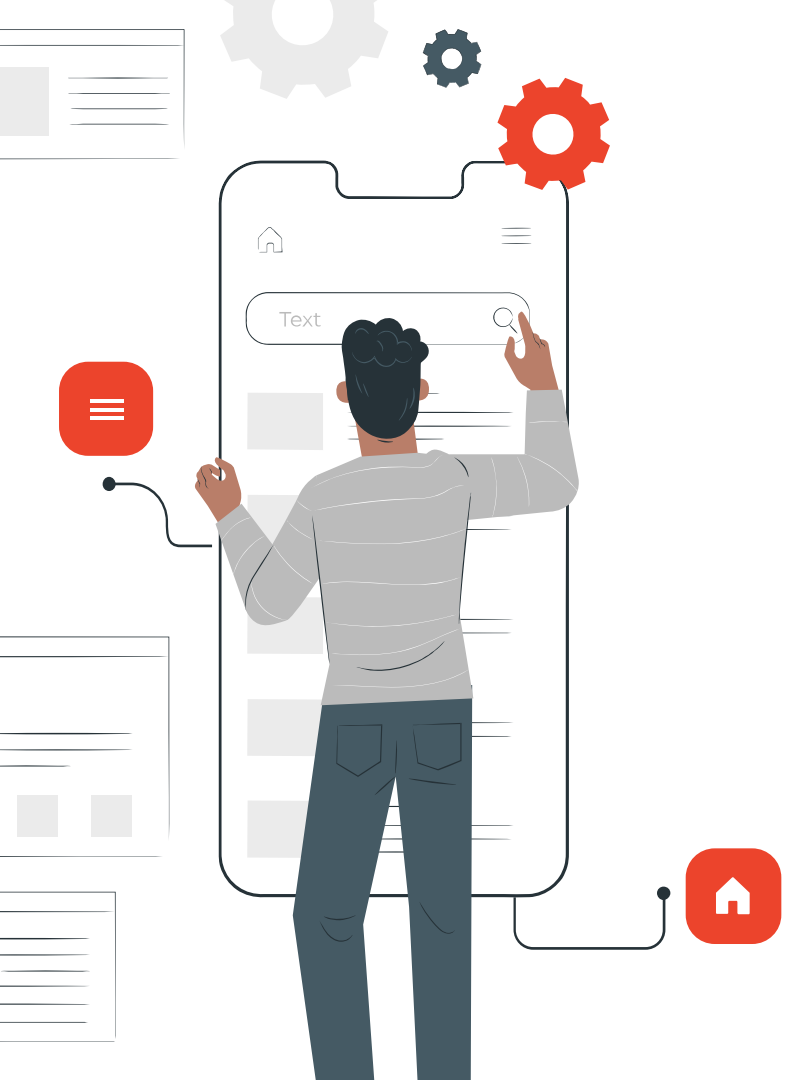

Bookstore
POS system

Group 4

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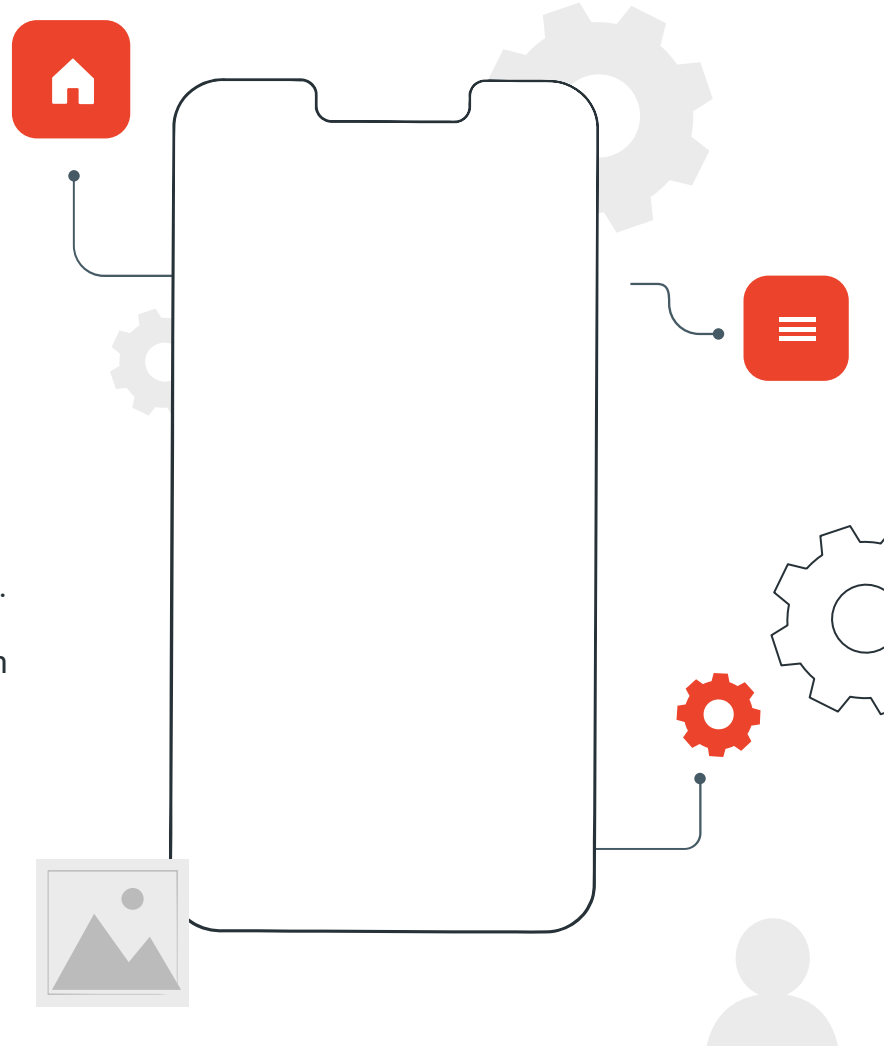
Introduction

1. Our project introduces an innovative mobile application that streamlines bookstore operations.

2. Designed for bookstores that buy back and resell books, the app simplifies checkout and inventory management without the need for complex hardware.

