

# **20CE 504L Programming Skills Development-II Laboratory (2023-24 Sem-I)**

## **SYNOPSIS FORMAT FOR MINI-PROJECT**

### **1. Group Member Roll No and C no. Name**

1. Hiral Kattawar (UCE2021633).
2. Tanishqua Kawade (UCE2021634).
3. Lajri Marathe (UCE2021645).
4. Samrudhi Patil (UCE2021649).

### **2. Problem Statement.**

‘BookBhandar App’

### **3. Technology Selected – Android**

Creating a book app for Android can involve various technologies.

Here are some commonly used ones:

- Programming Languages:

Java : Official languages for Android development.

- Development Frameworks:

Android Studio : Official Integrated Development  
Environment (IDE) for Android development

- Database :  
Firebase

#### **4. Keywords**

Android studio, User Interface Design, XML Layouts,  
Recycler View, Intents, Fragments, Activities, Navigation  
Component, Firebase Authentication

#### **5. Abstract(150 words approx.)**

Creating a book shop app involves designing the user interface  
and writing the underlying code to make the app function  
seamlessly. This can be achieved using android studio as follows:

##### **User Interface Design:**

1. Main Activity UI
2. Book listing UI
3. Book detail UI
4. User Profile and settings
5. Shopping cart UI

##### **Coding Aspects:**

1. UI layout and elements
2. Activity and fragment classes
3. Recycler view for book listing

4. Navigation
5. Data Management
6. User Authentication

## 6. Module wise Scope

**App module:** It contains the main activities, fragments, and user interface components for navigating the app.

**UI module:** Contains XML layout files and user interface components for navigating the app.

**Data module:** Contains data models, database access code and network communication.

**Profile module:** Contains user profile, order and payment history.

**Home module:** Contains home fragment, image slider adapter, etc.

**Search module:** Contains searching mechanism for books.

**Seller module:** Adding books, their quantity available at the shop and prices.

## 7. Technological features covered

Android studio provides a wide range of technological features and tools to help us create, test and debug android applications.

### **User Interface Design:**

Different Layouts, Buttons, Custom drawable resource files, Colors and containers.

### **Code Editing:**

Code Completion: Android Studio offers intelligent code completion, helping developers write code faster and with fewer errors.

Code Navigation: Easy navigation through the project, with features like Go to Definition, Find Usages, and more.

**Refactoring Tools: Built-in refactoring tools for code restructuring and maintenance.**

### **Firebase Integration:**

- Firebase Tools: Integration with Firebase services for app analytics, cloud messaging, crash reporting, and more.

### **Build and compilation:**

Gradle Build System: Android Studio uses Gradle to manage project build processes, including dependency management and task automation.

Instant Run: Allows quick code and resource updates without a full app rebuild.

**Debugging.**

**Emulation.**

## **8. Conclusion :**

The app's features, such as intuitive search functions, and a seamless shopping experience, cater to the individual preferences and reading habits of each user. The integration of user reviews and ratings adds an element of trust and peer-driven recommendations, making the Book Shop App a reliable source for literary enthusiasts.

## **9. References :**

Different you tube videos, Google, and study material provided on classroom

## **10. Screenshots :**

## BookBhandar

Email

Password



[Forget Password?](#)

Log In

[Create New Account](#)

[Join us for business as Seller](#)

