

My Application

BookStack Android App

Introduction

BookStack is an Android app which provides a platform to users for buying or selling old or new books at their own demanded cost.

This app allows the users to register/login using their Email ID. Once registered, users can post their books for Sharing/Donation/Sale etc.

The users post the books details along with its photos and the posted book along with its details are visible to all other users. The app provides options to contact the book owner via call/SMS/email. The exchanges/sale of book take place outside of the app. No transactions are performed on the app.

Objectives:

To develop and design an Android-based mobile application which provides a platform to users to buy or sell old/new books giving them hassle-free experience and enhance the performance of the application as much as possible.

Environmental Setup

We can start our Android application development on either of the following operating systems –

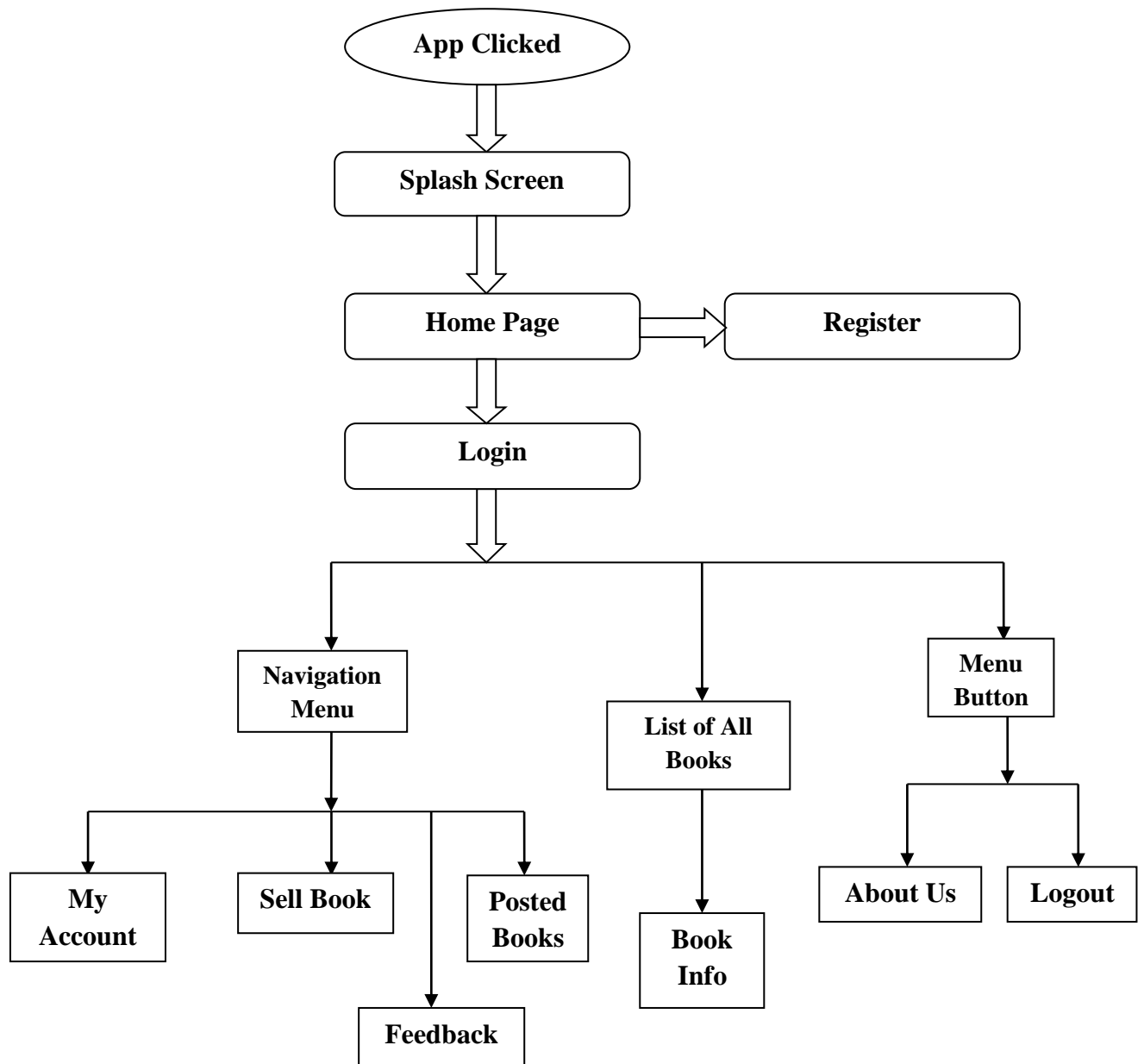
- Microsoft Windows XP or later version.
- Mac OS X 10.5.8 or later version with Intel chip.
- Linux including GNU C Library 2.7 or later.

