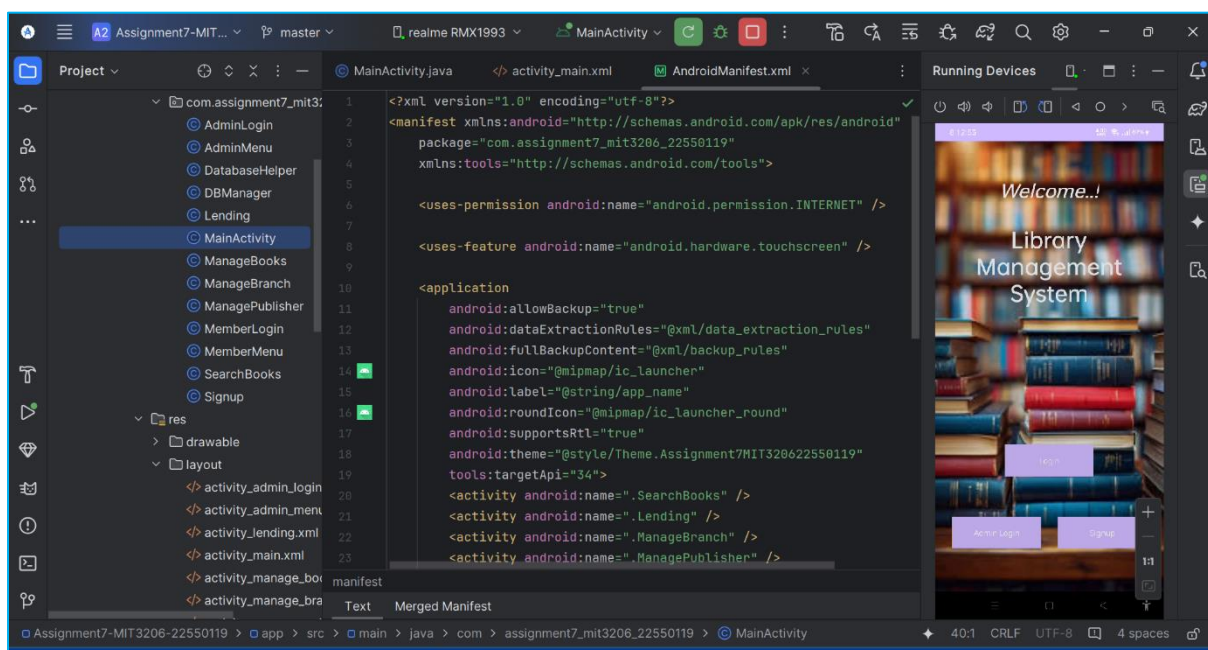
Assignment7-MIT3206-22550119

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

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 AndroidMainfest.xml**

- **menu.xml in res**

- **ic_action_search_foreground.xml in drawable**

- **ic_launcher_background.xml in values**

- **list_item.xml in res - 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.
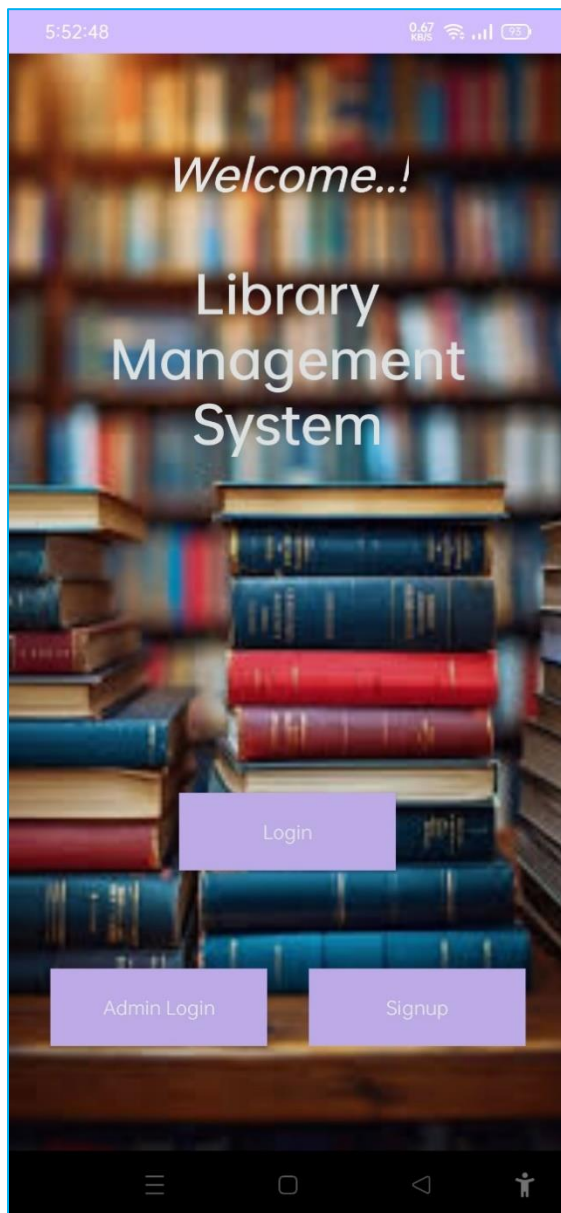

