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**BELAGAVI-590018, KARNATAKA**



**A Mini Project Report**

**On**

**“Library Application”**

**Submitted in Partial Fulfillment of the Requirement for**

**“Mad Laboratory with Mini Project-VI Semester”**

**For the Award of Degree**

**BACHELOR OF ENGINEERING**

**IN**

**COMPUTER SCIENCE & ENGINEERING**

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## ABSTRACT

In this Library Application project, the focus is on providing users with seamless book reading and management capabilities. Users can explore the entire book collection through the 'all-books' button, select specific books to view a short description and author details, and even dive into a dedicated page for each book, offering options to add it to favorite, currently reading, or completed reading lists. The user-friendly interface features four main buttons: 'all books,' 'favorite books,' 'completed reading books,' and 'currently reading books.' An expandable card view showcases book cover images and essential details, ensuring an engaging experience. Books are efficiently organized using a RecyclerView, allowing users to add, remove, and manage their reading lists with ease. Efficient book management is a highlight, with the ability to add books to the preferred lists directly from the home page. Users can choose from the three button options, tailoring their reading journey to personal preferences. Importantly, the application recognizes the dynamic nature of reading choices, allowing users to remove books from lists and manage their selections as their preferences evolve.

## CHAPTER 1

### INTRODUCTION

#### 1.1 Overview of the project

Library application is a project built which is used to read the books for free and the user can manage the books by adding them to favourite books list or currently reading list or already read list such that it becomes easier to the user to keep track of the books which he/she has already encountered. When the app is opened it displays the logo and the name of the app and it displays four buttons called “All Books”, “Favourite Books”, “Currently Reading Books”, “Completed Reading Books”. The user can choose any button. If the user wants to see all the books that are present in the app, then user can choose “All Books” button which navigates the user to a page which contains all the books present in the app, the books are arranged one below the other and displays the book cover and the name of the book on a card which can be expanded which shows the author’s name and a short description of the book. If the user likes the book he/she can click on the book which navigates the book to another page which displays the book cover, name, author’s name and three buttons called as “Favourite Books”, “Currently Reading Books”, “Completed Reading Books” and the user can scroll down to read the book. The three button options help the user to add the book into those categories, the user can add that book to any of those categories by clicking on the button it navigates to the chosen category list. This way the user can view the book added to the list even from the home page by clicking on that category button. Suppose the user wants the book to be removed from the list he/she can expand the card and click on the remove button which displays an Alert Dialogue asking if the user is sure to remove or not and if the user clicks on “yes” the book will be removed from the list.

#### 1.2 Aim of the project

This project is built to make it user friendly and allow the user to read and manage his/her books in the library such a way that it becomes easier to the user to find the book which the user has added it in favorite, completed or currently reading books instead of searching the book among all the books in the library. Also, the user can remove the books from the categories and can maintain his/her very own library.

In this Library Application project, the user experience is meticulously crafted to enable seamless book reading and efficient management within the application. The interface presents a user-friendly design with key features for a captivating literary journey.