Second point is that all the required tools to develop Android applications are freely available and can be downloaded from the Web. Following is the list of software's you will need before you start your Android application programming.

- Java JDK5 or later version
- Android Studio

Microsoft Windows 10 and Android Studio 3.0 platform are used while development of this application.

Flow chart diagram:



App module description:

- ☐ Home page
 - List of books
- ☐ Menu
 - About Us
 - Login
- ☐ Navigation Menu
 - My Account
 - Sell Book
 - Posted Books
 - Feedback

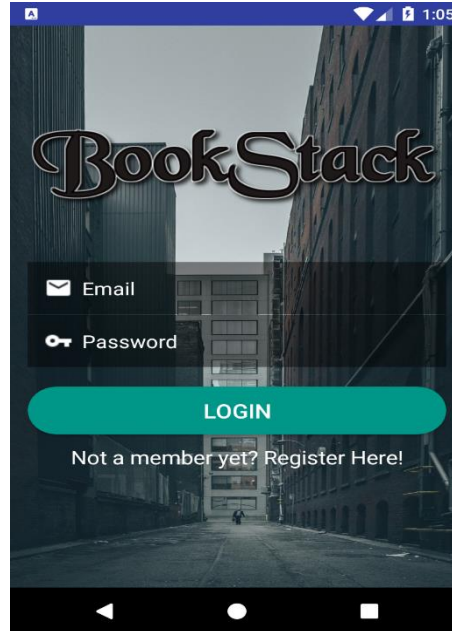
1. SPLASH SCREEN ACTIVITY

The first activity launch after clicking the app icon is its splash screen activity. It runs for 3 seconds after which it automatically gets finished and launches Login page after that.



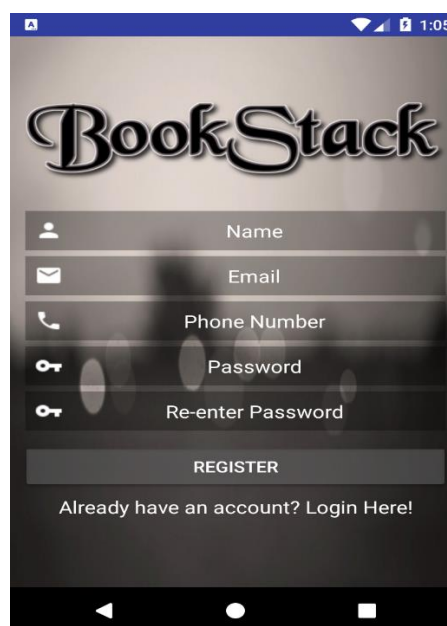
2. LOGIN ACTIVITY

The Login activity page is launched directly after the splash screen activity. Users who are already registered can Login from this screen with the registered Email ID and password.



