



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

School of Computer Science Engineering and Information Systems
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Programme Name & Branch: Bachelor of Computer Applications
Course Name & code: Mobile Application Development & ITA2011
Course Type: EPJ
Faculty Name: Dr. P. Shunmuga Perumal
Review: III
Marks: 50 marks

Review- III Report

Slot	L55 + L56
Project title	Books Sharing Application
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Abstract:

The "Books Sharing" mobile application is designed to revolutionize how readers connect and exchange books within their community. This user-friendly platform enables individuals to catalog, list, and share their personal book collections with others. Key features include a searchable database of available books, a user rating and review system, and real-time notifications for book availability. By fostering a culture of book sharing, the application aims to promote literacy, reduce reading costs, and build a network of engaged readers. With intuitive design and robust functionalities, the app supports both casual and avid readers in discovering new books and connecting with like-minded individuals.

Project Implementation:

A book-sharing application allows users to borrow and lend books within a community. Users can create profiles, list the books they own, and specify which ones they are willing to share. When someone wants to borrow a book, they can search for it within the app, find a nearby lender, and request to borrow it. The app facilitates communication between the borrower and lender to arrange the exchange. It also tracks the status of borrowed books, sending reminders for returns and providing reviews and ratings for both parties to ensure a trustworthy and reliable sharing experience.

Advantages:

- **Cost Savings** : Users can borrow books instead of purchasing them, saving money on book purchases.
- **Environmental Impact**: Reduces the need for new books to be printed, contributing to less paper waste and a smaller carbon footprint.
- **Access to a Wide Range of Books** : Users can access a diverse collection of books that they might not otherwise afford or find.
- **Community Building**: Encourages interaction and connection among users who share similar interests in reading.
- **Encourages Reading**: Makes it easier and more convenient for people to read more frequently by providing easy access to a variety of books.

Limitations:

1. Trust and Security

- Ensuring the reliability and trustworthiness of users can be challenging, especially when arranging exchanges.

2. Logistics and Availability

- Coordinating the exchange process can be inconvenient, particularly if users are not located nearby.

3. Book Condition:

- The quality and condition of books may vary, which could affect user satisfaction.

4. Limited Inventory:

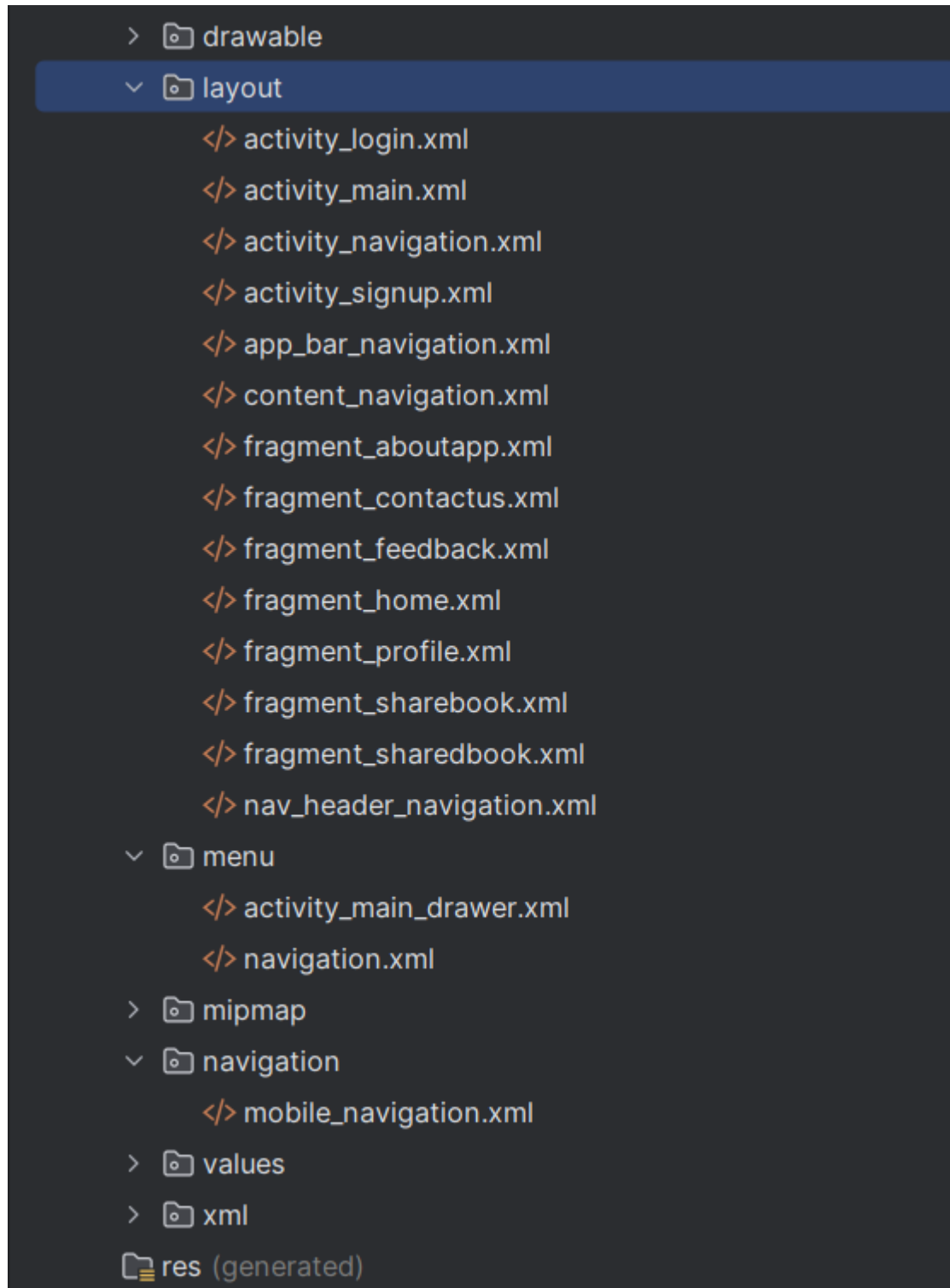
- The availability of books depends on user contributions, which may not always meet demand.

5. Technological Barriers:

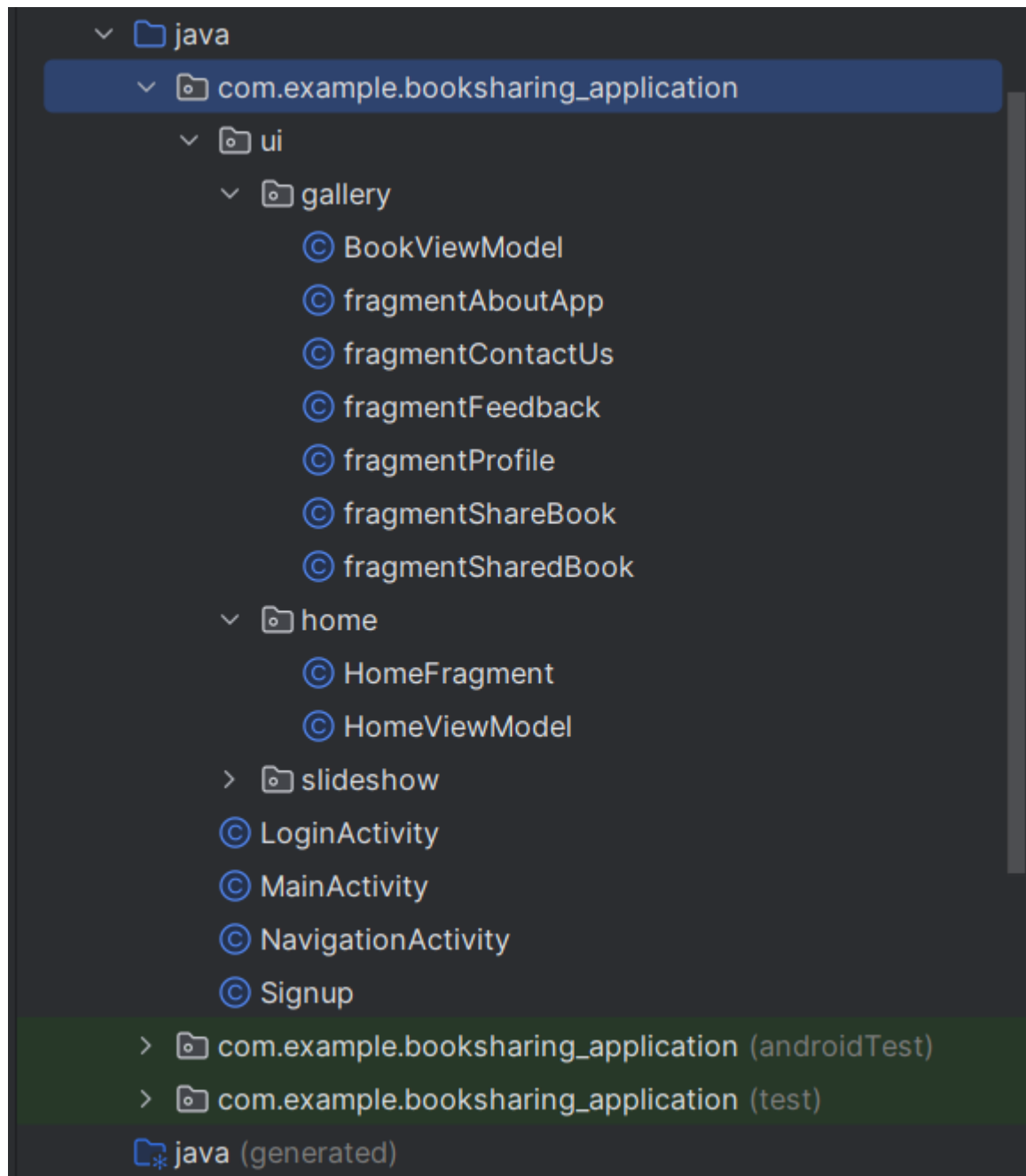
- Users without access to technology or internet connectivity may be excluded from participating.

Project Structure:

XML Files:

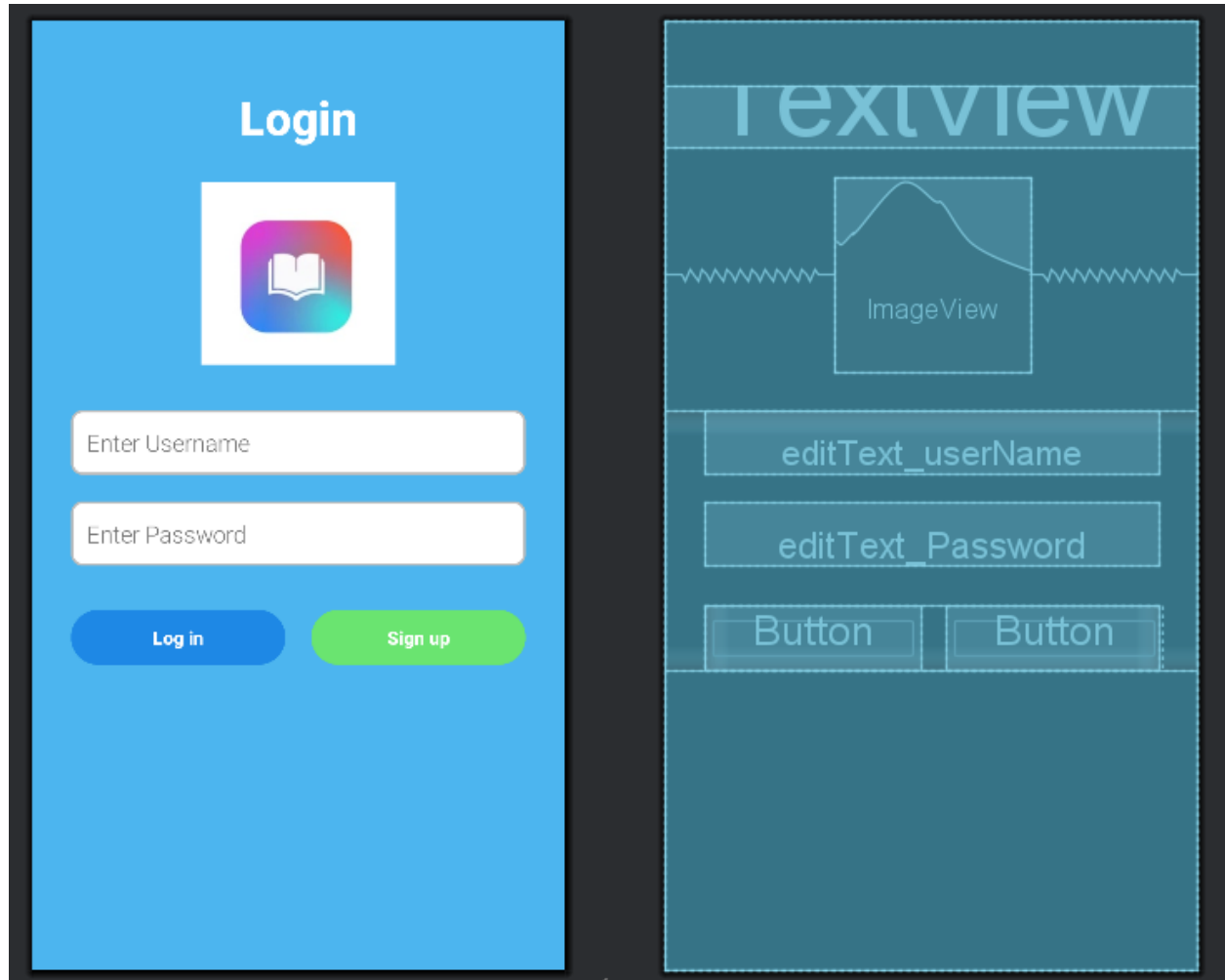


Java Files:

