EXP 8 LIBRARY MANAGEMENT SYSTEM

AIM:

To develop a **Library Management System** using **Android Studio** that allows users to enter book details, validates the inputs on the frontend, and displays a cute success message upon submission. The app uses a beautiful UI and ensures input correctness without connecting to a backend.

ALGORITHM:

- 1. Start the Application.
- 2. Display the **book entry form** with fields:

Book Name, Author, ISBN, and Category.

- 3. Wait for the user to enter the details.
- 4. On **Submit Button Click**: o Check if **all fields** are filled. o If any field is empty, show a **toast message**: "Please fill all fields".

 If all fields are valid:

Display a big "Book Added Successfully" message.

5. End.

CODE:

MainActivity.kt

```
kotlin CopyEdit
package com.example.calci
 import
android.os.Bundle import
android.widget.*
import androidx.appcompat.app.AppCompatActivity
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?)
          super.onCreate(savedInstanceState)
setContentView(R.layout.activity main)
        val bookName = findViewById<EditText>(R.id.bookName)
val author = findViewById<EditText>(R.id.author)
                                                          val
isbn = findViewById<EditText>(R.id.isbn)
                                                 val
category = findViewById<EditText>(R.id.category)
                                                          val
submitBtn = findViewById<Button>(R.id.submitBtn)
                                                          val
message = findViewById<TextView>(R.id.successMessage)
        submitBtn.setOnClickListener {
```

```
val bName = bookName.text.toString().trim()
val auth = author.text.toString().trim()
                                                      val
isbnCode = isbn.text.toString().trim()
                                                   val
cat = category.text.toString().trim()
            if (bName.isEmpty() || auth.isEmpty() || isbnCode.isEmpty() ||
cat.isEmpty()) {
                Toast.makeText(this, "Please fill all fields",
Toast.LENGTH SHORT).show()
} else {
                message.text = "\uD83D\uDCDA Book Added Successfully!"
message.visibility = TextView.VISIBLE
        }
    }
}
```

activity_main.xml

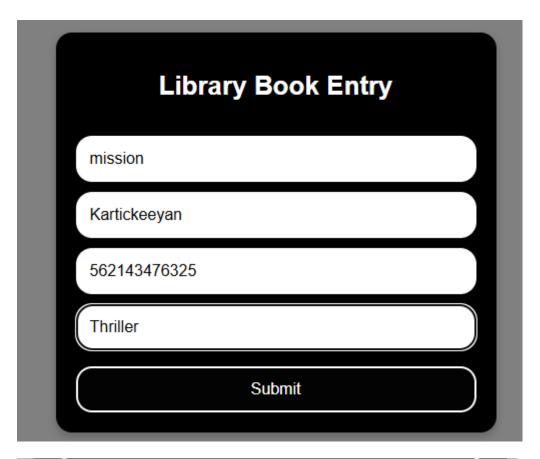
```
xml
CopyEdit
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
android:orientation="vertical"
                               android:padding="24dp"
android:gravity="center"
android:background="@color/pink bg"
android:layout width="match parent"
android:layout height="match parent">
    <TextView
        android:text="☐ Library Book Entry"
android:textSize="26sp"
        android:textColor="@color/deep pink"
android:layout marginBottom="24dp"
android:textStyle="bold"
android:layout_gravity="center"
android:layout width="wrap content"
android:layout height="wrap content" />
    <EditText
        android:id="@+id/bookName"
android:hint="Book Name"
        android:background="@drawable/input bg"
android:layout width="match parent"
android:layout height="wrap content" />
    <EditText
        android:id="@+id/author"
android:hint="Author Name"
        android:background="@drawable/input bg"
android:layout marginTop="10dp"
android:layout width="match parent"
android:layout height="wrap content" />
<EditText
```

```
android:id="@+id/isbn"
android:hint="ISBN"
       android:background="@drawable/input bg"
android:layout_marginTop="10dp"
android:layout width="match parent"
android:layout height="wrap content" />
    <EditText
        android:id="@+id/category"
android:hint="Category"
       android:background="@drawable/input bg"
android:layout_marginTop="10dp"
android:layout width="match parent"
android:layout height="wrap content" />
    <Button
        android:id="@+id/submitBtn"
android:text="Submit"
android:layout marginTop="16dp"
android:backgroundTint="@color/deep pink"
android:textColor="#fff"
android:layout width="match parent"
android:layout height="wrap content" />
    <TextView
        android:id="@+id/successMessage"
android:text=""
                       android:textSize="22sp"
android:gravity="center"
android:textStyle="bold"
        android:textColor="@color/success green"
android:layout marginTop="18dp"
android: visibility="gone"
android: layout width="match parent"
android:layout height="wrap content"/>
</LinearLayout>
```

colors.xml

input bg.xml (drawable folder)

OUTPUT:



Book Added Successfully!

RESULT:	
When the user fills in all the fields and presses Submit , the screen displays:	
Book Added Successfully!	
With black background, rounded input fields, toast messages for empty fields, and success UI.	