Photo 1 : Assignment7-MIT3206-22550119 in Realme X2 RMX1993
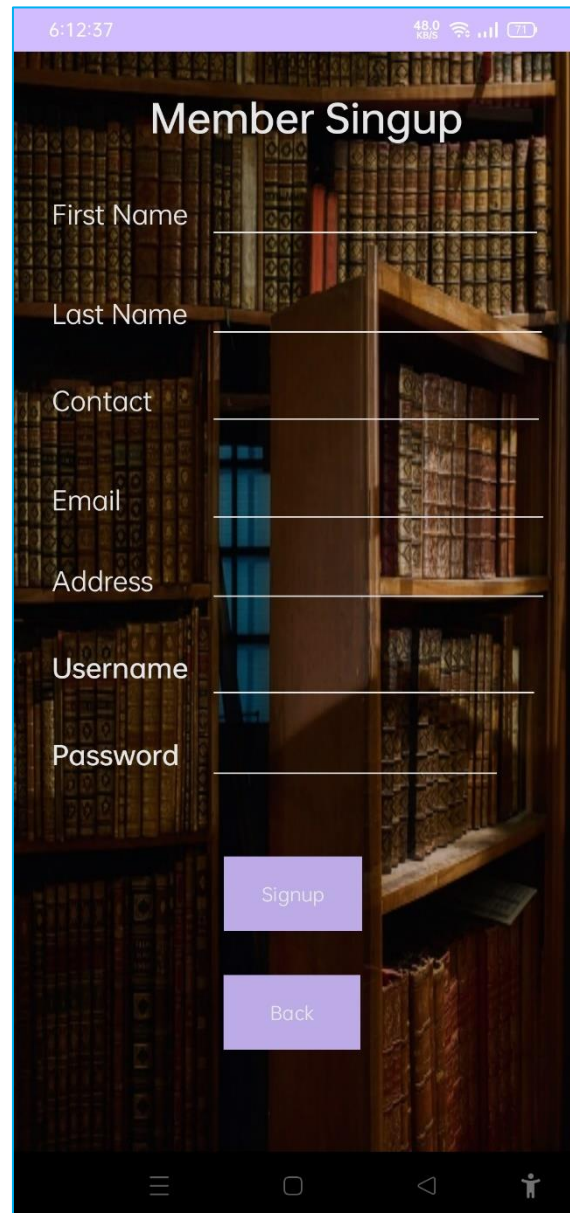
Photo 2 : Assignment7-MIT3206-22550119 in Realme X2 RMX1993
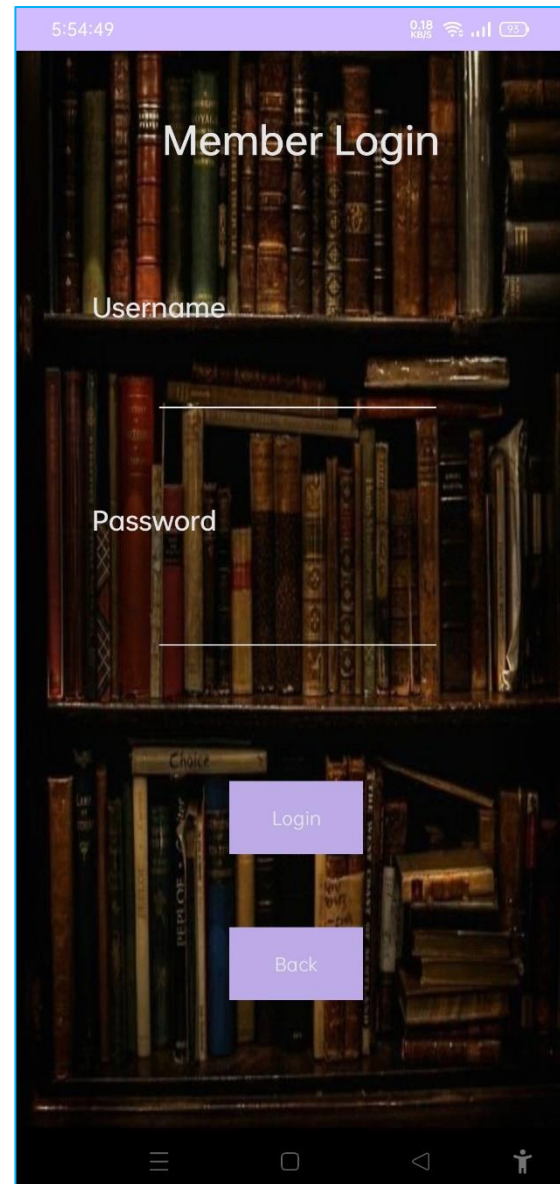
Photo 3 : Assignment7-MIT3206-22550119 in Realme X2 RMX1993