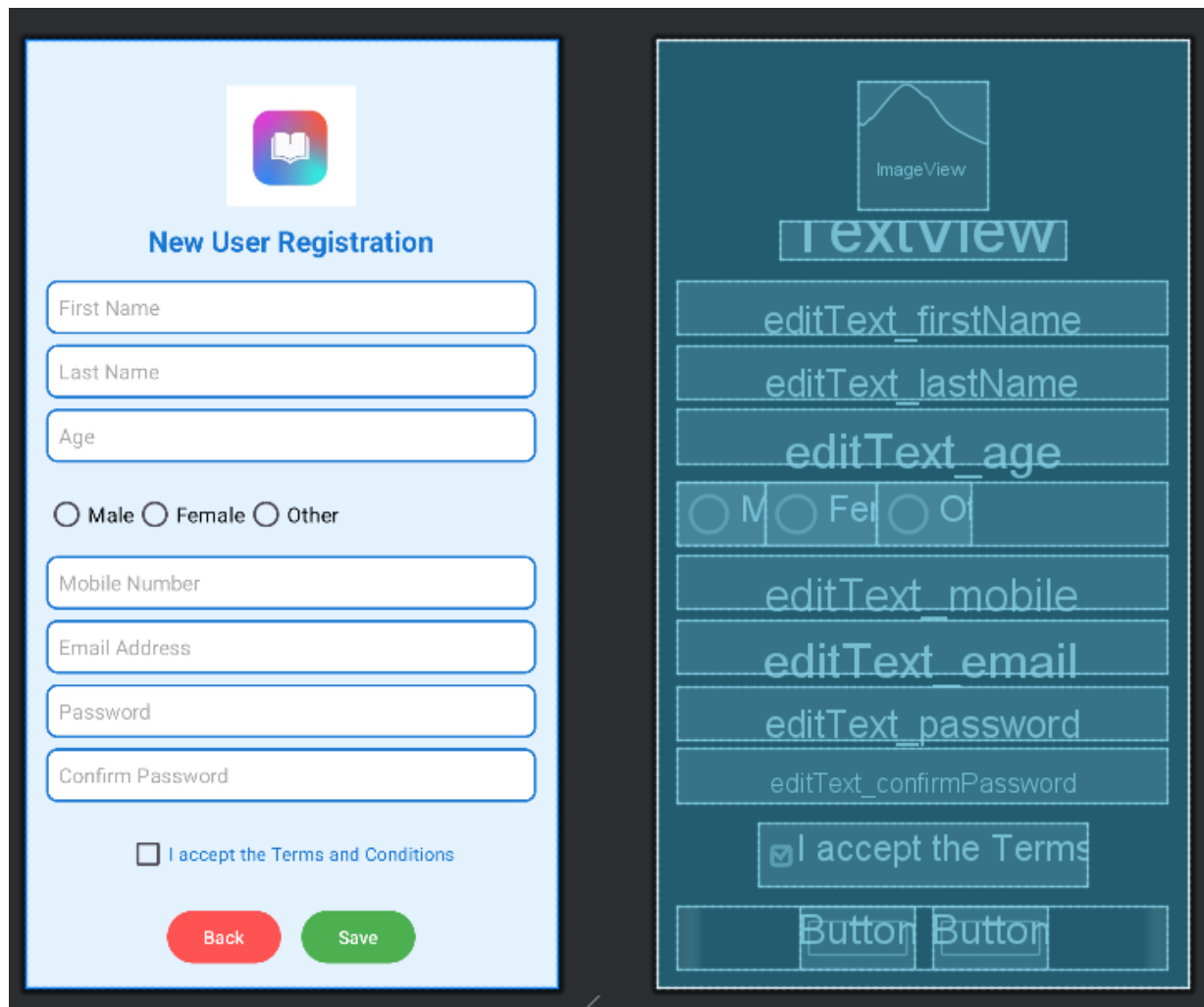


Layouts:

Activity_login:



Activity_signup:



The image displays a 'New User Registration' form and its corresponding Android Studio UI representation. The form is divided into two panels: a light blue user interface on the left and a dark blue Android Studio layout on the right.

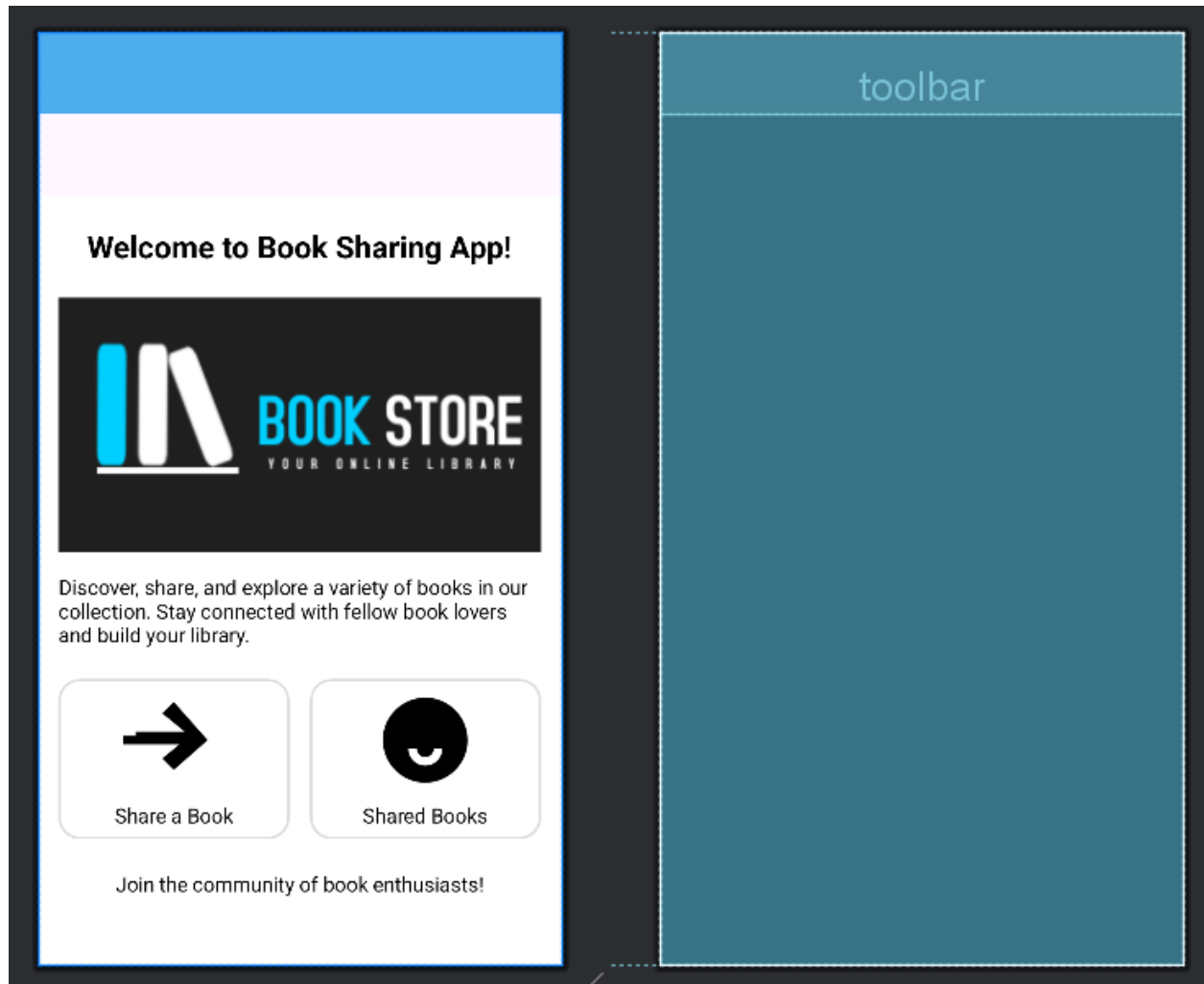
Form Fields and Elements:

- Header:** A logo featuring a book icon inside a colorful square.
- Title:** 'New User Registration'.
- Input Fields:**
 - First Name
 - Last Name
 - Age
 - Mobile Number
 - Email Address
 - Password
 - Confirm Password
- Gender Selection:** Radio buttons for Male, Female, and Other.
- Terms and Conditions:** A checkbox labeled 'I accept the Terms and Conditions'.
- Buttons:** A red 'Back' button and a green 'Save' button.

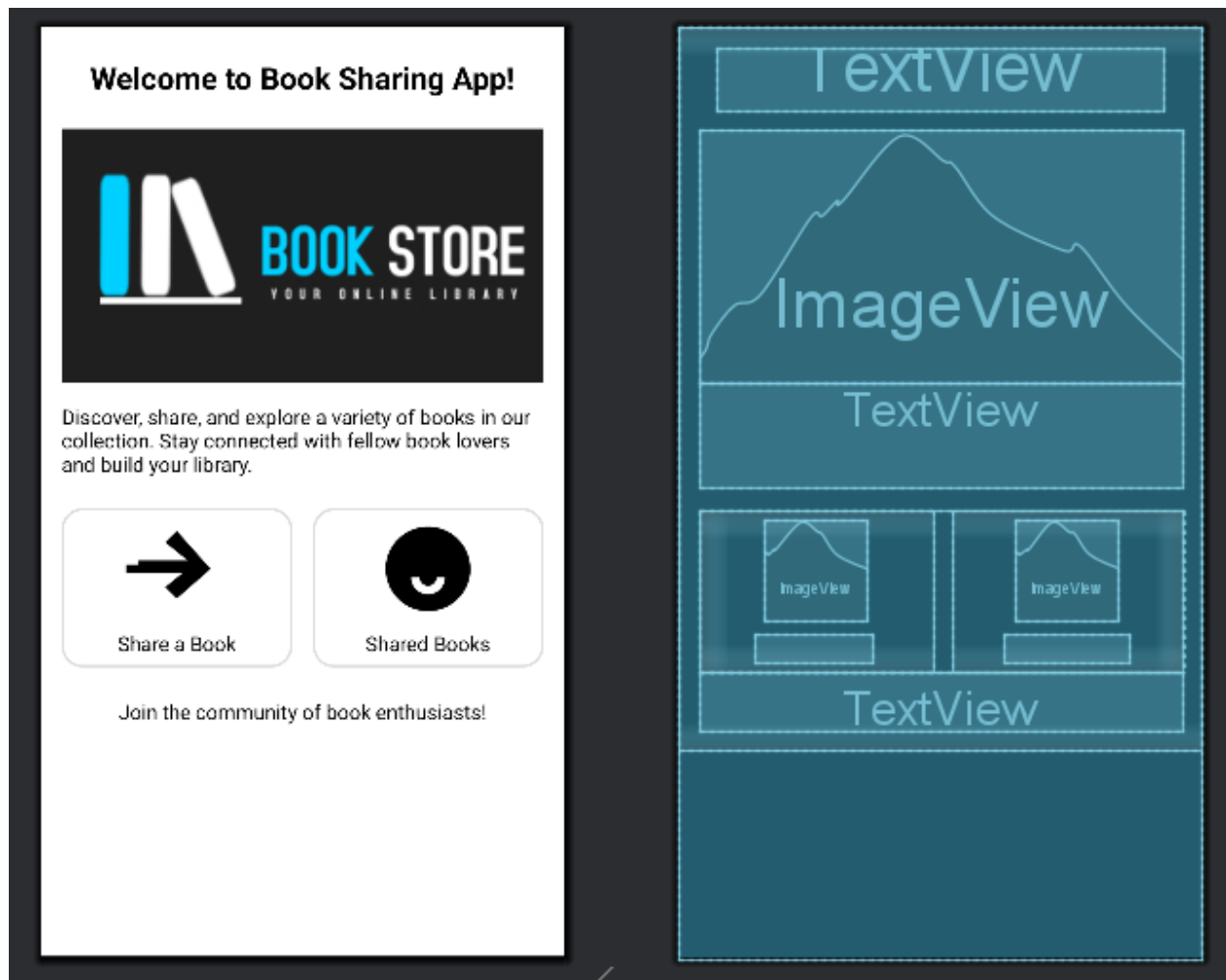
Android Studio Representation:

- ImageView:** The logo is represented by an `ImageView` widget.
- TextView:** The title 'New User Registration' is represented by a `TextView` widget.
- EditText Widgets:** Each input field is represented by an `EditText` widget with labels like `editText_firstName`, `editText_lastName`, `editText_age`, `editText_mobile`, `editText_email`, `editText_password`, and `editText_confirmPassword`.
- Radio Buttons:** The gender selection is represented by `RadioGroup` widgets with labels `radio_male`, `radio_female`, and `radio_other`.
- Checkbox:** The terms and conditions checkbox is represented by a `CheckBox` widget with the label `I accept the Terms`.
- Buttons:** The 'Back' and 'Save' buttons are represented by `Button` widgets.

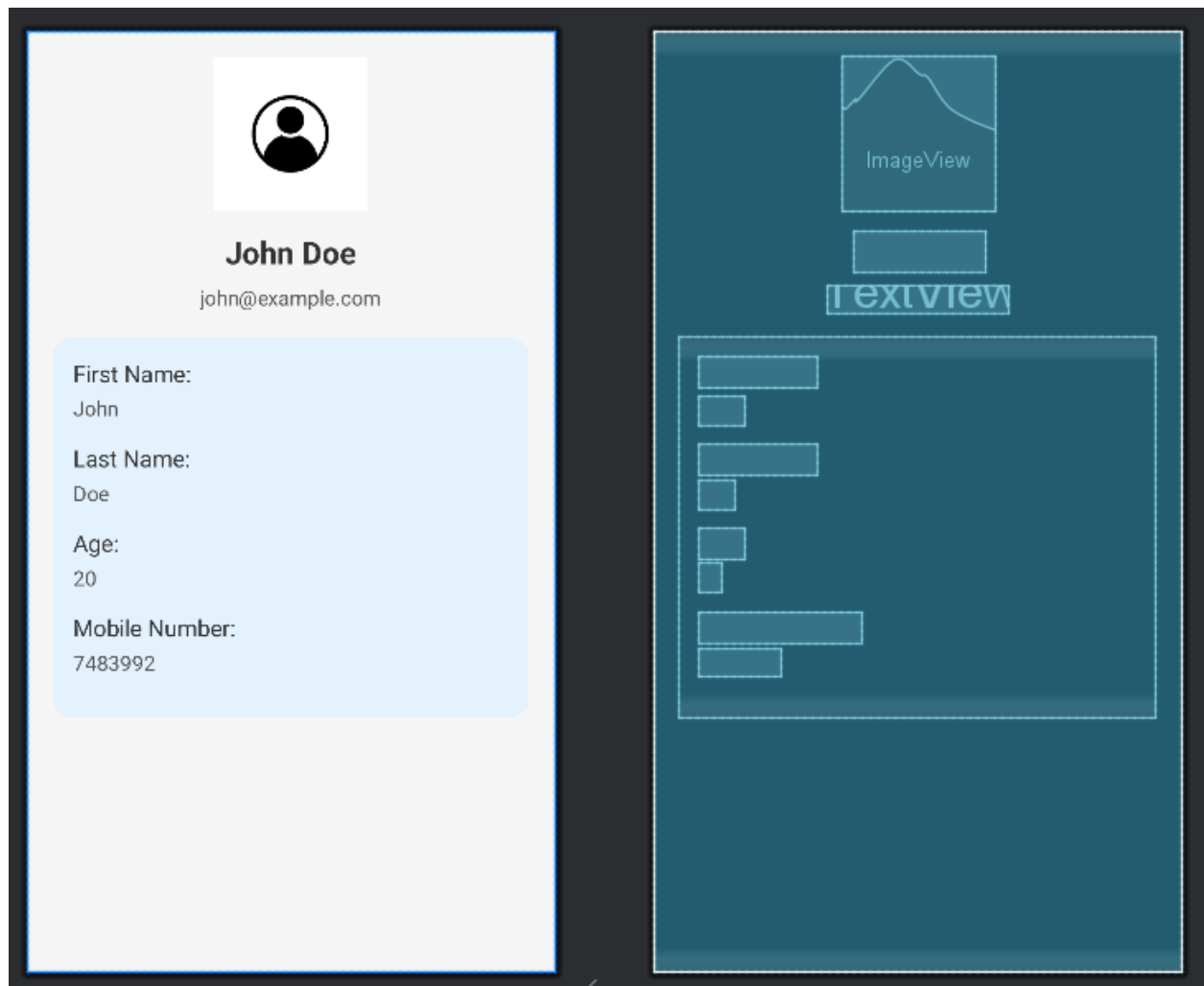
Activity_main:



Fragment_home:



Fragment_profile:



Fragment_sharebook:

The image displays a mobile application fragment titled "Share a Book". The design is shown on the left, and the corresponding XML code is on the right.