Textview

emailInput

passwordInput

Button

Button

Button

Button



Home



Add Books



Update Order status



Books List

#### My information



My profile



All orders



Payment history

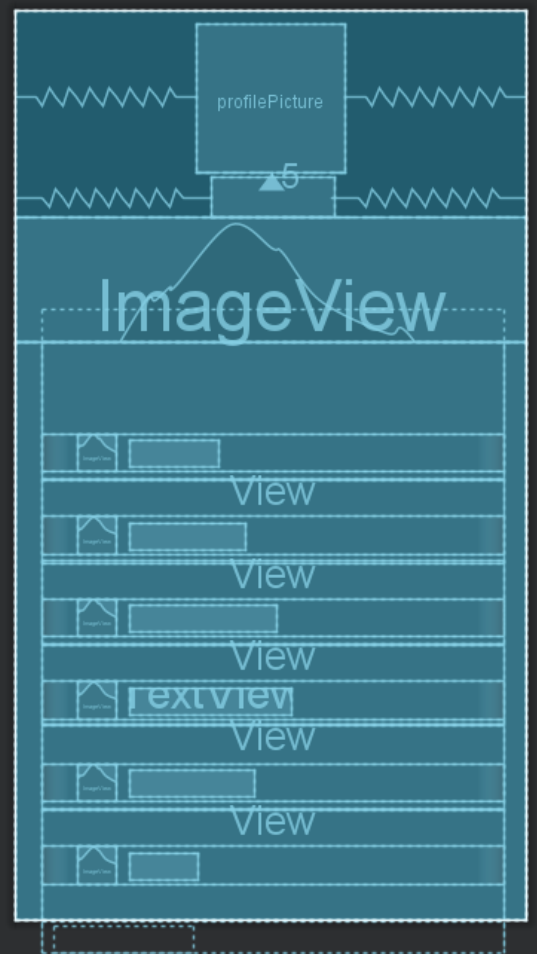
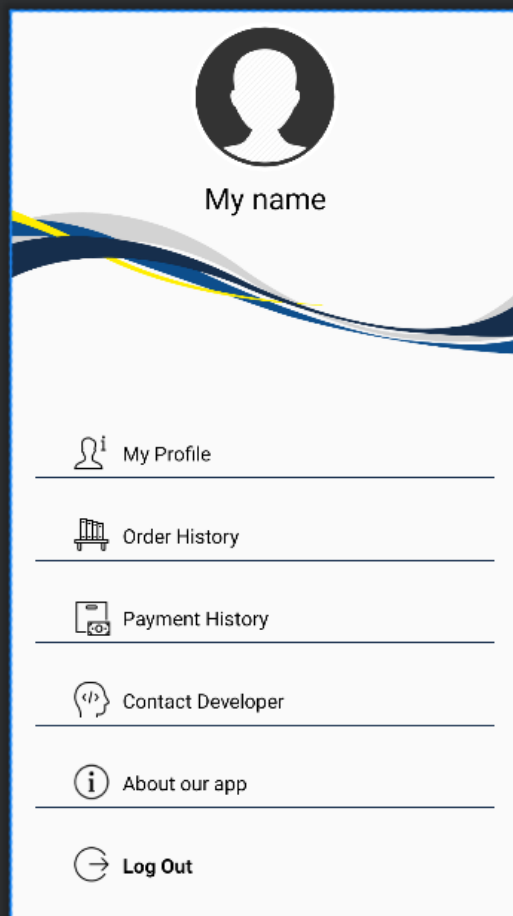
#### Others



Report problem/Contact us



About our app





### Update details

For order:

TextView

ufirstname

ulastname

uphno

TextView

uaddress

upincode

verifyemail

Button

## Order Summary

My name

Phone no

—

(Click on address to change address and pincode for this order)



My name

Author Name

Genre

### Price details

Price(1 item)