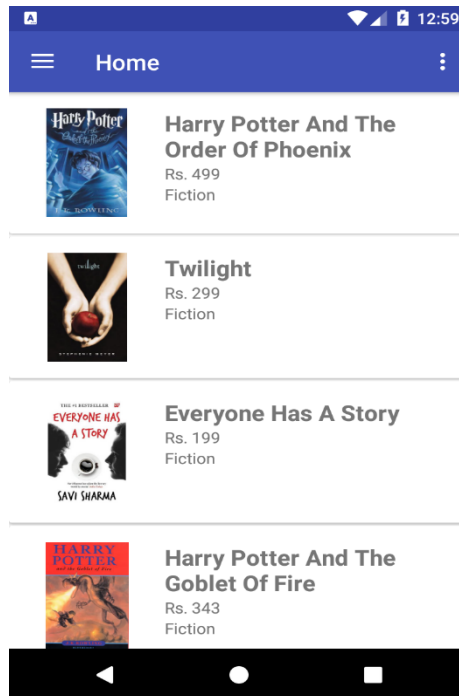
3. REGISTER ACTIVITY

New users who are not already registered with the BookStack can register through this activity and can Login after that.



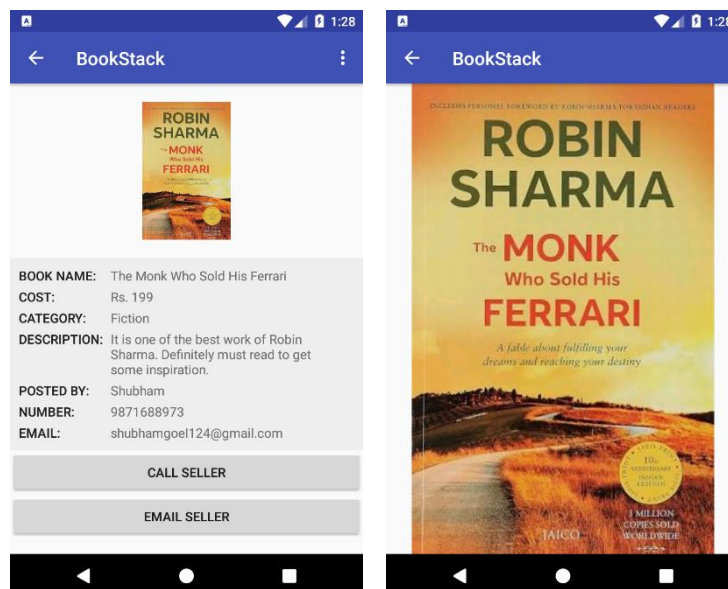
4. HOME PAGE

Just after the splash screen, the main page known as home page appears. At top right corner, there is a menu option which takes to next page having two options – About Us and an option to Logout. And at left corner, the arrow is given to exit the app.



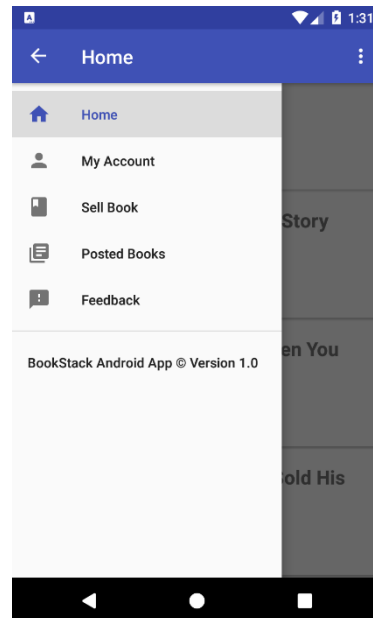
- **BOOK INFO ACTIVITY**

On clicking any desired book on the Home page, this activity opens up with all the details of that book listing with the information of the user and user can also view the enlarged view of the book image.