Design: The fragment has a light purple background. At the top, the title "Share a Book" is centered. Below it are two text input fields: "Enter Book Title" and "Enter Author Name". At the bottom, there is a red rounded button labeled "Share Book".

Code: The XML code defines the layout structure. It includes a `TextView` for the title, two `EditText` views for the inputs, and a `Button` at the bottom. The inputs are identified by the IDs `bookTitleInput` and `bookAuthorInput`.

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout
    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="@color/purple_500"
    tools:context="com.example.sharebook.MainActivity">

    <android.support.design.widget.AppBarLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="@color/purple_500">

        <android.support.design.widget.Toolbar
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:background="@color/purple_500"
            android:title="Share a Book"
            android:titleTextColor="@color/white"/>

    </android.support.design.widget.AppBarLayout>

    <android.support.design.widget.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|right"
        android:background="@color/red"
        android:padding="16dp"
        android:text="Share Book"
        android:textColor="@color/white"/>

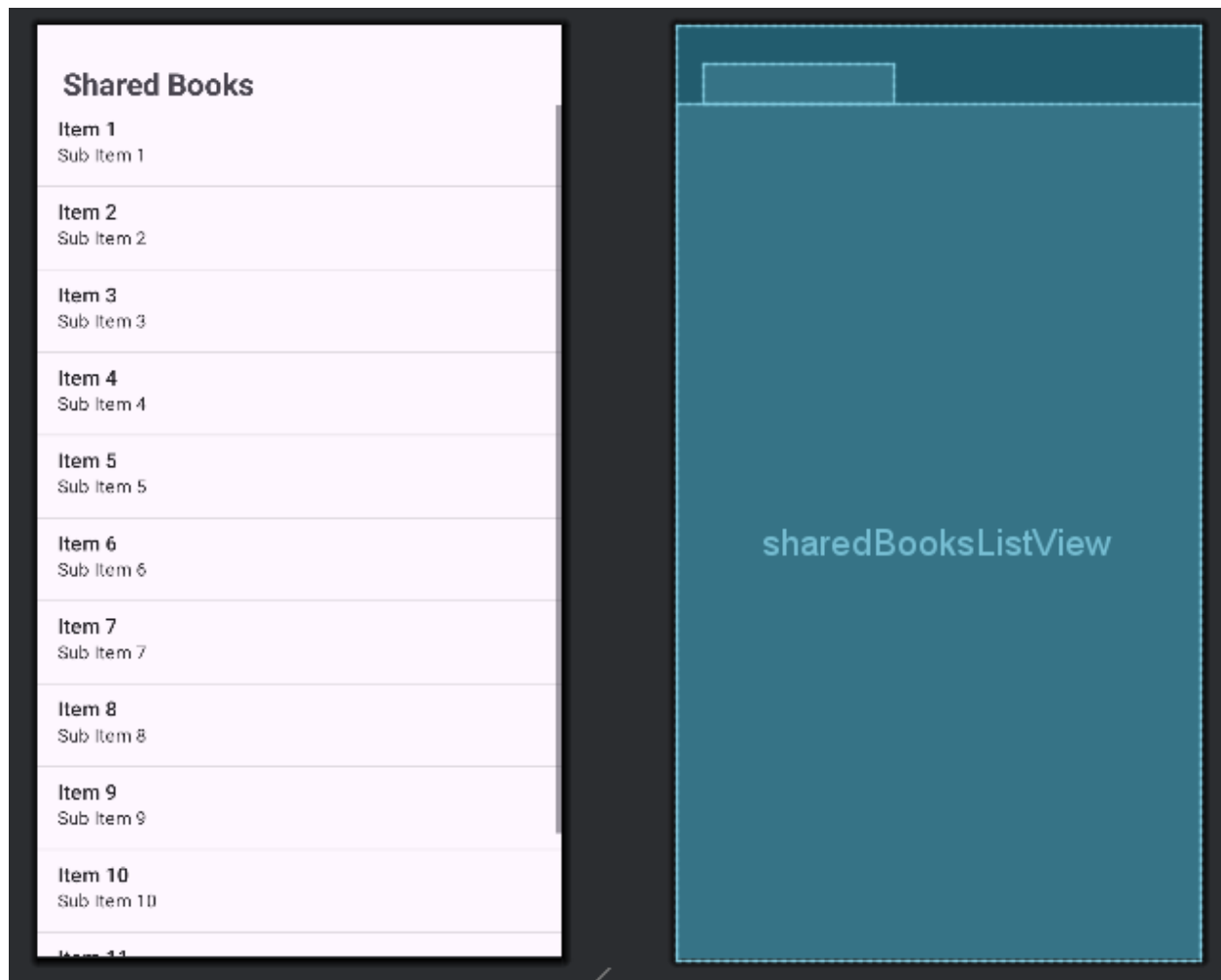
    <TextView
        android:id="@+id/bookTitleInput"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="@color/white"
        android:padding="10dp"
        android:text="Enter Book Title"/>

    <TextView
        android:id="@+id/bookAuthorInput"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="@color/white"
        android:padding="10dp"
        android:text="Enter Author Name"/>

    <Button
        android:id="@+id/button"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="@color/red"
        android:padding="10dp"
        android:text="Share Book"/>

</android.support.design.widget.CoordinatorLayout>
```

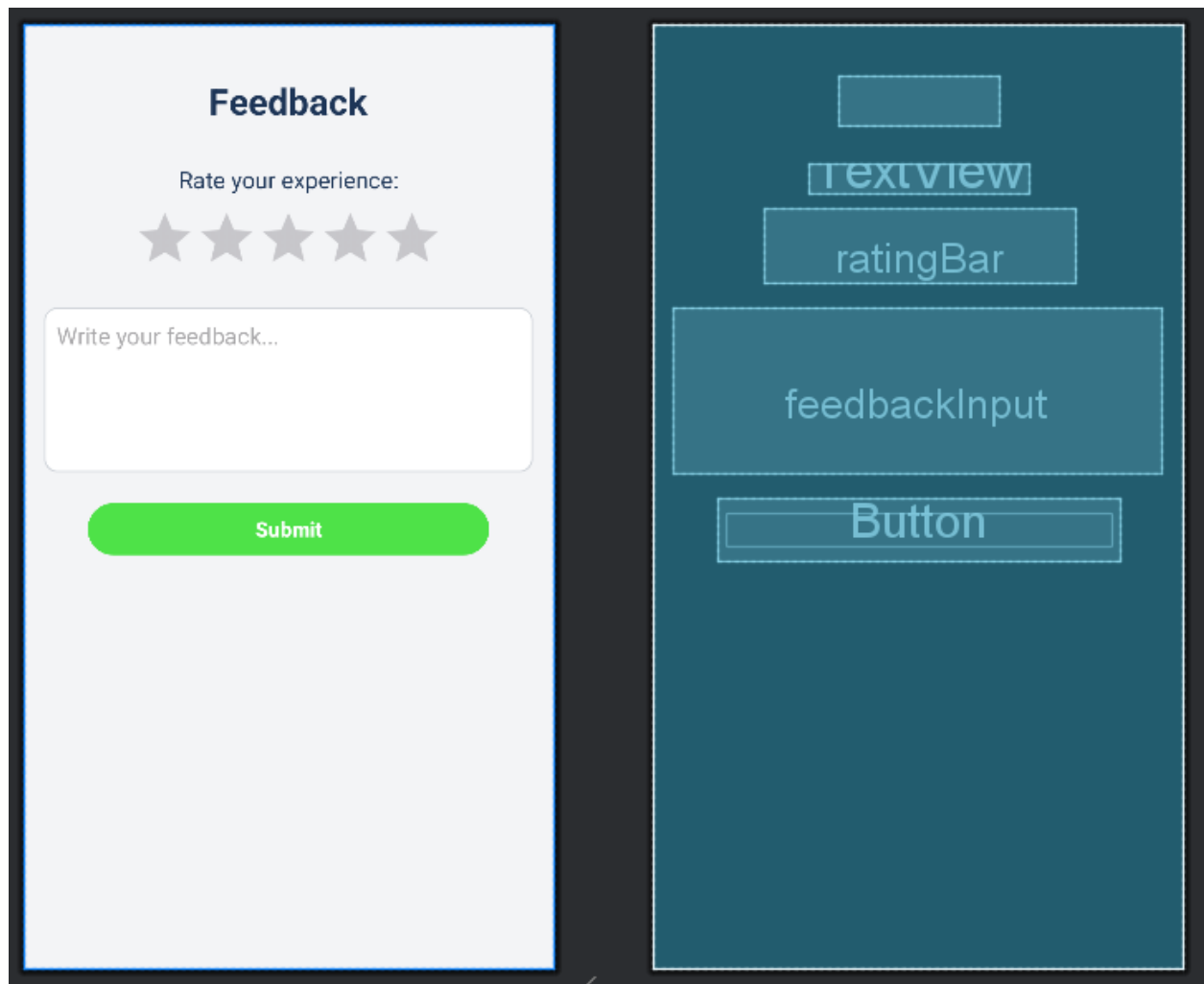
Fragment_sharedbook:



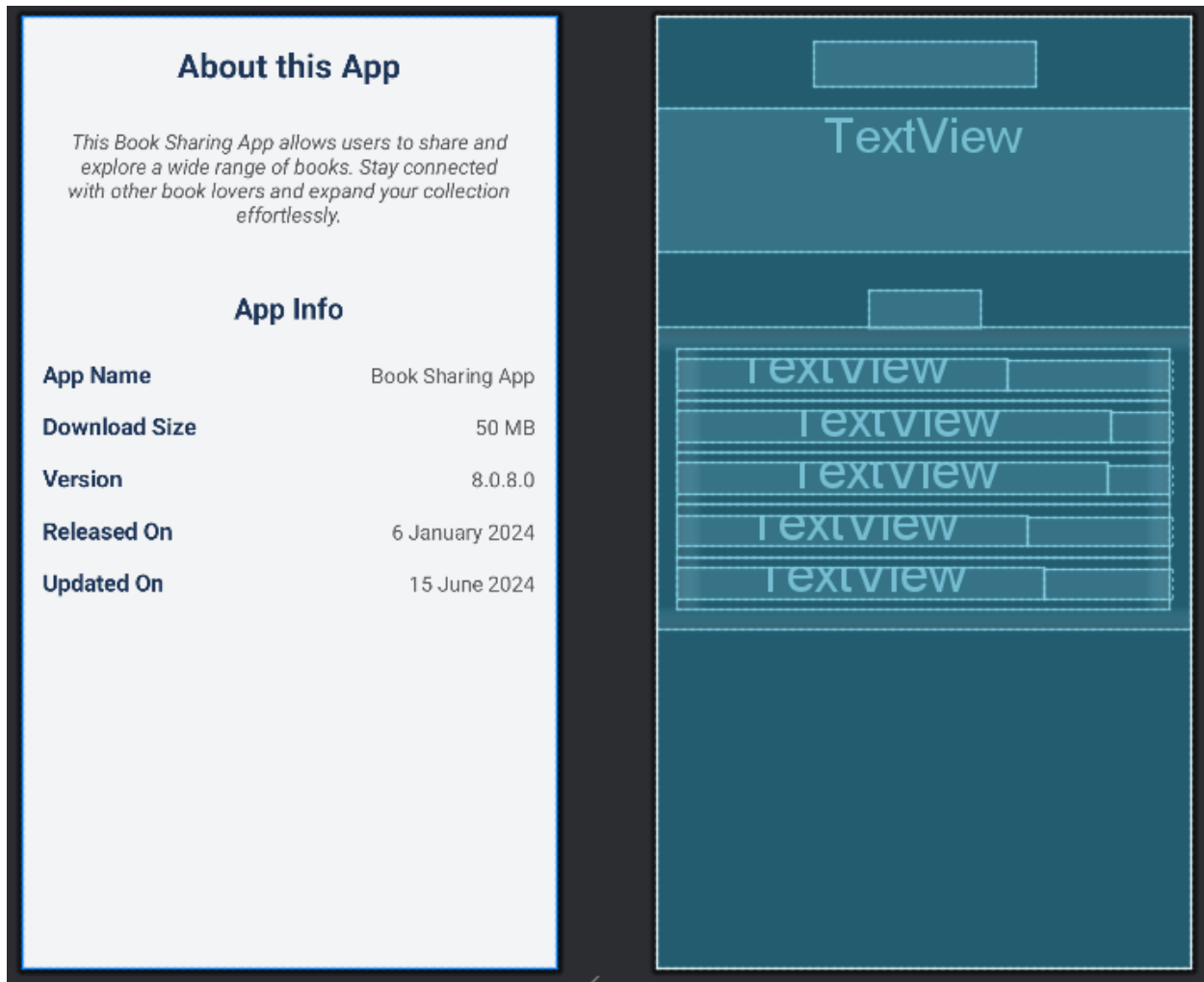
Fragment_contactus:

The image displays a mobile application contact form and its corresponding Android Studio layout. The UI design on the left is a light gray card titled "Contact Us". It features an email icon and address "support@bookshare.com", a phone number input field with a green "Call" button, and text input fields for "Your Name", "Your Email", and "Your Message", followed by a large green "Submit" button. The Android Studio layout on the right, with a dark blue background, shows the visual hierarchy of these elements. It includes a top bar, a "TextView" for the email, a "dialInput" field next to a "Button" for calling, and stacked "nameInput", "emailInput", and "messageInput" fields, each followed by a "Button" for submission.

Fragment_feedback:



Fragment_aboutapp:



Xml codes:

Activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.drawerlayout.widget.DrawerLayout
    android:id="@+id/drawer_layout"
    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"
    tools:context=".MainActivity">

    <!-- Main Content Layout -->
    <androidx.constraintlayout.widget.ConstraintLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent">
```

```

<!-- Toolbar -->
<androidx.appcompat.widget.Toolbar
    android:id="@+id/toolbar"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="#4DADED"
    android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"
    android:title="My App"
    android:titleTextColor="@android:color/white"
    tools:ignore="MissingConstraints" />

<!-- Navigation Host Fragment -->
<fragment
    android:id="@+id/nav_host_fragment"
    android:name="androidx.navigation.fragment.NavHostFragment"
    android:layout_width="match_parent"
    android:layout_height="0dp"
    android:layout_marginTop="?attr/actionBarSize"
    app:layout_constraintTop_toBottomOf="@id/toolbar"
    app:layout_constraintBottom_toBottomOf="parent"
    app:navGraph="@navigation/mobile_navigation"
    app:defaultNavHost="true" />
</androidx.constraintlayout.widget.ConstraintLayout>

<!-- Navigation Drawer -->
<com.google.android.material.navigation.NavigationView
    android:id="@+id/nav_view"
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_gravity="start"
    app:headerLayout="@layout/nav_header_navigation"
    app:menu="@menu/activity_main_drawer" />

</androidx.drawerlayout.widget.DrawerLayout>

```

Activity_login.xml:

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#F5F5F5"
    tools:context=".MainActivity">

    <!-- Main Container -->
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:background="#4CB5EF">