3. It dynamically adjusts prices based on book condition and past sales, offering a user-friendly and efficient solution to optimize operations and enhance customer satisfaction.



FEATURES

Simple

Easy to use UI with QR code and text based searching for quick retrieve of data

Persistence

Current logged in user and cart items stored in local storage

Real Time Data

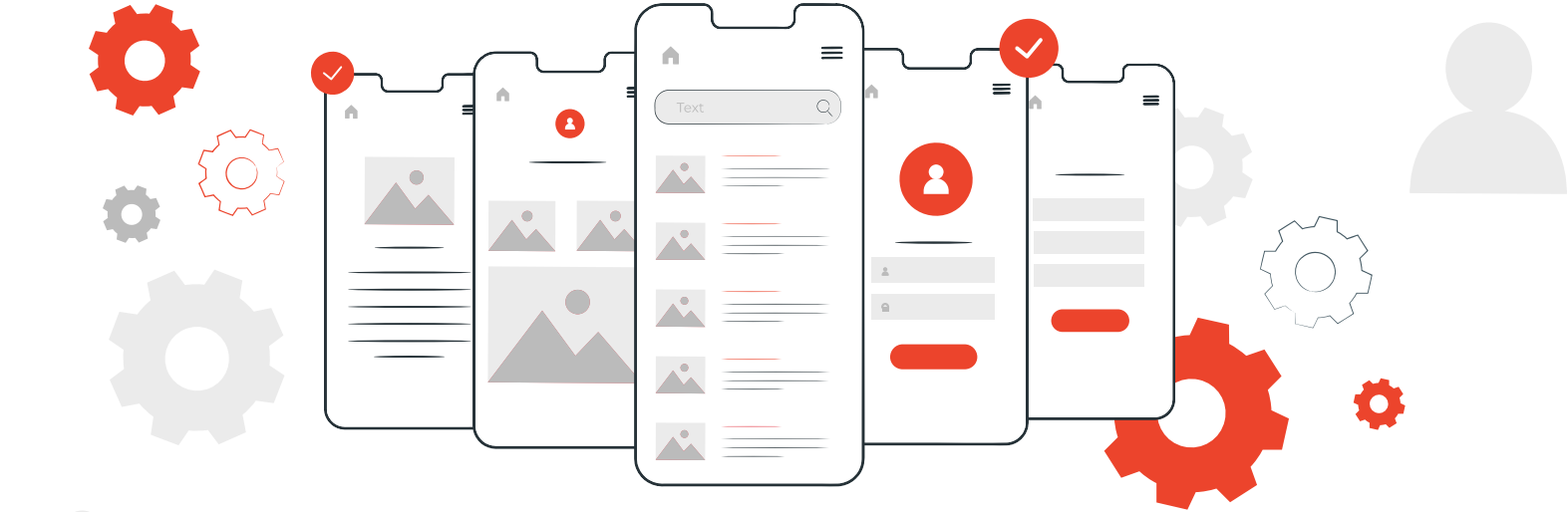
All data pulled and update from custom made Java APIs