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
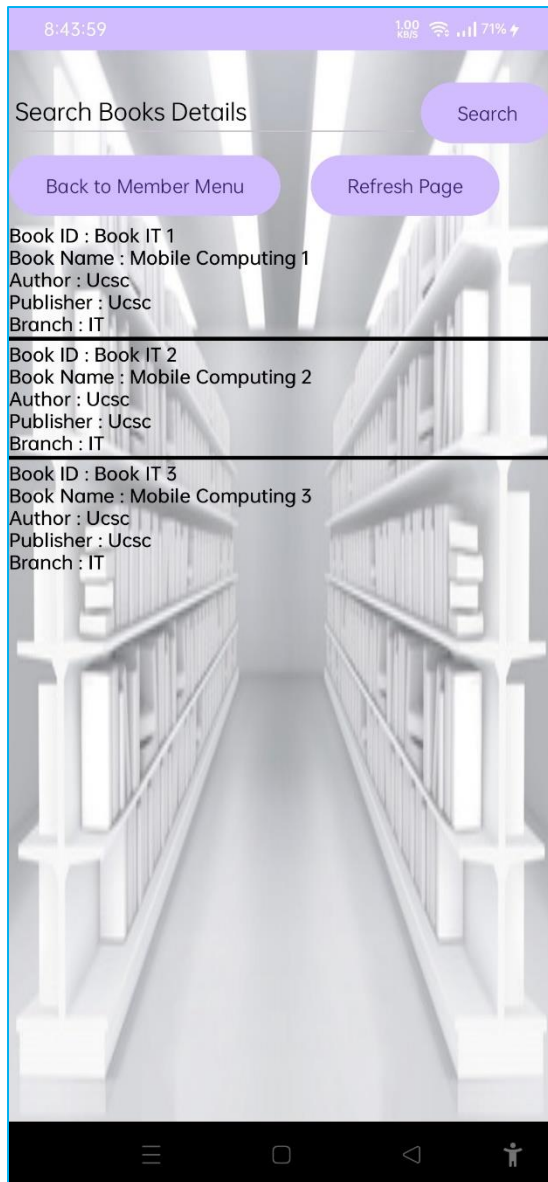
Photo 7 : Assignment7-MIT3206-22550119 in Realme X2 RMX1993
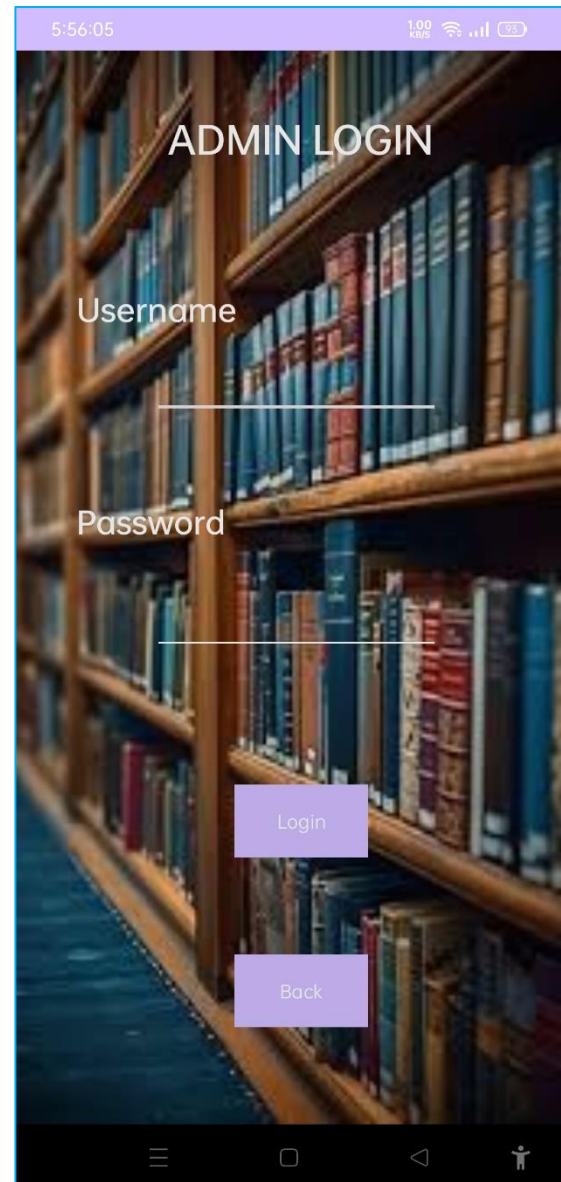