        <!-- Title Text -->

```



```

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="50dp"
    android:text="Login"
    android:textAlignment="center"
    android:textSize="36sp"
    android:textColor="#FFFFFF"
    android:textStyle="bold"
    android:fontFamily="sans-serif-medium" />

<!-- Logo -->
<ImageView
    android:layout_width="150dp"
    android:layout_height="150dp"
    android:src="@drawable/logo"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="120dp"
    android:contentDescription="Login Icon" />

<!-- Input Fields Container -->
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="300dp"
    android:orientation="vertical"
    android:paddingHorizontal="30dp">

    <!-- Username Field -->
    <EditText
        android:id="@+id/editText_userName"
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:hint="Enter Username"
        android:background="@drawable/border"
        android:padding="12dp"
        android:layout_marginBottom="20dp"
        android:fontFamily="sans-serif-light"
        android:inputType="text"
        android:textColorHint="#757575" />

    <!-- Password Field -->
    <EditText
        android:id="@+id/editText_Password"
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:hint="Enter Password"
        android:background="@drawable/border"
        android:padding="12dp"
        android:layout_marginBottom="30dp"
        android:fontFamily="sans-serif-light"
        android:inputType="textPassword"
        android:textColorHint="#757575" />

    <!-- Buttons Container -->
    <LinearLayout
        android:layout_width="match_parent"

```

```

        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:gravity="center"
        android:weightSum="2">

        <!-- Login Button -->
        <Button
            android:id="@+id/login_btn"
            android:layout_width="0dp"
            android:layout_height="50dp"
            android:layout_weight="1"
            android:text="Log in"
            android:backgroundTint="#1E88E5"
            android:textColor="#FFFFFF"
            android:textStyle="bold"
            android:fontFamily="sans-serif-medium"
            android:layout_marginEnd="10dp" />

        <!-- New User Button -->
        <Button
            android:id="@+id/newUser_btn"
            android:layout_width="0dp"
            android:layout_height="50dp"
            android:layout_weight="1"
            android:text="Sign up"
            android:backgroundTint="#6AE470"
            android:textColor="#FFFFFF"
            android:textStyle="bold"
            android:fontFamily="sans-serif-medium"
            android:layout_marginStart="10dp" />
    </LinearLayout>
</LinearLayout>
</RelativeLayout>
</androidx.constraintlayout.widget.ConstraintLayout>

```

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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="16dp"
    android:background="#E3F2FD"
    tools:context=".Signup">

    <!-- Logo -->
    <ImageView
        android:id="@+id/imageView_logo"
        android:layout_width="100dp"
        android:layout_height="100dp"
        app:srcCompat="@drawable/logo"
    >

```

```

        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:contentDescription="App Logo"
        android:layout_marginTop="16dp" />

<!-- Title -->
<TextView
    android:id="@+id/textView_title"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="New User Registration"
    android:textSize="22sp"
    android:textStyle="bold"
    android:textColor="#1976D2"
    app:layout_constraintTop_toBottomOf="@id/imageView_logo"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="8dp" />

<!-- First Name -->
<EditText
    android:id="@+id/editText_firstName"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:hint="First Name"
    android:padding="10dp"
    android:background="@drawable/edittext_border"
    android:textColor="#000000"
    android:textSize="16sp"
    app:layout_constraintTop_toBottomOf="@id/textView_title"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="16dp" />

<!-- Last Name -->
<EditText
    android:id="@+id/editText_lastName"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:hint="Last Name"
    android:padding="10dp"
    android:background="@drawable/edittext_border"
    android:textColor="#000000"
    android:textSize="16sp"
    app:layout_constraintTop_toBottomOf="@id/editText_firstName"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="8dp" />

<!-- Age -->
<EditText
    android:id="@+id/editText_age"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:hint="Age"
    android:inputType="number"

```

```

        android:padding="10dp"
        android:background="@drawable/edittext_border"
        android:textColor="#000000"
        android:textSize="16sp"
        app:layout_constraintTop_toBottomOf="@id/editText_lastName"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="8dp" />

<!-- Gender Radio Group -->
<RadioGroup
    android:id="@+id/radioGroup_gender"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    app:layout_constraintTop_toBottomOf="@id/editText_age"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:orientation="horizontal"
    android:layout_marginTop="16dp">

    <RadioButton
        android:id="@+id/radioButton_male"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Male"
        android:textColor="#000000"
        android:textSize="16sp" />

    <RadioButton
        android:id="@+id/radioButton_female"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Female"
        android:textColor="#000000"
        android:textSize="16sp" />

    <RadioButton
        android:id="@+id/radioButton_other"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Other"
        android:textColor="#000000"
        android:textSize="16sp" />
</RadioGroup>

<!-- Mobile Number -->
<EditText
    android:id="@+id/editText_mobile"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:hint="Mobile Number"
    android:inputType="phone"
    android:padding="10dp"
    android:background="@drawable/edittext_border"
    android:textColor="#000000"
    android:textSize="16sp"
    app:layout_constraintTop_toBottomOf="@id/radioGroup_gender"

```

```

        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="8dp" />

<!-- Email -->
<EditText
    android:id="@+id/editText_email"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:hint="Email Address"
    android:inputType="textEmailAddress"
    android:padding="10dp"
    android:background="@drawable/edittext_border"
    android:textColor="#000000"
    android:textSize="16sp"
    app:layout_constraintTop_toBottomOf="@id/editText_mobile"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="8dp" />

<!-- Password -->
<EditText
    android:id="@+id/editText_password"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:hint="Password"
    android:inputType="textPassword"
    android:padding="10dp"
    android:background="@drawable/edittext_border"
    android:textColor="#000000"
    android:textSize="16sp"
    app:layout_constraintTop_toBottomOf="@id/editText_email"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="8dp" />

<!-- Confirm Password -->
<EditText
    android:id="@+id/editText_confirmPassword"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:hint="Confirm Password"
    android:inputType="textPassword"
    android:padding="10dp"
    android:background="@drawable/edittext_border"
    android:textColor="#000000"
    android:textSize="16sp"
    app:layout_constraintTop_toBottomOf="@id/editText_password"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="8dp" />

<!-- Checkbox for Terms and Conditions -->
<CheckBox
    android:id="@+id/checkBox_terms"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"

```

```

        android:text="I accept the Terms and Conditions"
        android:textColor="#1976D2"
        app:layout_constraintTop_toBottomOf="@id/editText_confirmPassword"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="16dp" />

<!-- Buttons -->
<LinearLayout
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    app:layout_constraintTop_toBottomOf="@id/checkbox_terms"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:gravity="center"
    android:layout_marginTop="16dp">

    <Button
        android:id="@+id/button_back"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Back"
        android:padding="10dp"
        android:textColor="#FFFFFF"
        android:backgroundTint="#FF5252" />

    <Button
        android:id="@+id/button_save"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Save"
        android:padding="10dp"
        android:textColor="#FFFFFF"
        android:layout_marginStart="16dp"
        android:backgroundTint="#4CAF50" />

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

```

Mobile_navigation.xml:

```

<?xml version="1.0" encoding="utf-8"?>
<navigation xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/mobile_navigation"
    app:startDestination="@+id/nav_home">

    <fragment
        android:id="@+id/nav_home"

        android:name="com.example.booksharing_application.ui.home.HomeFragment"
        android:label="@string/menu_home"
        tools:layout="@layout/fragment_home" />

    <fragment

```

```

        android:id="@+id/nav_profile"

        android:name="com.example.booksharing_application.ui.gallery.fragmentProfile"
        android:label="Profile"
        tools:layout="@layout/fragment_profile" />

        <fragment
            android:id="@+id/nav_sharebook"

            android:name="com.example.booksharing_application.ui.gallery.fragmentShareBook"
            android:label="@string/menu_sharebook"
            tools:layout="@layout/fragment_sharebook" />

        <fragment
            android:id="@+id/nav_sharedbooks"

            android:name="com.example.booksharing_application.ui.gallery.fragmentSharedBook"
            android:label="@string/menu_sharedbook"
            tools:layout="@layout/fragment_sharedbook" />

        <fragment
            android:id="@+id/nav_contactUs"

            android:name="com.example.booksharing_application.ui.gallery.fragmentContactUs"
            android:label="@string/menu_contactUs"
            tools:layout="@layout/fragment_contactus" />

        <fragment
            android:id="@+id/nav_feedback"

            android:name="com.example.booksharing_application.ui.gallery.fragmentFeedback"
            android:label="@string/menu_feedback"
            tools:layout="@layout/fragment_feedback" />

        <fragment
            android:id="@+id/nav_aboutApp"

            android:name="com.example.booksharing_application.ui.gallery.fragmentAboutApp"
            android:label="@string/menu_aboutapp"
            tools:layout="@layout/fragment_aboutapp" />

    </navigation>

```

Activity_main_drawer:

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
      xmlns:tools="http://schemas.android.com/tools"
      tools:showIn="navigation_view">

    <group android:checkableBehavior="single">
        <item
            android:id="@+id/nav_home"
            android:icon="@drawable/ic_home"
            android:title="@string/menu_home" />
        <item
            android:id="@+id/nav_profile"
            android:icon="@drawable/ic_profile"
            android:title="Profile" />
        <item
            android:id="@+id/nav_sharebook"
            android:icon="@drawable/ic_share_book"
            android:title="Share Book" />
        <item
            android:id="@+id/nav_sharedbooks"
            android:icon="@drawable/ic_shared_books"
            android:title="Shared Books" />
        <item
            android:id="@+id/nav_contactUs"
            android:icon="@drawable/ic_contact_us"
            android:title="Contact Us" />
        <item
            android:id="@+id/nav_feedback"
            android:icon="@drawable/ic_feedback"
            android:title="Feedback" />
        <item
            android:id="@+id/nav_aboutApp"
            android:icon="@drawable/ic_about_app"
            android:title="About this app" />
        <item
            android:id="@+id/nav_logout"
            android:icon="@drawable/ic_logout"
            android:title="Logout"/>
    </group>
</menu>
```

Nav_header_navigation.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="@dimen/nav_header_height"
    android:background="#4DADED"
    android:gravity="bottom"
    android:orientation="vertical"
    android:paddingLeft="@dimen/activity_horizontal_margin">
```



```

        android:paddingTop="@dimen/activity_vertical_margin"
        android:paddingRight="@dimen/activity_horizontal_margin"
        android:paddingBottom="@dimen/activity_vertical_margin"
        android:theme="@style/ThemeOverlay.AppCompat.Dark">

        <ImageView
            android:id="@+id/imageView"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:contentDescription="@string/nav_header_desc"
            android:paddingTop="1dp"
            app:srcCompat="@drawable/ic_menu_camera" />

        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:paddingTop="@dimen/nav_header_vertical_spacing"
            android:text="@string/nav_header_title"
            android:textAppearance="@style/TextAppearance.AppCompat.Body1" />

        <TextView
            android:id="@+id/textView"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/nav_header_subtitle" />
    </LinearLayout>

```

Activity_navigation.xml:

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.drawerlayout.widget.DrawerLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/drawer_layout"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true"
    tools:openDrawer="start">

    <include
        android:id="@+id/app_bar_navigation"
        layout="@layout/app_bar_navigation"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />

    <com.google.android.material.navigation.NavigationView
        android:id="@+id/nav_view"
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        android:layout_gravity="start"
        android:fitsSystemWindows="true"
        app:headerLayout="@layout/nav_header_navigation"
        app:menu="@menu/activity_main_drawer" />
</androidx.drawerlayout.widget.DrawerLayout>

```

App_bar_navigation:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    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"
    tools:context=".Navigation">

    <com.google.android.material.appbar.AppBarLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:theme="@style/Theme.BookSharing_Application.AppBarOverlay">

        <androidx.appcompat.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            android:background="?attr/colorPrimary"

app:popupTheme="@style/Theme.BookSharing_Application.PopupOverlay" />

        </com.google.android.material.appbar.AppBarLayout>

        <include layout="@layout/content_navigation" />

        <com.google.android.material.floatingactionbutton.FloatingActionButton
            android:id="@+id/fab"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="bottom|end"
            android:layout_marginEnd="@dimen/fab_margin"
            android:layout_marginBottom="16dp"
            app:srcCompat="@android:drawable/ic_dialog_email" />

    </androidx.coordinatorlayout.widget.CoordinatorLayout>
```

Content_navigation.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"
    app:layout_behavior="@string/appbar_scrolling_view_behavior"
    tools:showIn="@layout/app_bar_navigation">

    <fragment
        android:id="@+id/nav_host_fragment_content_navigation"
        android:name="androidx.navigation.fragment.NavHostFragment"
        android:layout_width="match_parent"
```

```

        android:layout_height="match_parent"
        app:defaultNavHost="true"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:navGraph="@navigation/mobile_navigation" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Fragment_home.xml:

```

<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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="@color/white"
    tools:context=".ui.home.HomeFragment">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:padding="16dp">

        <!-- Title -->
        <TextView
            android:id="@+id/homeTitle"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Welcome to Book Sharing App!"
            android:textColor="@color/black"
            android:textSize="24sp"
            android:textStyle="bold"
            android:gravity="center"
            android:layout_gravity="center_horizontal"
            android:padding="8dp" />

        <!-- Featured Image -->
        <ImageView
            android:id="@+id/featuredImage"
            android:layout_width="match_parent"
            android:layout_height="200dp"
            android:layout_marginTop="16dp"
            android:scaleType="centerCrop"
            android:src="@drawable/sample_bookshelf" />

        <!-- Description -->
        <TextView
            android:id="@+id/homeDescription"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Discover, share, and explore a variety of books in
our collection. Stay connected with fellow book lovers and build your
library."
            android:textColor="@color/black"

```

```

        android:textSize="16sp"
        android:paddingTop="16dp"
        android:paddingBottom="8dp" />

<!-- Sections -->
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_marginTop="16dp"
    android:gravity="center">

    <!-- Share a Book -->
    <LinearLayout
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:padding="8dp"
        android:gravity="center"
        android:background="@drawable/rounded_border">

        <ImageView
            android:id="@+id/shareBook"
            android:layout_width="80dp"
            android:layout_height="80dp"
            android:src="@drawable/ic_share_book"
            android:contentDescription="Share a Book" />

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Share a Book"
            android:textColor="@color/black"
            android:textSize="16sp"
            android:layout_marginTop="8dp" />
    </LinearLayout>

    <!-- View Shared Books -->
    <LinearLayout
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:orientation="vertical"
        android:padding="8dp"
        android:gravity="center"
        android:layout_marginStart="16dp"
        android:background="@drawable/rounded_border">

        <ImageView
            android:id="@+id/sharedBooks"
            android:layout_width="80dp"
            android:layout_height="80dp"
            android:src="@drawable/ic_shared_books"
            android:contentDescription="View Shared Books" />

        <TextView

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Shared Books"
        android:textColor="@color/black"
        android:textSize="16sp"
        android:layout_marginTop="8dp" />
    </LinearLayout>
</LinearLayout>

<!-- Additional Section -->
<TextView
    android:id="@+id/extraInfo"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Join the community of book enthusiasts!"
    android:textColor="@color/black"
    android:textSize="16sp"
    android:paddingTop="24dp"
    android:gravity="center" />
</LinearLayout>
</ScrollView>