Firebase Auth

Application access secured through use of email/password pair

Test & iterate

App tested for horizontal and vertical orientation.



APP DEMO

Score Sheet - Page 1

Features		Score	Explanation	Screen
Basic Features (up to 80/70)	Navigation/Drawer/VIewPager	10	Navigation/Navigation Drawer	All Screens
	RecyclerView/ Master-Detail Flow	10	CardView et al, appealing animation effects	Home Page & Cart Page
	Toolbar, Menus, Floating Action Button, and various Layout scheme	15	Multiple items on the Toolbar, Menus, multiply layout scheme, Floating Action Button (Min 4 out of 5 these items)	All components are used
	Multiple Fragments and Activities	10	Appealing animation effects during activity/fragment transitions (using shared element is advanced animation)	Each book card is a fragment & each card item is a gragment
	User&App State/persistence/SQLite	5	When the app is relaunched from Home or other Apps, the app should restore the app state as closely as possible to the previous state.	Persistence : RoomDB API : MySQL
	Layout & Orientation Changes	5	Application should behave same for most of the Android devices in landscape & portrait mode.	Tested for Vertical & Horizontal Orientation
	Local Room/SQLite/Cloud database	10/20	Need to support the real-time feature, and login feature.	Room, MySQL, AWS RDS
	Dialog/Custom View/Animation	5	No trivia dialogs, custom designed views, advanced animation	Popup Dialog & Fade-in Animation in Checkout page

Score Sheet - Page 2

Features			Score	Explanation	Screen
Advanced Features (up to 20/30)	Media (up to 10)	Video/Audio Player	5		Implemented in Book Detail View
		Camera/Gallery	5		Used for QR code scanning
		YouTube	5	Use YouTube API to play videos in your app.	
		Voice-to-Text	5	Integrate this in meaningful way.	
	Location (10)	Maps	5		
		GPS	5		
	CoordinatorLayout (Advanced)		5	Support expanding or contracting the Toolbar using the CoordinatorLayout.	Used to create activity layout, example Checkout Activity
	Advanced Animation (5)	Flipbook Style	5		
		Others	5	Other appealing animation effects not covered in class	
	Data (20)	Real API Data	5	Use real data from public resources/servers	Own Book Dataset created
		Retrofit/Libraries	5	Using Retrofit/similar library to fetch API data from server	Retrofit library used to fetch data from API
		Your own server*	5	Host data using your own server	Backend Hosted On AWS EC2
		Content Provider	5	Use/create a content provider to access	

Score Sheet - Page 3

Security (5)	Firebase/Similar Security	5	Use its security features to provide fine-grained access control	**Login feature implement**
System (5)	Broadcast receiver	5	App responds to Broadcast events in a meaningful way.	
	Service	5	App runs services to handle long running background tasks.	
Google (5)	In-app purchase	5		
	Play Store	5		

NOTES

Username: shopowner@gmail.com
password: changeme

- Our backend data APIs are deployed on AWS free tier account, blocked on university network due to security issues. The data fetching should work on personal networks/carrier hotspot.

- As per feedback during the project design proposal, we have implemented login functionality.

Code base available at
Android: https://github.com/kamaljitkaur98/book-store-pos-android-app
Backend API (Java): https://github.com/adityap02/Bookstore

Thanks!

Do you have any questions?