Photo 8 : Assignment7-MIT3206-22550119 in Realme X2 RMX1993
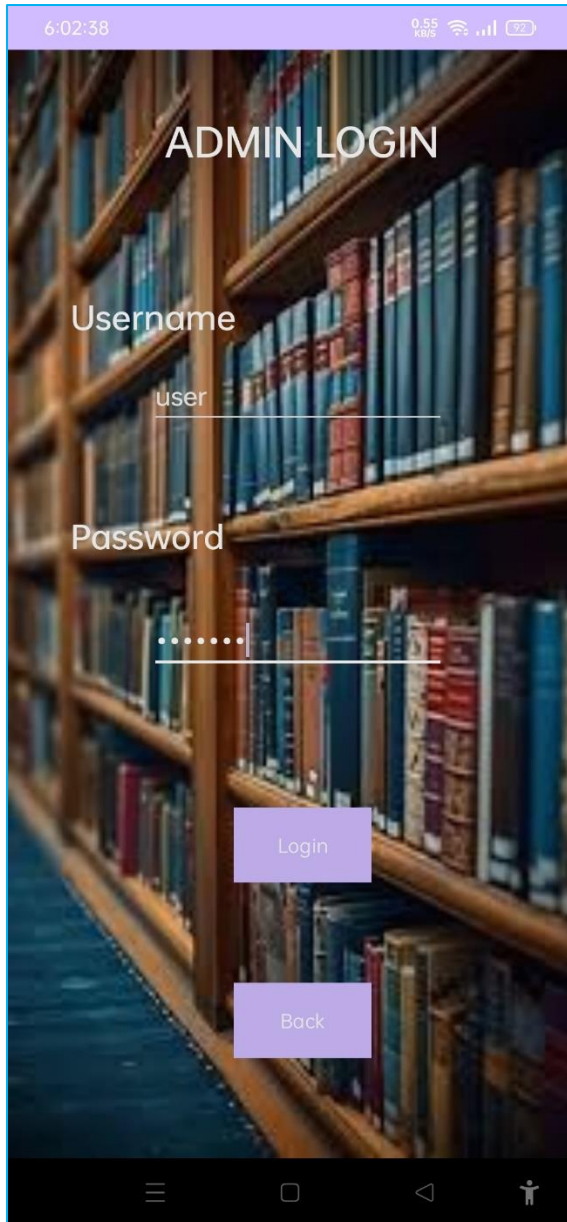
Photo 9 : Assignment7-MIT3206-22550119 in Realme X2 RMX1993