```

Fragment_profile.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:orientation="vertical"
    android:padding="20dp"
    android:background="#f5f5f5">

    <!-- Profile Image Section -->
    <ImageView
        android:id="@+id/profileImage"
        android:layout_width="120dp"
        android:layout_height="120dp"
        android:src="@drawable/login"
        android:layout_gravity="center"
        android:scaleType="centerCrop"
        android:layout_marginBottom="16dp"
        android:background="@drawable/profile_image_border"
        android:contentDescription="Profile Image" />

    <!-- User Name -->
    <TextView
        android:id="@+id/userName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="John Doe"
        android:textSize="24sp"
        android:textColor="#333333"
        android:layout_gravity="center"
        android:textStyle="bold"
        android:layout_marginBottom="8dp" />

```

```

<!-- User Email -->
<TextView
    android:id="@+id/userEmail"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="john@example.com"
    android:textSize="16sp"
    android:textColor="#555555"
    android:layout_gravity="center"
    android:layout_marginBottom="20dp" />

<!-- Profile Details Section -->
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:background="@drawable/rounded_background"
    android:padding="16dp">

    <!-- First Name -->
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="First Name:"
        android:textSize="18sp"
        android:textColor="#333333"
        android:layout_marginBottom="4dp" />

    <TextView
        android:id="@+id/userFirstName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="John"
        android:textSize="16sp"
        android:textColor="#555555"
        android:layout_marginBottom="16dp" />

    <!-- Last Name -->
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Last Name:"
        android:textSize="18sp"
        android:textColor="#333333"
        android:layout_marginBottom="4dp" />

    <TextView
        android:id="@+id/userLastName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Doe"
        android:textSize="16sp"
        android:textColor="#555555"
        android:layout_marginBottom="16dp" />

    <!-- Age -->
    <TextView

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Age:"
        android:textSize="18sp"
        android:textColor="#333333"
        android:layout_marginBottom="4dp" />

<TextView
    android:id="@+id/userAge"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="20"
    android:textSize="16sp"
    android:textColor="#555555"
    android:layout_marginBottom="16dp" />

<!-- Mobile Number -->
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Mobile Number:"
    android:textSize="18sp"
    android:textColor="#333333"
    android:layout_marginBottom="4dp" />

<TextView
    android:id="@+id/userMobile"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="7483992"
    android:textSize="16sp"
    android:textColor="#555555"
    android:layout_marginBottom="16dp" />
</LinearLayout>

</LinearLayout>

```

Fragment_sharebook.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:padding="16dp"
    tools:context=".ShareBook">

    <!-- Title TextView -->
    <TextView
        android:id="@+id/shareBookTitle"

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Share a Book"
        android:textSize="28sp"
        android:textStyle="bold"
        android:textColor="#333"

        android:layout_marginTop="40dp"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintHorizontal_bias="0.5"/>

<!-- Book Title Input -->
<EditText
    android:id="@+id/bookTitleInput"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:hint="Enter Book Title"
    android:padding="12dp"
    android:background="@drawable/edit_text_bg"
    app:layout_constraintTop_toBottomOf="@id/shareBookTitle"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    android:layout_marginTop="24dp"
    android:layout_marginStart="16dp"
    android:layout_marginEnd="16dp"/>

<!-- Book Author Input -->
<EditText
    android:id="@+id/bookAuthorInput"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:hint="Enter Author Name"
    android:padding="12dp"
    android:background="@drawable/edit_text_bg"
    app:layout_constraintTop_toBottomOf="@id/bookTitleInput"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    android:layout_marginTop="16dp"
    android:layout_marginStart="16dp"
    android:layout_marginEnd="16dp"/>

<!-- Share Book Button -->
<Button
    android:id="@+id/shareBookButton"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:text="Share Book"
    android:textColor="#FFFFFF"
    android:backgroundTint="#0DF005"
    android:layout_marginTop="32dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    android:layout_marginStart="16dp"
    android:layout_marginEnd="16dp"/>

```



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

Fragment_sharedbook.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"
android:layout_width="match_parent"
android:layout_height="match_parent">

    <TextView
        android:id="@+id/sharedBooksTitle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Shared Books"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        android:layout_marginTop="30dp"
        android:layout_marginStart="20dp" />

    <ListView
        android:id="@+id/sharedBooksListView"
        android:layout_width="0dp"
        android:layout_height="0dp"
        app:layout_constraintTop_toBottomOf="@id/sharedBooksTitle"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintBottom_toBottomOf="parent" />

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

Fragment_contactus.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="#F3F4F6"
tools:context=".ContactUs">

    <!-- Title -->
    <TextView
        android:id="@+id/contactUsTitle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```

        android:text="Contact Us"
        android:textSize="28sp"
        android:textStyle="bold"
        android:textColor="#1D3557"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="40dp" />

<!-- Contact Email -->
<LinearLayout
    android:id="@+id/emailContainer"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:padding="10dp"
    android:background="@drawable/contact_card_background"
    app:layout_constraintTop_toBottomOf="@id/contactUsTitle"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="20dp"
    android:layout_marginHorizontal="16dp">

    <ImageView
        android:id="@+id/emailIcon"
        android:layout_width="40dp"
        android:layout_height="40dp"
        android:src="@drawable/ic_email"
        android:contentDescription="Email Icon"
        android:tint="#1D3557" />

    <TextView
        android:id="@+id/contactEmail"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="support@bookshare.com"
        android:textSize="16sp"
        android:textColor="#1D3557"
        android:layout_marginStart="10dp"
        android:gravity="center_vertical" />
</LinearLayout>

<!-- Dial Number Section -->
<LinearLayout
    android:id="@+id/dialContainer"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:padding="10dp"
    android:background="@drawable/contact_card_background"
    app:layout_constraintTop_toBottomOf="@id/emailContainer"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="15dp"
    android:layout_marginHorizontal="16dp">

    <EditText

```

```

        android:id="@+id/dialInput"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:hint="Enter phone number"
        android:inputType="phone"
        android:padding="10dp"
        android:background="@drawable/edittext_background"
        android:textColor="#1D3557"
        android:textSize="16sp" />

<Button
    android:id="@+id/dialButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    android:text="Call"
    android:textColor="#FFFFFF"
    android:backgroundTint="#4EE248" />
</LinearLayout>

<!-- Name Input -->
<EditText
    android:id="@+id/nameInput"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:hint="Your Name"
    android:inputType="textPersonName"
    android:padding="10dp"
    android:background="@drawable/edittext_background"
    app:layout_constraintTop_toBottomOf="@id/dialContainer"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="20dp"
    android:layout_marginHorizontal="16dp" />

<!-- Email Input -->
<EditText
    android:id="@+id/emailInput"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:hint="Your Email"
    android:inputType="textEmailAddress"
    android:padding="10dp"
    android:background="@drawable/edittext_background"
    app:layout_constraintTop_toBottomOf="@id/nameInput"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="15dp"
    android:layout_marginHorizontal="16dp" />

<!-- Message Input -->
<EditText
    android:id="@+id/messageInput"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:hint="Your Message"

```

```

        android:inputType="textMultiLine"
        android:minLines="4"
        android:gravity="top|start"
        android:padding="10dp"
        android:background="@drawable/edittext_background"
        app:layout_constraintTop_toBottomOf="@id/emailInput"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="15dp"
        android:layout_marginHorizontal="16dp" />

<!-- Feedback Button -->
<Button
    android:id="@+id/sendFeedback_btn"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:text="Submit"
    android:textSize="16sp"
    android:textStyle="bold"
    android:textColor="#FFFFFF"
    android:backgroundTint="#4EE248"
    app:layout_constraintTop_toBottomOf="@id/messageInput"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="20dp"
    android:layout_marginHorizontal="50dp" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

Fragment_feedback.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="#F3F4F6">

    <!-- Title -->
    <TextView
        android:id="@+id/feedbackTitle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Feedback"
        android:textSize="28sp"
        android:textStyle="bold"
        android:textColor="#1D3557"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="40dp" />

```

```

<!-- Rating Bar -->
<TextView
    android:id="@+id/ratingPrompt"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Rate your experience:"
    android:textSize="18sp"
    android:textColor="#1D3557"
    app:layout_constraintTop_toBottomOf="@id/feedbackTitle"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="30dp" />

<RatingBar
    android:id="@+id/ratingBar"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:stepSize="0.5"
    android:numStars="5"
    android:rating="0"
    android:layout_marginTop="10dp"
    app:layout_constraintTop_toBottomOf="@id/ratingPrompt"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent" />

<!-- Feedback Input -->
<EditText
    android:id="@+id/feedbackInput"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:hint="Write your feedback..."
    android:inputType="textMultiLine"
    android:minLines="5"
    android:gravity="top|start"
    android:padding="10dp"
    android:background="@drawable/edittext_background"
    app:layout_constraintTop_toBottomOf="@id/ratingBar"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="20dp"
    android:layout_marginHorizontal="16dp" />

<!-- Submit Button -->
<Button
    android:id="@+id/submitFeedbackButton"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:text="Submit"
    android:textSize="16sp"
    android:textStyle="bold"
    android:textColor="#FFFFFF"
    android:backgroundTint="#4EE248"
    app:layout_constraintTop_toBottomOf="@id/feedbackInput"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="20dp"

```

```
        android:layout_marginHorizontal="50dp" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Fragment_aboutapp.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="#F3F4F6">

    <!-- Header Title -->
    <TextView
        android:id="@+id/aboutAppTitle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="About this App"
        android:textSize="26sp"
        android:textStyle="bold"
        android:textColor="#1D3557"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="20dp" />

    <!-- App Description -->
    <TextView
        android:id="@+id/aboutAppDescription"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:text="This Book Sharing App allows users to share and explore
a wide range of books. Stay connected with other book lovers and expand your
collection effortlessly."
        android:textSize="16sp"
        android:textStyle="italic"
        android:textColor="#555555"
        android:gravity="center"
        android:layout_marginTop="15dp"
        android:padding="16dp"
        app:layout_constraintTop_toBottomOf="@id/aboutAppTitle"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent" />

    <!-- Section Title -->
    <TextView
        android:id="@+id/appInfoTitle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="App Info"
        android:textSize="22sp"
        android:textStyle="bold"
```

```

        android:textColor="#1D3557"
        android:layout_marginTop="30dp"
        app:layout_constraintTop_toBottomOf="@id/aboutAppDescription"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent" />

<!-- Info Items -->
<LinearLayout
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:padding="16dp"
    app:layout_constraintTop_toBottomOf="@id/appInfoTitle"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent">

    <!-- App Name -->
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:paddingVertical="8dp">

        <TextView
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="App Name"
            android:textSize="18sp"
            android:textStyle="bold"
            android:textColor="#1D3557" />

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Book Sharing App"
            android:textSize="16sp"
            android:textColor="#555555" />
    </LinearLayout>

    <!-- Download Size -->
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:paddingVertical="8dp">

        <TextView
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="Download Size"
            android:textSize="18sp"
            android:textStyle="bold"
            android:textColor="#1D3557" />

        <TextView

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="50 MB"
        android:textSize="16sp"
        android:textColor="#555555" />
</LinearLayout>

<!-- Version -->
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:paddingVertical="8dp">

    <TextView
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Version"
        android:textSize="18sp"
        android:textStyle="bold"
        android:textColor="#1D3557" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="8.0.8.0"
        android:textSize="16sp"
        android:textColor="#555555" />
</LinearLayout>

<!-- Release Date -->
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:paddingVertical="8dp">

    <TextView
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Released On"
        android:textSize="18sp"
        android:textStyle="bold"
        android:textColor="#1D3557" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="6 January 2024"
        android:textSize="16sp"
        android:textColor="#555555" />
</LinearLayout>

<!-- Update Date -->
<LinearLayout

```



```

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:paddingVertical="8dp">

        <TextView
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="Updated On"
            android:textSize="18sp"
            android:textStyle="bold"
            android:textColor="#1D3557" />

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="15 June 2024"
            android:textSize="16sp"
            android:textColor="#555555" />
    </LinearLayout>
</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

```

Java codes:

MainActivity.java:

```

package com.example.booksharing_application;

import android.Manifest;
import android.content.DialogInterface;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.graphics.Bitmap;
import android.os.Bundle;
import android.provider.MediaStore;
import android.view.MenuItem;
import android.view.View;
import android.widget.ImageView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.Toolbar;
import androidx.core.app.ActivityCompat;
import androidx.core.content.ContextCompat;
import androidx.drawerlayout.widget.DrawerLayout;
import androidx.navigation.NavController;
import androidx.navigation.Navigation;
import androidx.navigation.ui.AppBarConfiguration;

```

```

import androidx.navigation.ui.NavigationUI;

import com.google.android.material.navigation.NavigationView;

public class MainActivity extends AppCompatActivity {

    private static final int CAMERA_REQUEST_CODE = 100;
    private static final int CAMERA_CAPTURE_CODE = 101;

    private DrawerLayout drawerLayout;
    private Toolbar toolbar;
    private NavigationView navigationView;
    private AppBarConfiguration appBarConfiguration;
    private ImageView imageView;

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

        drawerLayout = findViewById(R.id.drawer_layout);
        toolbar = findViewById(R.id.toolbar);
        navigationView = findViewById(R.id.nav_view);

        View headerView = navigationView.getHeaderView(0);
        imageView = headerView.findViewById(R.id.imageView);

        setSupportActionBar(toolbar);

        appBarConfiguration = new AppBarConfiguration.Builder(
            R.id.nav_home,
            R.id.nav_profile,
            R.id.nav_sharebook,
            R.id.nav_sharedbooks,
            R.id.nav_contactUs,
            R.id.nav_feedback,
            R.id.nav_aboutApp,
            R.id.nav_logout
        )
            .setDrawerLayout(drawerLayout)
            .build();

        NavController navController = Navigation.findNavController(this,
R.id.nav_host_fragment);
        NavigationUI.setupActionBarWithNavController(this, navController,
appBarConfiguration);
        NavigationUI.setupWithNavController(navigationView, navController);

        navigationView.setNavigationItemSelectedListener(new
NavigationView.OnNavigationItemSelectedListener() {
            @Override
            public boolean onNavigationItemSelected(@NonNull MenuItem item) {
                int id = item.getItemId();
                if (id == R.id.nav_home) {
                    navController.navigate(R.id.nav_home);
                } else if (id == R.id.nav_profile) {
                    navController.navigate(R.id.nav_profile);
                }
            }
        });
    }
}

```

```

        } else if (id == R.id.nav_sharebook) {
            navController.navigate(R.id.nav_sharebook);
        } else if (id == R.id.nav_sharedbooks) {
            navController.navigate(R.id.nav_sharedbooks);
        } else if (id == R.id.nav_contactUs) {
            navController.navigate(R.id.nav_contactUs);
        } else if (id == R.id.nav_feedback) {
            navController.navigate(R.id.nav_feedback);
        } else if (id == R.id.nav_aboutApp) {
            navController.navigate(R.id.nav_aboutApp);
        } else if (id == R.id.nav_logout) {
            showLogoutDialog();
        }

        drawerLayout.closeDrawers();
        return true;
    }
});