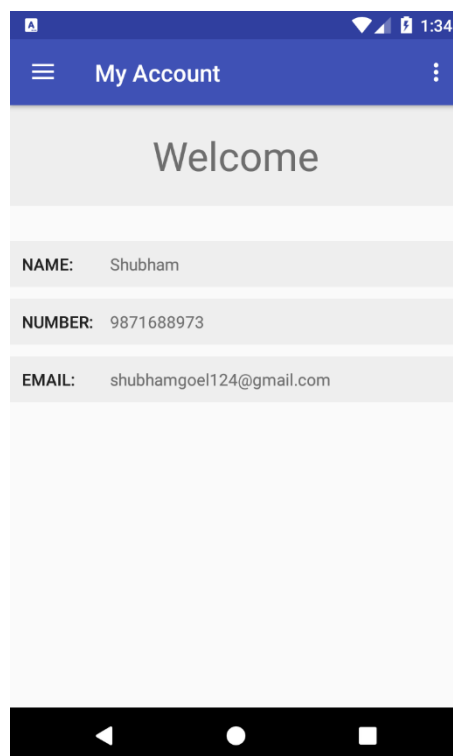
5. NAVIGATION MENU

In Navigation Menu, users have the option to navigate to 5 section of the application i.e. Home, My Account, Sell Book, Posted Books and Feedback.



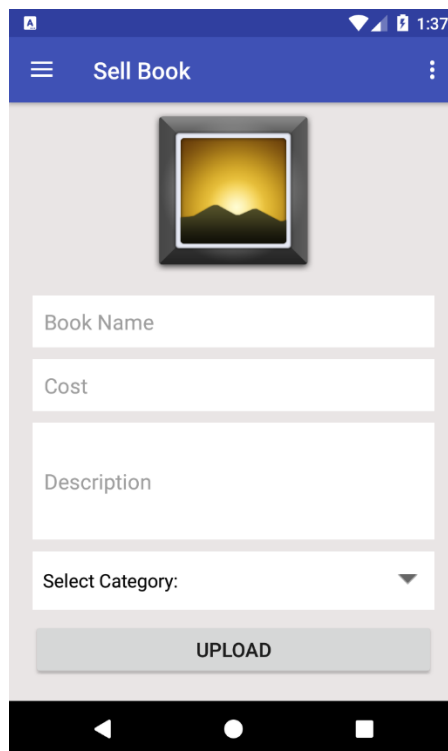
- **MY ACCOUNT**

In this section, user can view their registered details.



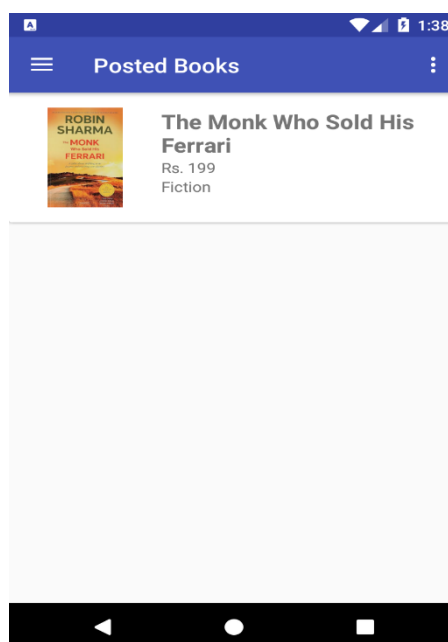
- **SELL BOOK**

This is the section where a user can sell his/her book and post the listing of the book with the asked details.