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

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

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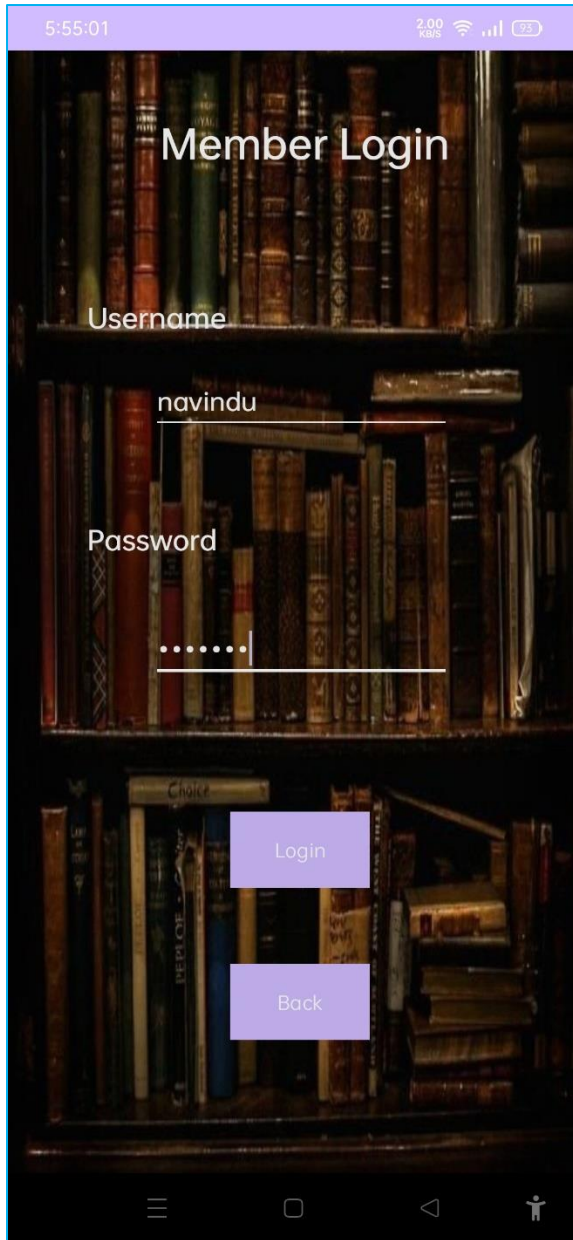
Photo 15 : Assignment7-MIT3206-22550119 in Realme X2 RMX1993
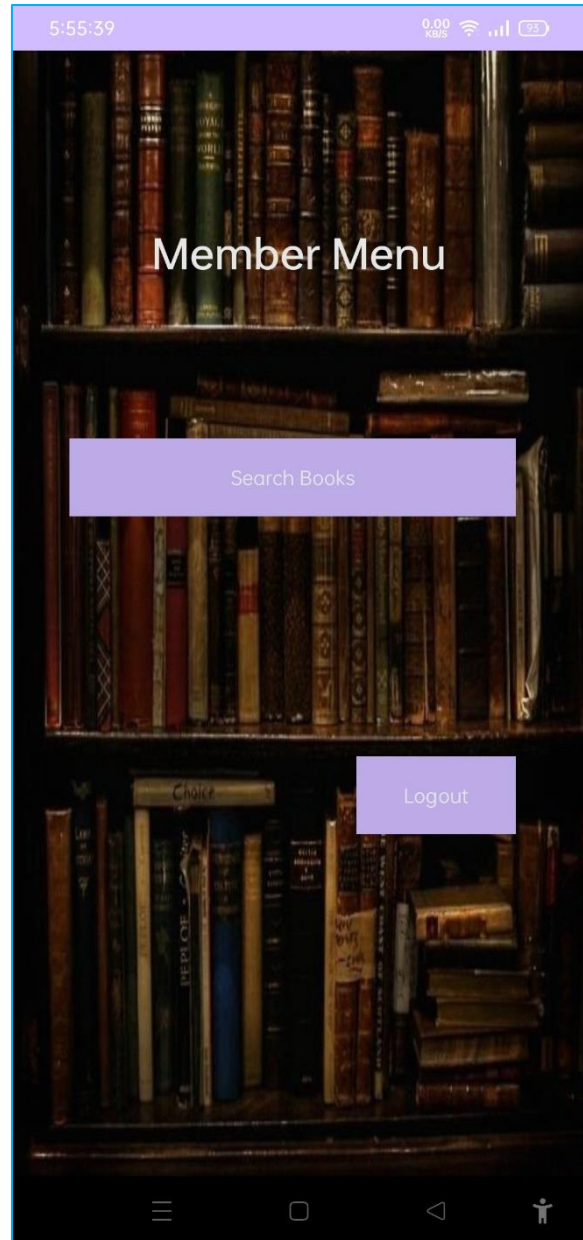