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

private boolean isCameraAvailable() {
    PackageManager packageManager = getPackageManager();
    return
packageManager.hasSystemFeature(PackageManager.FEATURE_CAMERA_FRONT);
}

private void checkCameraPermission() {
    if (!isCameraAvailable()) {
        Toast.makeText(this, "Front camera not available on this device",
Toast.LENGTH_SHORT).show();
        return;
    }

    if (ContextCompat.checkSelfPermission(this,
Manifest.permission.CAMERA) != PackageManager.PERMISSION_GRANTED) {
        ActivityCompat.requestPermissions(this, new
String[]{Manifest.permission.CAMERA}, CAMERA_REQUEST_CODE);
    } else {
        openCamera();
    }
}

private void openCamera() {
    Intent cameraIntent = new Intent(MediaStore.ACTION_IMAGE_CAPTURE);

    // Set extras to prioritize the front camera
    cameraIntent.putExtra("android.intent.extras.CAMERA_FACING",
android.hardware.Camera.CameraInfo.CAMERA_FACING_FRONT);
    cameraIntent.putExtra("android.intent.extras.LENS_FACING_FRONT", 1);
    cameraIntent.putExtra("android.intent.extra.USE_FRONT_CAMERA", true);

```

```

        if (cameraIntent.resolveActivity(getPackageManager()) != null) {
            startActivityForResult(cameraIntent, CAMERA_CAPTURE_CODE);
        } else {
            Toast.makeText(this, "Camera not supported on this device",
                Toast.LENGTH_SHORT).show();
        }
    }

    @Override
    public void onRequestPermissionsResult(int requestCode, @NonNull String[]
permissions, @NonNull int[] grantResults) {
        super.onRequestPermissionsResult(requestCode, permissions,
grantResults);
        if (requestCode == CAMERA_REQUEST_CODE) {
            if (grantResults.length > 0 && grantResults[0] ==
PackageManager.PERMISSION_GRANTED) {
                openCamera();
            } else {
                Toast.makeText(this, "Camera permission is required to use
this feature", Toast.LENGTH_SHORT).show();
            }
        }
    }

    @Override
    protected void onActivityResult(int requestCode, int resultCode, Intent
data) {
        super.onActivityResult(requestCode, resultCode, data);
        if (requestCode == CAMERA_CAPTURE_CODE && resultCode == RESULT_OK) {
            // Get the image captured by the camera
            Bitmap photo = (Bitmap) data.getExtras().get("data");
            // Set the image to the ImageView
            imageView.setImageBitmap(photo);
        }
    }

    private void showLogoutDialog() {
        new AlertDialog.Builder(this)
            .setTitle("Logout")
            .setMessage("Are you sure you want to logout?")
            .setPositiveButton("Yes", new
DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialog, int which) {
                    finishAffinity();
                    System.exit(0);
                }
            })
            .setNegativeButton("No", null)
            .setCancelable(true)
            .show();
    }

    @Override
    public boolean onSupportNavigateUp() {
        NavController navController = Navigation.findNavController(this,

```

```

R.id.nav_host_fragment);
        return NavigationUI.navigateUp(navController, appBarConfiguration) ||
super.onSupportNavigateUp();
    }
}

```

LoginActivity.java:

```

package com.example.booksharing_application;

import android.os.Bundle;
import android.content.Intent;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;

public class LoginActivity extends AppCompatActivity {
    private static final String DEFAULT_USERNAME = "admin";
    private static final String DEFAULT_PASSWORD = "1234";
    private EditText usernameEditText;
    private EditText passwordEditText;
    private Button loginButton;
    private Button newUserButton;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_login);

        usernameEditText = findViewById(R.id.editText_userName);
        passwordEditText = findViewById(R.id.editText_Password);
        loginButton = findViewById(R.id.login_btn);
        newUserButton = findViewById(R.id.newUser_btn);

        loginButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                handleLogin();
            }
        });
        newUserButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                handleNewUser();
            }
        });
    }

    private void handleLogin() {
        String username = usernameEditText.getText().toString().trim();

```

```

        String password = passwordEditText.getText().toString().trim();

        if (DEFAULT_USERNAME.equals(username) &&
            DEFAULT_PASSWORD.equals(password)) {
            Intent intent = new Intent(LoginActivity.this,
MainActivity.class);
            startActivity(intent);
            finish();
        } else {
            Toast.makeText(LoginActivity.this, "Invalid username or
password", Toast.LENGTH_SHORT).show();
        }
    }

    private void handleNewUser() {
        Intent intent = new Intent(LoginActivity.this, Signup.class);
        startActivity(intent);
    }
}

```

Signup.java:

```

package com.example.booksharing_application;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;

public class Signup extends AppCompatActivity {

    private EditText firstName, lastName, age, mobile, email, password,
confirmPassword;
    private CheckBox termsCheckBox;
    private Button saveButton, backButton;

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

        firstName = findViewById(R.id.editText_firstName);
        lastName = findViewById(R.id.editText_lastName);
        age = findViewById(R.id.editText_age);
        mobile = findViewById(R.id.editText_mobile);
        email = findViewById(R.id.editText_email);
        password = findViewById(R.id.editText_password);
        confirmPassword = findViewById(R.id.editText_confirmPassword);
        termsCheckBox = findViewById(R.id.checkBox_terms);
        saveButton = findViewById(R.id.button_save);
        backButton = findViewById(R.id.button_back);
    }
}

```

```

        saveButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String pass = password.getText().toString();
                String confirmPass = confirmPassword.getText().toString();

                if (pass.equals(confirmPass)) {
                    if (termsCheckBox.isChecked()) {
                        Toast.makeText(Signup.this, "Registration
Successful", Toast.LENGTH_SHORT).show();
                        Intent intent = new Intent(Signup.this,
LoginActivity.class);
                        startActivity(intent);
                        finish();
                    } else {
                        Toast.makeText(Signup.this, "You must accept the
terms and conditions", Toast.LENGTH_SHORT).show();
                    }
                } else {
                    Toast.makeText(Signup.this, "Passwords do not match",
Toast.LENGTH_SHORT).show();
                }
            }
        });

        backButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(Signup.this, LoginActivity.class);
                startActivity(intent);
                finish();
            }
        });
    }
}

```

NavigationActivity.java:

```

package com.example.booksharing_application;

import android.os.Bundle;
import android.view.View;
import android.view.Menu;
import com.google.android.material.snackbar.Snackbar;
import com.google.android.material.navigation.NavigationView;
import androidx.navigation.NavController;
import androidx.navigation.Navigation;
import androidx.navigation.ui.AppBarConfiguration;
import androidx.navigation.ui.NavigationUI;
import androidx.drawerlayout.widget.DrawerLayout;
import androidx.appcompat.app.AppCompatActivity;
import com.example.booksharing_application.databinding.ActivityNavigationBinding;

public class NavigationActivity extends AppCompatActivity {

```

```

private AppBarConfiguration mAppBarConfiguration;
private ActivityNavigationBinding binding;

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

    binding = ActivityNavigationBinding.inflate(getLayoutInflater());
    setContentView(binding.getRoot());

    setSupportActionBar(binding.appBarNavigation.toolbar);
    binding.appBarNavigation.fab.setOnClickListener(new
View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Snackbar.make(view, "Replace with your own action",
Snackbar.LENGTH_LONG)
            .setAction("Action", null)
            .setAnchorView(R.id.fab).show();
    }
});

    DrawerLayout drawer = binding.drawerLayout;
    NavigationView navigationView = binding.navView;

    // Define the top-level destinations for the AppBarConfiguration
    mAppBarConfiguration = new AppBarConfiguration.Builder(
        R.id.nav_home, R.id.nav_profile,
R.id.nav_sharebook, R.id.nav_sharedbooks, R.id.nav_contactUs, R.id.nav_feedback,
R.id.nav_aboutApp, R.id.nav_logout)
        .setOpenableLayout(drawer)
        .build();

    // Retrieve the NavController using the correct ID for your
navigation host fragment
    NavController navController = Navigation.findNavController(this,
R.id.nav_host_fragment_content_navigation);
    NavigationUI.setupActionBarWithNavController(this, navController,
mAppBarConfiguration);
    NavigationUI.setupWithNavController(navigationView, navController);
}

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.navigation, menu);
    return true;
}

@Override
public boolean onSupportNavigateUp() {
    NavController navController = Navigation.findNavController(this,
R.id.nav_host_fragment_content_navigation);
    return NavigationUI.navigateUp(navController, mAppBarConfiguration)
        || super.onSupportNavigateUp();
}
}

```


fragmentProfile.java:

```
package com.example.booksharing_application.ui.gallery;

import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;

import com.example.booksharing_application.R;

public class fragmentProfile extends Fragment {

    private ImageView profileImage;
    private TextView userName, userEmail, userFirstName, userLastName,
    userAge, userMobile;

    @Nullable
    @Override
    public View onCreateView(@NonNull LayoutInflater inflater, @Nullable
    ViewGroup container, @Nullable Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_profile, container,
        false);

        profileImage = view.findViewById(R.id.profileImage);
        userName = view.findViewById(R.id.userName);
        userEmail = view.findViewById(R.id.userEmail);
        userFirstName = view.findViewById(R.id.userFirstName);
        userLastName = view.findViewById(R.id.userLastName);
        userAge = view.findViewById(R.id.userAge);
        userMobile = view.findViewById(R.id.userMobile);

        populateProfileData();

        return view;
    }

    private void populateProfileData() {
        profileImage.setImageResource(R.drawable.login);

        userName.setText("John Doe");
        userEmail.setText("john@example.com");
        userFirstName.setText("John");
        userLastName.setText("Doe");
        userAge.setText("20");
        userMobile.setText("7483992");
    }
}
```

HomeFragment.java:

```
package com.example.booksharing_application.ui.home;

import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;
import androidx.navigation.Navigation;

import com.example.booksharing_application.R;

public class HomeFragment extends Fragment {

    private TextView homeTitle;
    private TextView homeDescription;
    private TextView extraInfo;
    private ImageView featuredImage;
    private ImageView shareBookIcon;
    private ImageView sharedBooksIcon;

    public HomeFragment() {
    }

    @Override
    public View onCreateView(@NonNull LayoutInflater inflater, ViewGroup
container,
                            Bundle savedInstanceState) {
        return inflater.inflate(R.layout.fragment_home, container, false);
    }

    @Override
    public void onViewCreated(@NonNull View view, @Nullable Bundle
savedInstanceState) {
        super.onViewCreated(view, savedInstanceState);

        homeTitle = view.findViewById(R.id.homeTitle);
        homeDescription = view.findViewById(R.id.homeDescription);
        extraInfo = view.findViewById(R.id.extraInfo);
        featuredImage = view.findViewById(R.id.featuredImage);
        shareBookIcon = view.findViewById(R.id.shareBook);
        sharedBooksIcon = view.findViewById(R.id.sharedBooks);

        homeTitle.setText("Welcome to Book Sharing App!");
        homeDescription.setText("Discover, share, and explore a variety of
books in our collection. Stay connected with fellow book lovers and build
your library.");
        extraInfo.setText("Join the community of book enthusiasts!");

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

```

        @Override
        public void onClick(View v) {
            Navigation.findNavController(v).navigate(R.id.nav_sharebook);
        }
    });

    sharedBooksIcon.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Navigation.findNavController(v).navigate(R.id.nav_sharedbooks);
        }
    });
}
}

```

fragmentShareBook.java:

```

package com.example.booksharing_application.ui.gallery;

import android.os.Bundle;
import android.text.TextUtils;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;
import androidx.lifecycle.ViewModelProvider;

import com.example.booksharing_application.R;

public class fragmentShareBook extends Fragment {

    private EditText bookTitleInput;
    private EditText bookAuthorInput;
    private Button shareBookButton;
    private BookViewModel bookViewModel;

    @Nullable
    @Override
    public View onCreateView(@NonNull LayoutInflater inflater, @Nullable
        ViewGroup container, @Nullable Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_sharebook, container,
            false);

        bookViewModel = new
            ViewModelProvider(requireActivity()).get(BookViewModel.class);

        bookTitleInput = view.findViewById(R.id.bookTitleInput);
    }
}

```

```

        bookAuthorInput = view.findViewById(R.id.bookAuthorInput);
        shareBookButton = view.findViewById(R.id.shareBookButton);

        shareBookButton.setOnClickListener(v -> shareBook());

        return view;
    }

    private void shareBook() {
        String bookTitle = bookTitleInput.getText().toString().trim();
        String bookAuthor = bookAuthorInput.getText().toString().trim();

        if (TextUtils.isEmpty(bookTitle)) {
            Toast.makeText(getContext(), "Please enter the book title.",
Toast.LENGTH_SHORT).show();
            return;
        }

        if (TextUtils.isEmpty(bookAuthor)) {
            Toast.makeText(getContext(), "Please enter the author's name.",
Toast.LENGTH_SHORT).show();
            return;
        }

        // Add the book details to the ViewModel
        bookViewModel.addBook(bookTitle, bookAuthor);

        Toast.makeText(getContext(), "Book shared successfully!",
Toast.LENGTH_LONG).show();

        bookTitleInput.setText("");
        bookAuthorInput.setText("");
    }
}

```

BookViewModel.java:

```

package com.example.booksharing_application.ui.gallery;

import androidx.lifecycle.LiveData;
import androidx.lifecycle.MutableLiveData;
import androidx.lifecycle.ViewModel;

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

public class BookViewModel extends ViewModel {
    private final MutableLiveData<List<String>> sharedBooks = new
MutableLiveData<>();

    public BookViewModel() {
        sharedBooks.setValue(new ArrayList<>()); // Initialize with an empty
list
    }

    public void addBook(String title, String author) {

```

```

        List<String> currentBooks = sharedBooks.getValue();
        if (currentBooks != null) {
            currentBooks.add("Title: " + title + "\nAuthor: " + author);
            sharedBooks.setValue(currentBooks);
        }
    }

    public LiveData<List<String>> getSharedBooks() {
        return sharedBooks;
    }
}

```

fragmentSharedBook.java:

```

package com.example.booksharing_application.ui.gallery;

import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget.ListView;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;
import androidx.lifecycle.Observer;
import androidx.lifecycle.ViewModelProvider;

import com.example.booksharing_application.R;

import java.util.List;

public class fragmentSharedBook extends Fragment {

    private ListView sharedBooksListView;
    private BookViewModel bookViewModel;

    @Nullable
    @Override
    public View onCreateView(@NonNull LayoutInflater inflater, @Nullable
        ViewGroup container, @Nullable Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_sharedbook, container,
            false);

        bookViewModel = new
            ViewModelProvider(requireActivity()).get(BookViewModel.class);

        sharedBooksListView = view.findViewById(R.id.sharedBooksListView);

        bookViewModel.getSharedBooks().observe(getViewLifecycleOwner(), new
            Observer<List<String>>() {
                @Override

```

```

        public void onChanged(List<String> books) {
            // Update the ListView with the current list of books
            sharedBooksListView.setAdapter(new ArrayAdapter<>(
                getContext(),
                android.R.layout.simple_list_item_1,
                books
            ));
        }
    });

    return view;
}
}