Delivery charges

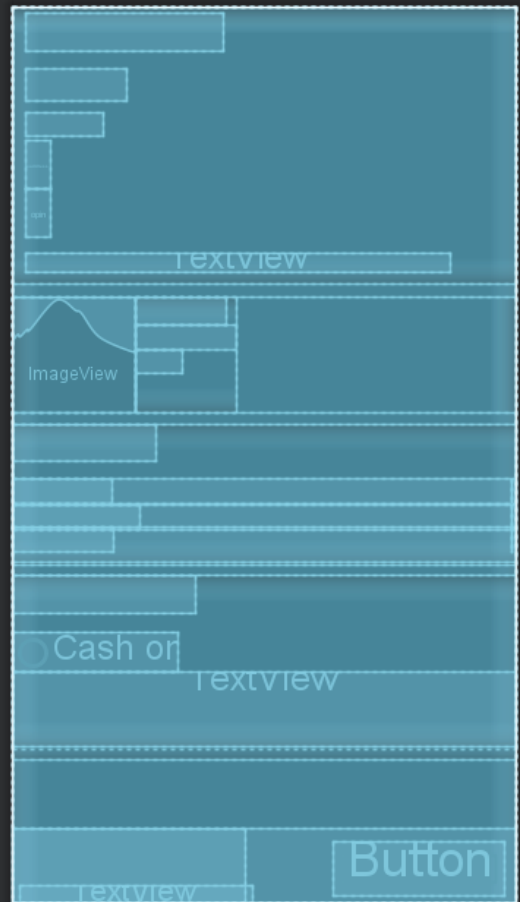
Total amount

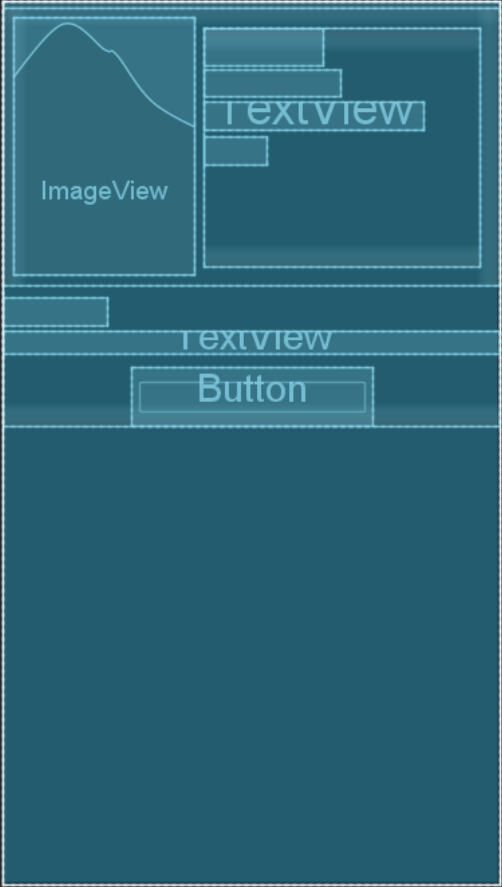
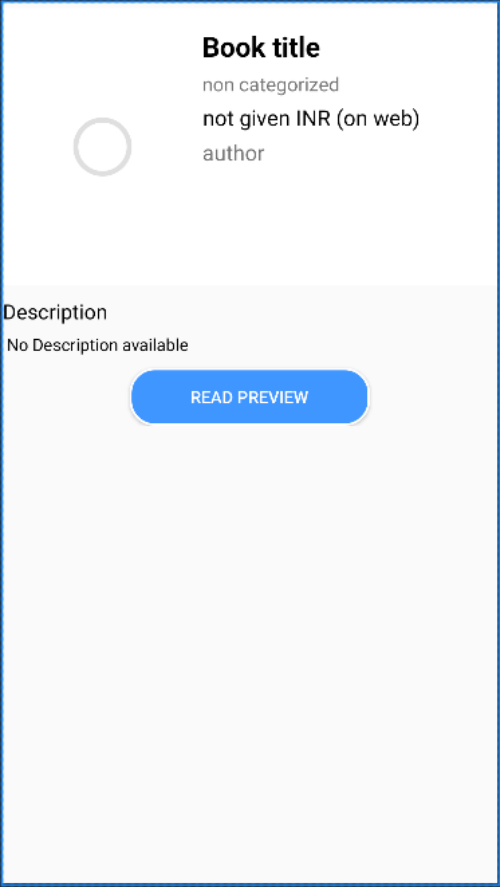
### Payment details

☐ Cash on delivery

You will have to pay the money and other document(if required) on delivery. You can pay in cash or UPI, card or any other online mode too.

Final amount to pay

[Place Order](#)



Address

Enter new address

Pincode

USE THIS ADDRESS FOR THIS ORDER

textadd

textpin

Button