Photo 16 : Assignment7-MIT3206-22550119 in Realme X2 RMX1993

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

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

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

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

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

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

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

4. Main Coding files

- **MainActivity.java**

```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();
            }
        });
    }
```

```java
    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**

```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") &&
```

```java
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**

```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
```

```java
        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);
```

```java
    }

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

- **DatabaseHelper.java**

```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";
```

```java
    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);
```

```java
        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**

```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**

```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);
```

```java
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() {
```

```java
        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**

```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);
```

```java
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 + "'," +
```

```java
                "'" + 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);
```

```java
    }

    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**

```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();
            }
```

```java
        });

        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();
                }
```

```java
            }
        });

        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**

```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() {
```

```java
        @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();
        }
```

```java
        });
    }

    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**

```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;
```

```java
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()) {
```

```java
                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**

```java
package com.assignment7_mit3206_22550119;

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

```java
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(){
```

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

- **SearchBooks.java**

```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.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 searchEditText;
    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);
```

```java
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 onKey(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) {
```

```java
                    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() {
```

```java
        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**

```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);
```

```java
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
+ "'," +
```

```java
                "'" + 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
<?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"
```

```xml
    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"
```

```xml
        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
<?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
```

```xml
        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"
```

```xml
            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
<?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"
```

```xml
        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"
```

```xml
        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
<?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"
```

```xml
    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"
```

```xml
            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"
```

```xml
        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"
```

```xml
        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"
```

```xml
        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"
```

```xml
        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
```

```xml
    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
<?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"
```

```xml
            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" />
```

```xml
<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"
```

```xml
    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
<?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"
```

```xml
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"
```

```xml
            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"
```

```xml
            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
<?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"
```

```xml
        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" />
```

```xml
<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
<?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">
```

```xml
    <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"
```

```xml
        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" />
```

```xml
<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"
```

```xml
        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
```

```xml
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"
```

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

- **ic_action_search_foreground.xml**

```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
```

```xml
        android:fillColor="#FFFFFFFF"
        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
<?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" />
```

- **AndroidMainfest.xml**

```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:supportsRtl="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" />
```

```xml
<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>
```
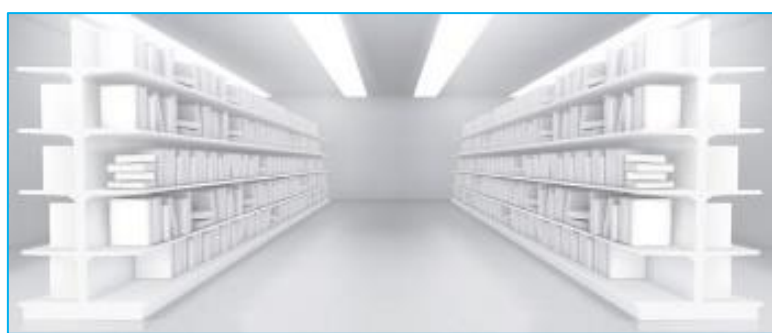
- **Drawable**

Library

Library1

Library2

Library3

library4