```

fragmentContactUs.java:

```

package com.example.booksharing_application.ui.gallery;

import android.Manifest;
import android.content.pm.PackageManager;
import android.net.Uri;
import android.os.Bundle;
import android.util.Log;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import android.content.Intent;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.core.app.ActivityCompat;
import androidx.core.content.ContextCompat;
import androidx.fragment.app.Fragment;

import com.example.booksharing_application.R;
import com.mongodb.MongoClientSettings;
import com.mongodb.MongoException;
import com.mongodb.ServerAddress;
import com.mongodb.client.MongoClient;
import com.mongodb.client.MongoClients;
import com.mongodb.client.MongoCollection;
import com.mongodb.client.MongoDatabase;

import org.bson.Document;

import java.util.Collections;

public class fragmentContactUs extends Fragment {

    private static final String TAG = "fragmentContactUs";
    private EditText nameInput, emailInput, messageInput, dialInput;

```

```

private Button sendFeedbackButton, dialButton;

private MongoClient mongoClient;
private MongoCollection<Document> feedbackCollection;

private static final int CALL_PERMISSION_REQUEST_CODE = 100;

@Nullable
@Override
public View onCreateView(@NonNull LayoutInflater inflater, @Nullable
ViewGroup container, @Nullable Bundle savedInstanceState) {
    View view = inflater.inflate(R.layout.fragment_contactus, container,
false);

    nameInput = view.findViewById(R.id.nameInput);
    emailInput = view.findViewById(R.id.emailInput);
    messageInput = view.findViewById(R.id.messageInput);
    dialInput = view.findViewById(R.id.dialInput);
    sendFeedbackButton = view.findViewById(R.id.sendFeedback_btn);
    dialButton = view.findViewById(R.id.dialButton);

    // Initialize MongoDB connection
    initializeMongoDB();

    sendFeedbackButton.setOnClickListener(v -> sendFeedback());
    dialButton.setOnClickListener(v -> checkCallPermission());

    return view;
}

private void initializeMongoDB() {
    try {
        mongoClient = MongoClient.create(
            MongoClientSettings.builder()
                .applyToClusterSettings(builder ->
builder.hosts(Collections.singletonList(new ServerAddress("10.0.2.2",
27017))))
                .build()
        );

        MongoDBDatabase mongoDatabase =
mongoClient.getDatabase("bookSharingApp");
        feedbackCollection = mongoDatabase.getCollection("feedback");

        Log.d(TAG, "MongoDB Connected: " + mongoDatabase.getName());
        Toast.makeText(getActivity(), "Connected to MongoDB
successfully!", Toast.LENGTH_SHORT).show();
    } catch (Exception e) {
        Log.e(TAG, "Error initializing MongoDB: " + e.getMessage(), e);
        Toast.makeText(getActivity(), "Error connecting to MongoDB.",
Toast.LENGTH_SHORT).show();
    }
}

private void sendFeedback() {
    String name = nameInput.getText().toString().trim();

```

```

String email = emailInput.getText().toString().trim();
String message = messageInput.getText().toString().trim();

if (name.isEmpty() || email.isEmpty() || message.isEmpty()) {
    Toast.makeText(getActivity(), "Please fill in all fields!",
Toast.LENGTH_SHORT).show();
    return;
}

Log.d(TAG, "Name: " + name);
Log.d(TAG, "Email: " + email);
Log.d(TAG, "Message: " + message);

Document feedbackDoc = new Document("name", name)
    .append("email", email)
    .append("message", message);

new Thread(() -> {
    try {
        if (feedbackCollection != null) {
            feedbackCollection.insertOne(feedbackDoc);
            Log.d(TAG, "Feedback saved: " + feedbackDoc.toJson());
            requireActivity().runOnUiThread(() -> {
                Toast.makeText(getActivity(), "Feedback submitted
successfully!", Toast.LENGTH_SHORT).show();
                clearInputs();
            });
        } else {
            Log.e(TAG, "Feedback collection is null. Check MongoDB
connection.");
            requireActivity().runOnUiThread(() ->
                Toast.makeText(getActivity(), "Feedback
submission failed. Database issue.", Toast.LENGTH_SHORT).show()
            );
        }
    } catch (MongoException e) {
        Log.e(TAG, "Error saving feedback: " + e.getMessage(), e);
        requireActivity().runOnUiThread(() ->
            Toast.makeText(getActivity(), "Error submitting
feedback.", Toast.LENGTH_SHORT).show()
        );
    } catch (Exception e) {
        Log.e(TAG, "Unexpected error: " + e.getMessage(), e);
        requireActivity().runOnUiThread(() ->
            Toast.makeText(getActivity(), "An unexpected error
occurred.", Toast.LENGTH_SHORT).show()
        );
    }
}).start();
}

private void clearInputs() {
    nameInput.setText("");
    emailInput.setText("");
    messageInput.setText("");
}

```



```

        private void checkCallPermission() {
            if (ContextCompat.checkSelfPermission(requireContext(),
Manifest.permission.CALL_PHONE) != PackageManager.PERMISSION_GRANTED) {
                ActivityCompat.requestPermissions(requireActivity(), new
String[]{Manifest.permission.CALL_PHONE}, CALL_PERMISSION_REQUEST_CODE);
            } else {
                makePhoneCall();
            }
        }

        private void makePhoneCall() {
            String phoneNumber = dialInput.getText().toString().trim();

            if (phoneNumber.isEmpty()) {
                Toast.makeText(getActivity(), "Please enter a valid phone
number.", Toast.LENGTH_SHORT).show();
                return;
            }

            try {
                Intent intent = new Intent(Intent.ACTION_CALL, Uri.parse("tel:" +
phoneNumber));
                startActivity(intent);
            } catch (SecurityException e) {
                Toast.makeText(getActivity(), "Permission denied for making
calls.", Toast.LENGTH_SHORT).show();
            }
        }

        @Override
        public void onRequestPermissionsResult(int requestCode, @NonNull String[]
permissions, @NonNull int[] grantResults) {
            super.onRequestPermissionsResult(requestCode, permissions,
grantResults);
            if (requestCode == CALL_PERMISSION_REQUEST_CODE) {
                if (grantResults.length > 0 && grantResults[0] ==
PackageManager.PERMISSION_GRANTED) {
                    makePhoneCall();
                } else {
                    Toast.makeText(getActivity(), "Call permission denied.",
Toast.LENGTH_SHORT).show();
                }
            }
        }

        @Override
        public void onDestroy() {
            super.onDestroy();
            if (mongoClient != null) {
                mongoClient.close();
            }
        }
    }
}

```

fragmentFeedback.java:

```
package com.example.booksharing_application.ui.gallery;

import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RatingBar;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;

import com.example.booksharing_application.R;

public class fragmentFeedback extends Fragment {

    private EditText feedbackInput;
    private RatingBar ratingBar;
    private Button submitFeedbackButton;

    @Nullable
    @Override
    public View onCreateView(@NonNull LayoutInflater inflater, @Nullable
        ViewGroup container, @Nullable Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_feedback, container,
            false);

        feedbackInput = view.findViewById(R.id.feedbackInput);
        ratingBar = view.findViewById(R.id.ratingBar);
        submitFeedbackButton = view.findViewById(R.id.submitFeedbackButton);

        submitFeedbackButton.setOnClickListener(v -> {
            String feedback = feedbackInput.getText().toString().trim();
            float rating = ratingBar.getRating();

            if (feedback.isEmpty()) {
                Toast.makeText(getActivity(), "Please enter your feedback.",
                    Toast.LENGTH_SHORT).show();
            } else if (rating == 0) {
                Toast.makeText(getActivity(), "Please provide a rating.",
                    Toast.LENGTH_SHORT).show();
            } else {
                String message = "Thank you for your feedback!\nRating: " +
                    rating + "\nFeedback: " + feedback;
                Toast.makeText(getActivity(), message,
                    Toast.LENGTH_LONG).show();

                feedbackInput.setText("");
                ratingBar.setRating(0);
            }
        });
    }
}
```

```
        return view;
    }
}
```

fragmentAboutApp.java:

```
package com.example.booksharing_application.ui.gallery;

import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

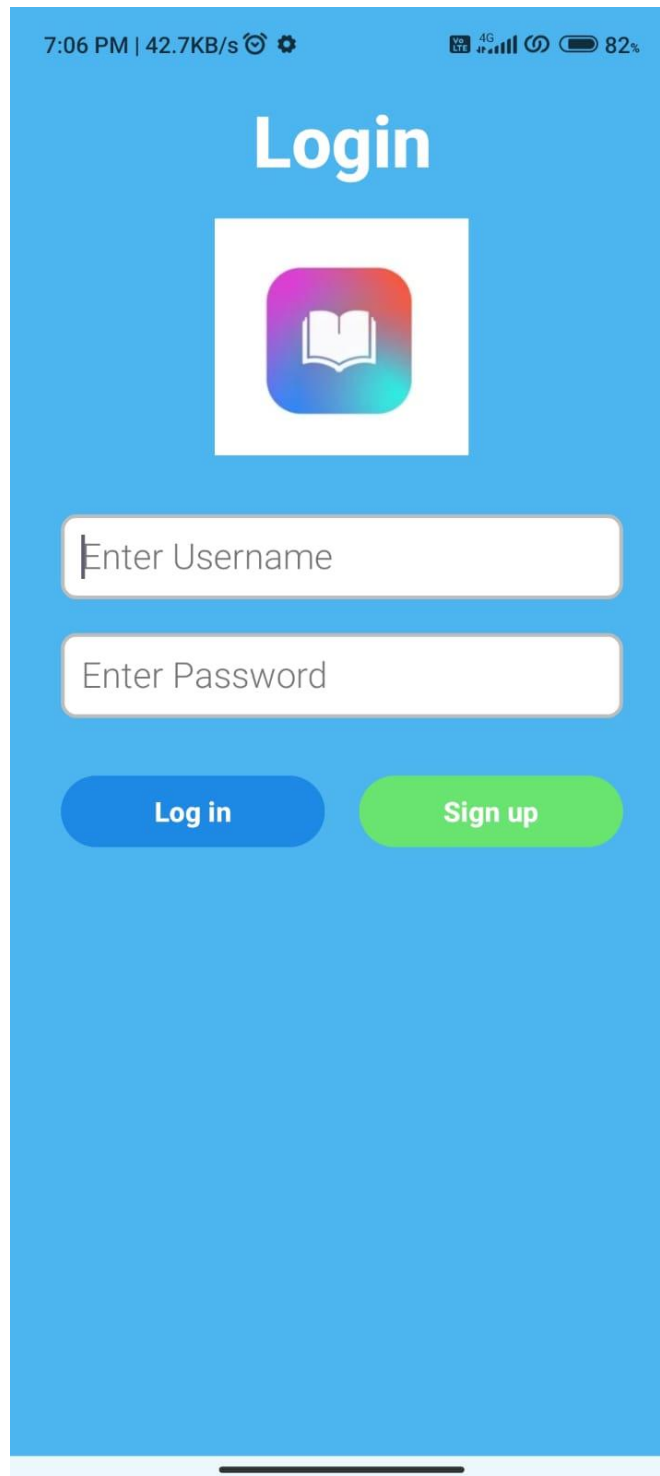
import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;

import com.example.booksharing_application.R;

public class fragmentAboutApp extends Fragment {

    @Override
    public View onCreateView(@NonNull LayoutInflater inflater, @Nullable
        ViewGroup container, @Nullable Bundle savedInstanceState) {
        return inflater.inflate(R.layout.fragment_aboutapp, container,
            false);
    }
}
```

Output:



2:30 PM | 0.0KB/s

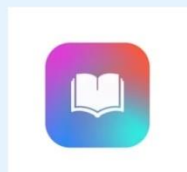
4G 97%

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New User Registration


☐ Male ☐ Female ☐ Other

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8300202949

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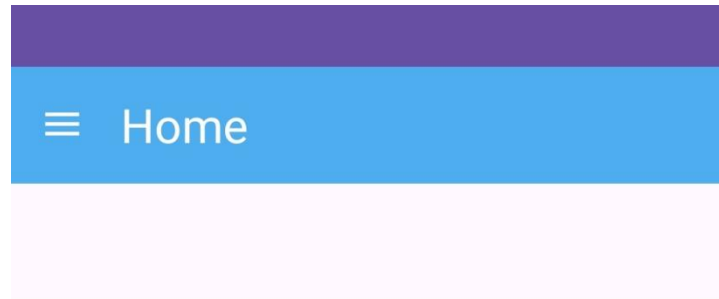


Log in

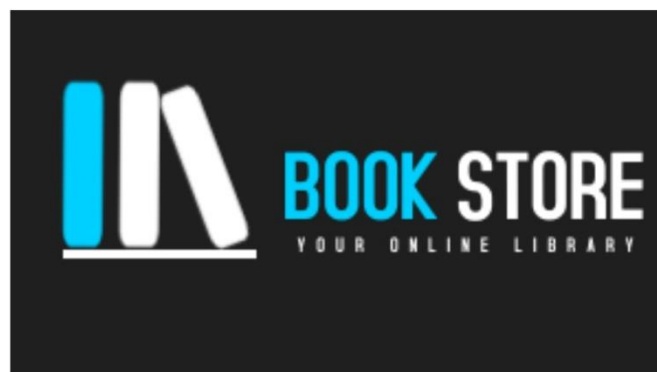
Sign up



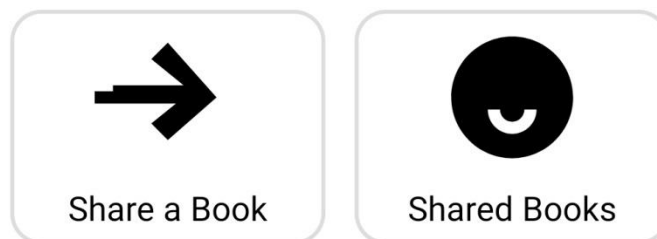
Registration Successful



Welcome to Book Sharing App!