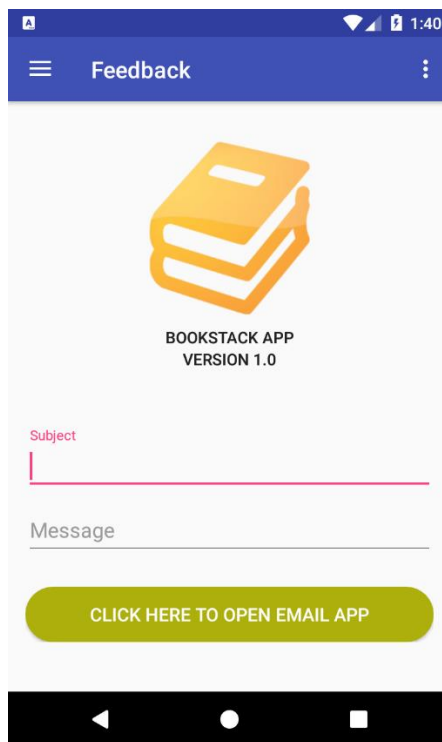
- **POSTED BOOKS**

This section of the app shows the books posted by the user who is Logged-in. This way, user can keep a track of his/her listings of the books.



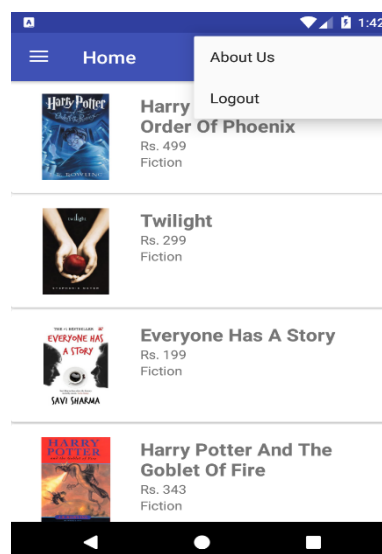
- **FEEDBACK**

Users can give feedback to the developers by going to this section and writing to it.



6. OPTIONS MENU BUTTON

Just after the splash screen, the main page known as home page appears, at top right corner, there is a menu option which takes to next page having two options – About Us and an option to Logout.



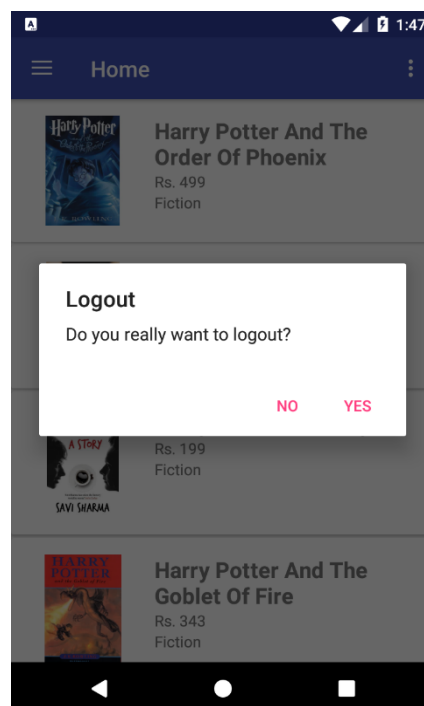
- **ABOUT**

It shows the info about app.



- **LOGOUT**

Users can logout from their ID by clicking this option.



Database

BookStack Android App runs on networking and needs an active internet connection to run as all the data is stored on an online web server. Online server used for this project and all the files hosted are on 000webhost.com

PHP is used for scripting purpose and all the PHP files are hosted on 000webhost only. All the SQL queries are handled by mySQLi through PHP.

The screenshot shows the phpMyAdmin interface for a database named 'id761380_bookstack_new'. The 'books' table is selected, and its structure and data are displayed. The table has columns: book_id, image_url, name, cost, description, category, posted_by, and is_active. The data is as follows:

book_id	image_url	name	cost	description	category	posted_by	is_active
1	https://restricting-writer.000webhostapp.com/pictu...	Harry Potter And The Order Of Phoenix	499	Best book to read.	Fiction	U1	Y
2	https://restricting-writer.000webhostapp.com/pictu...	Nice lovely story, Must read.	299		Fiction	U1	Y
3	https://restricting-writer.000webhostapp.com/pictu...	Everyone Has A Story	199	Inspirational story. Everyone should read it.	Fiction	U1	Y
4	https://restricting-writer.000webhostapp.com/pictu...	Harry Potter And The Goblet Of Fire	343	One of the best work by J.K. Rowling.	Fiction	U1	Y
5	https://restricting-writer.000webhostapp.com/pictu...	General Knowledge 2017	99	Updated with latest current affairs. Go for it.	Others	U1	Y
6	https://restricting-writer.000webhostapp.com/pictu...	Let Us C	199	Best book to start for learning C programming.	Textbooks	U2	Y
7	https://restricting-writer.000webhostapp.com/pictu...	This Is Not Your Story	121	Great book by Savi Sharma. Definitely a must read...	Fiction	U2	Y
8	https://restricting-writer.000webhostapp.com/pictu...	Who Will Cry When You Die	175	Some might like it. Some might hate it. Typical Ro...	Non-Fiction	U1	Y
9	https://restricting-writer.000webhostapp.com/pictu...	The Monk Who Sold His Ferrari	199	It is one of the best work of Robin Sharma. Defini...	Fiction	U3	Y

The screenshot shows the phpMyAdmin interface for the same database, but the 'users' table is selected. The table structure and data are displayed. The table has columns: userid, email, password, name, and number. The data is as follows:

userid	email	password	name	number
U1	aman@gmail.com	abcd1234	Aman	9729817281
U2	ahlawatlakshay31@gmail.com	maximus12	Lakshay	8285555395
U3	shubhamgoel124@gmail.com	abcd1234	Shubham	9871688973

Secure | <https://files.000webhost.com>

000webhost restricting-writer > public_h... > pictures

	<input type="checkbox"/>	Name ▼	Size	Date	Permissions
▼ /					
▼ public_html					
▼ pictures	<input type="checkbox"/>	1.JPG	33.6 kB	2017-11-07 11:03:00	-rw-r--r--
	<input type="checkbox"/>	2.JPG	18.3 kB	2017-11-07 11:04:00	-rw-r--r--
> tmp	<input type="checkbox"/>	3.JPG	29.1 kB	2017-11-07 11:06:00	-rw-r--r--
	<input type="checkbox"/>	4.JPG	30.4 kB	2017-11-07 11:09:00	-rw-r--r--
	<input type="checkbox"/>	5.JPG	32.6 kB	2017-11-07 11:10:00	-rw-r--r--
	<input type="checkbox"/>	6.JPG	11.9 kB	2017-11-07 11:11:00	-rw-r--r--
	<input type="checkbox"/>	7.JPG	1.3 MB	2017-11-07 11:12:00	-rw-r--r--
	<input type="checkbox"/>	8.JPG	467.4 kB	2017-11-07 11:13:00	-rw-r--r--
	<input type="checkbox"/>	9.JPG	71.9 kB	2017-12-03 19:57:00	-rw-r--r--

Secure | <https://files.000webhost.com>

000webhost restricting-writer > public_html

	<input type="checkbox"/>	Name ▼	Size	Date	Permissions
▼ /					
▼ public_html	<input type="checkbox"/>	pictures		2017-12-03 19:57:00	drwxr-xr-x
> pictures	<input type="checkbox"/>	.htaccess	0.2 kB	2017-02-09 00:00:00	-rw-r--r--
> tmp	<input type="checkbox"/>	Fetch_Details.php	0.9 kB	2017-10-10 16:11:00	-rw-r--r--
	<input type="checkbox"/>	Fetch_User_Details.php	0.8 kB	2017-10-12 16:13:00	-rw-r--r--
	<input type="checkbox"/>	Login.php	0.9 kB	2017-09-25 12:41:00	-rw-r--r--
	<input type="checkbox"/>	Posted_Books.php	1.0 kB	2017-12-03 09:40:00	-rw-r--r--
	<input type="checkbox"/>	Register.php	0.6 kB	2017-10-07 12:36:00	-rw-r--r--
	<input type="checkbox"/>	Upload.php	1.4 kB	2017-09-25 14:34:00	-rw-r--r--