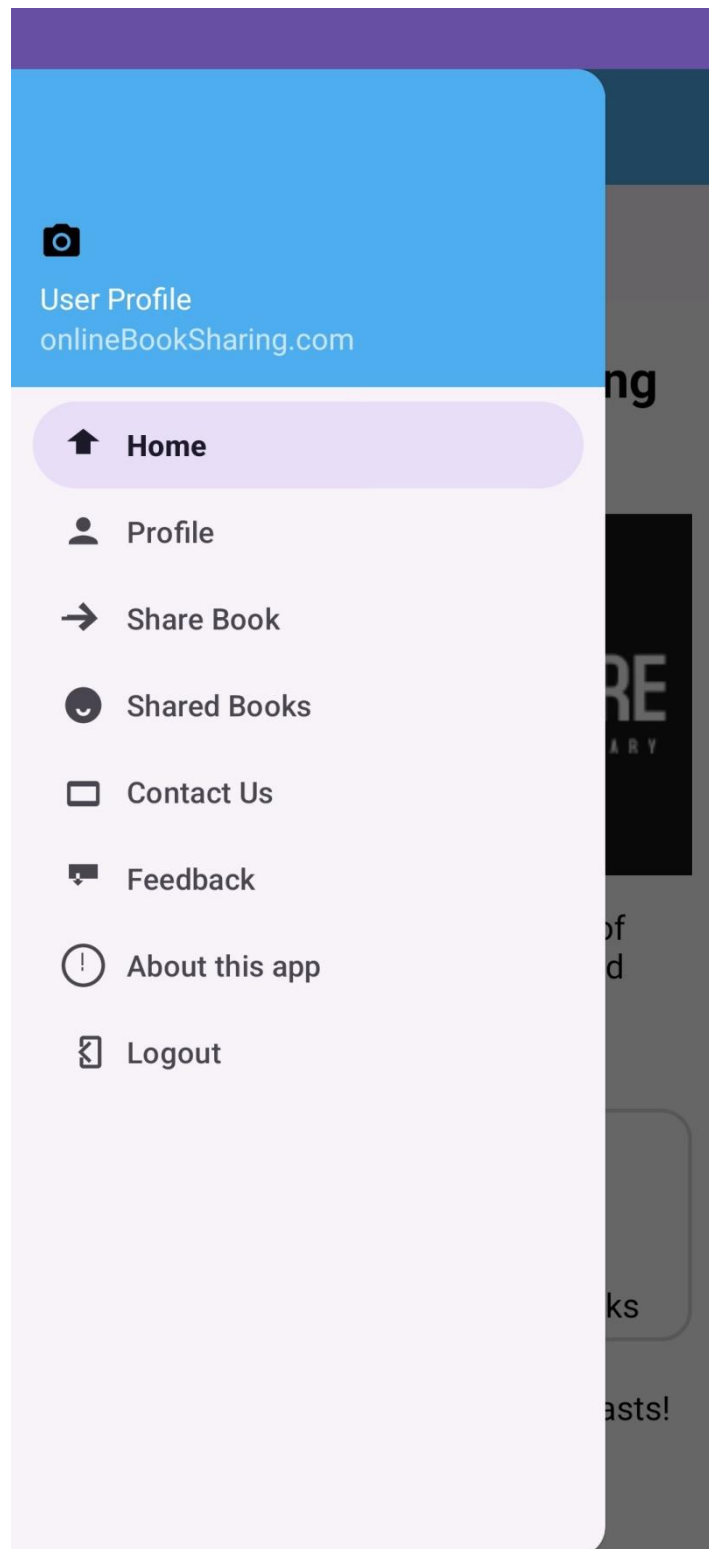


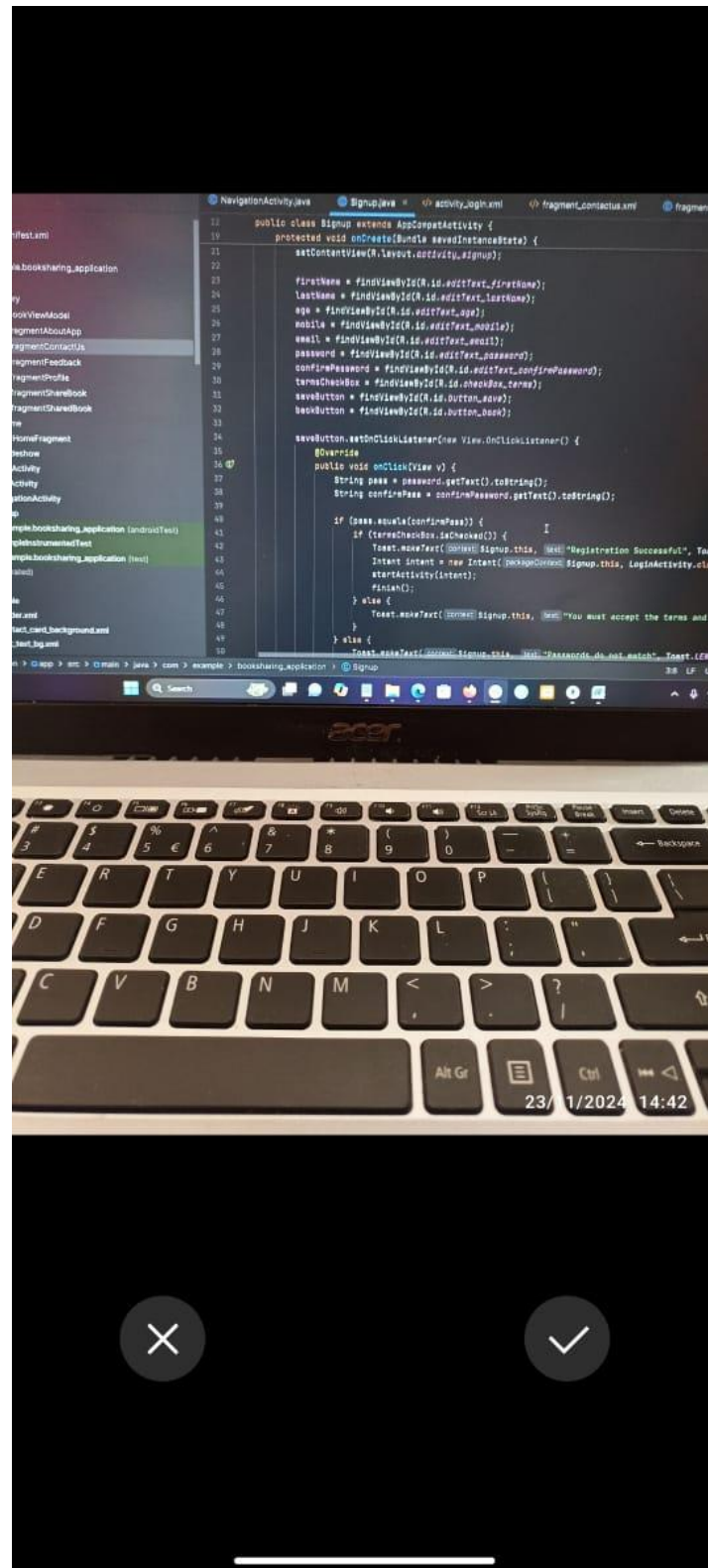
Discover, share, and explore a variety of books in our collection. Stay connected with fellow book lovers and build your library.

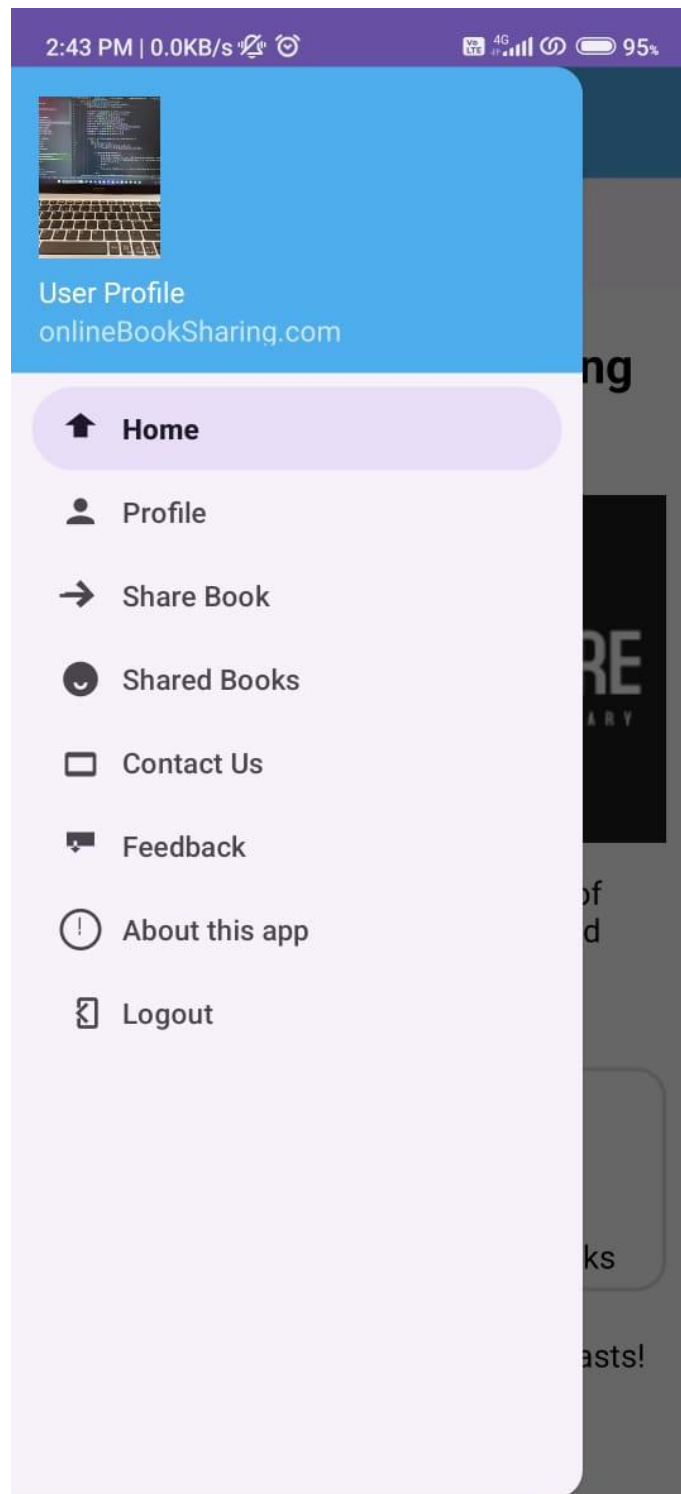


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Profile



John Doe
john@example.com

First Name:
John

Last Name:
Doe

Age:
20

Mobile Number:
7483992



Share Book

Share a Book

Mobile Application Development

Robert

Share Book

≡ Share Book

Share a Book

Enter Book Title

Enter Author Name



Book shared
successfully!

Share Book

≡ Shared Books

Shared Books

Title: Mobile Application Development

Author: Robert


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Contact Us

Contact Us



support@bookshare.com

+918300202949|

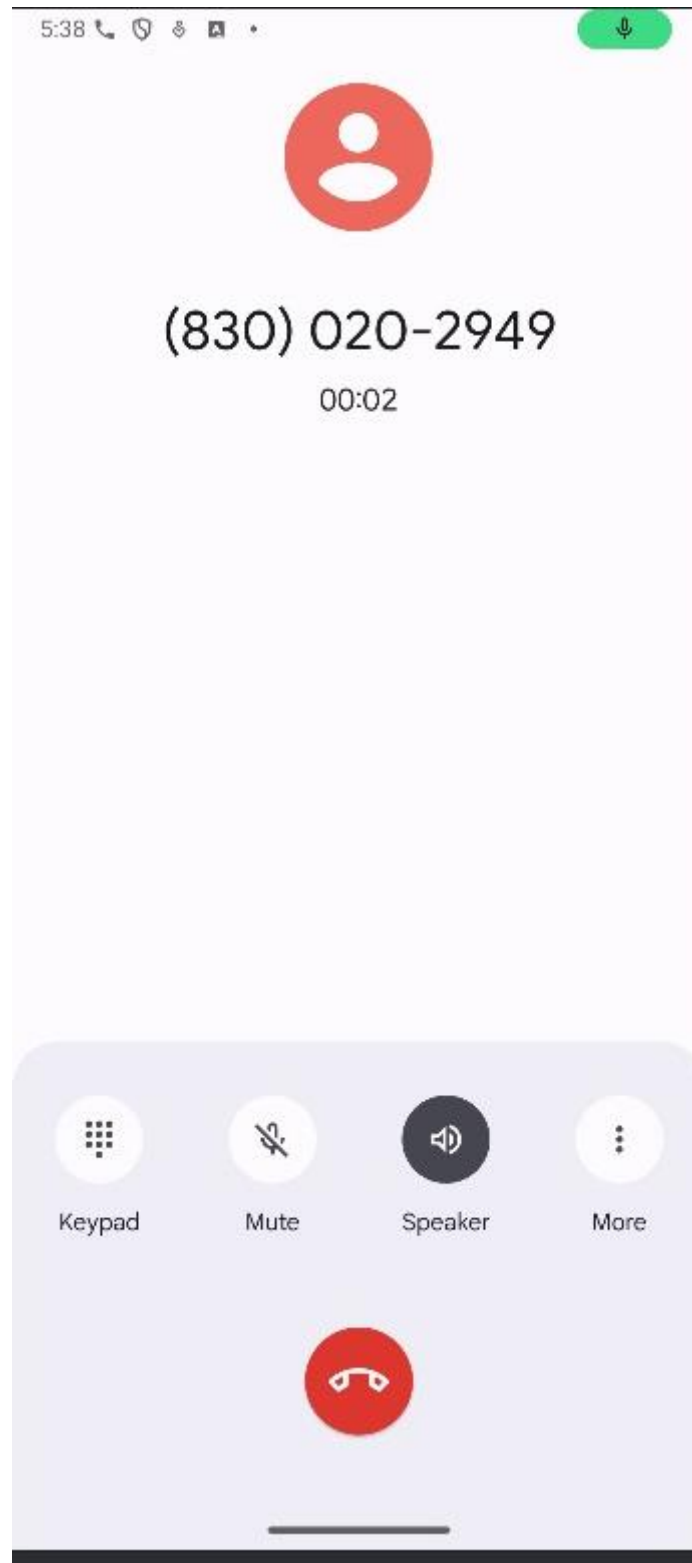
Call

Your Name

Your Email

Your Message


Submit




7:17 PM | 8.1KB/s 4G 81%

☰ Contact Us

Contact Us

 support@bookshare.com

Call

 Connected to MongoDB successfully!

6:39 3G

☰ Contact Us

✕

↶

😊

☰

Contact Us

✉ support@bookshare.com

Enter phone number

Call

lenoo

lenoo@gmail.com

hello support team.....

Submit

6:42 3G

☰ Contact Us

✕

↶

😊

☰

Contact Us

✉ support@bookshare.com

Enter phone number

Call

mohammed zyaan c

zyaan27@gmail.com

hello support team

Submit

6:45 3G

☰ Contact Us

✕

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😊

☰

Contact Us

✉ support@bookshare.com

Enter phone number

Call

zulfiqar ali

zulfi@gmail.com

book sharing application support feedback....

Submit

6:56

3G

Contact Us

✕

↶

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☰

Contact Us

✉

support@bookshare.com

Enter phone number

Call

Your Name

Your Email

Your Message

Submit

📬

Feedback submitted successfully!

Mongodb:

MongoDB Compass - vit/bookSharingApp.feedback

Connections Edit View Collection Help

Compass

My Queries

CONNECTIONS (1)

Search connections

- vit
- admin
- bookSharingApp
 - feedback
- config
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vit > bookSharingApp > feedback

Documents 3 Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#)

Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

25 1 - 3 of 3

```
{
  "_id": ObjectId("6741d46461b9fd3cabb5e48"),
  "name": "lenoo",
  "email": "lenoo@gmail.com",
  "message": "hello support team....."
}
```

```
{
  "_id": ObjectId("6741d4d661b9fd3cabb5e49"),
  "name": "mohammed zyaaan c",
  "email": "zyaan27@gmail.com",
  "message": "hello support team ....."
}
```

```
{
  "_id": ObjectId("6741d5ce61b9fd3cabb5e4a"),
  "name": "zulfiqar ali",
  "email": "zulfiqar@gmail.com",
  "message": "book sharing application support feedback...."
}
```

Feedback

Feedback

Rate your experience:



Good App

Submit

Feedback

Feedback

Rate your experience:



Write your feedback...

Submit



Thank you for your
feedback!...