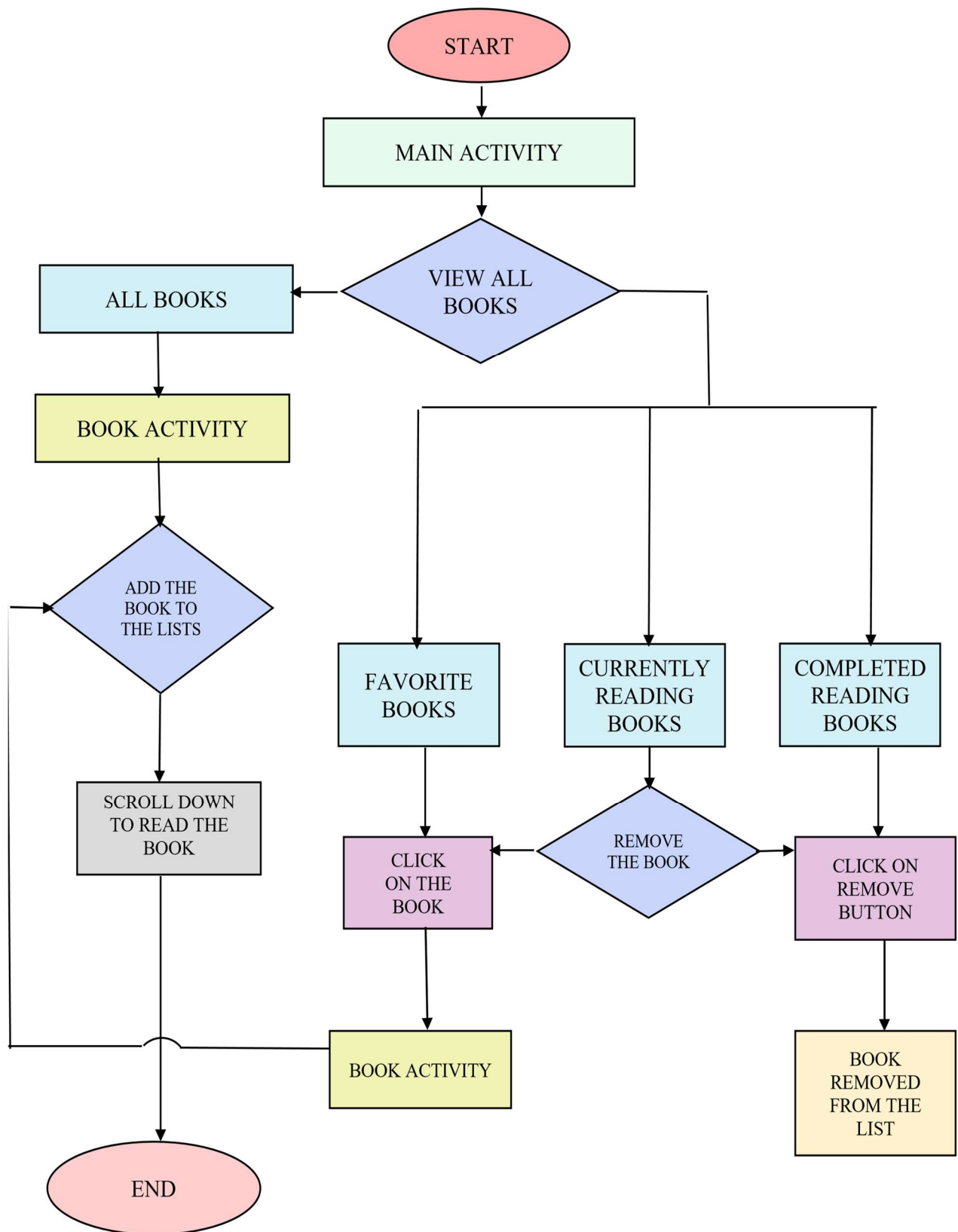
Users gain access to the entire book collection by utilizing the 'all-books' button, providing a centralized starting point for exploration. Upon selecting a book from the list, the application offers an interactive card view that can be expanded. This expanded view not only reveals the book cover image and title but also provides a concise description of the book and details about the author.

For a deeper dive into a chosen book, users are directed to a dedicated page displaying the book's title and author. Here, three buttons present options to add the book to customized lists—favorites, currently reading, or completed reading. As users scroll down, they seamlessly transition into the immersive reading experience.

Efficient book management is a highlight, with the ability to add books to the preferred lists directly from the home page. Users can choose from the three button options, tailoring their reading journey to personal preferences. Importantly, the application recognizes the dynamic nature of reading choices, allowing users to remove books from lists and manage their selections as their preferences evolve.

The user interface is thoughtfully designed with four main buttons—'all books,' 'favorite books,' 'completed reading books,' and 'currently reading books.' This intuitive layout ensures easy navigation and efficient organization of the diverse book collection. Additionally, the application incorporates an expandable card view, showcasing book cover images, titles, and author details. When expanded, this view offers a more comprehensive insight into the book, fostering an engaging and informative experience.

To enhance visual appeal and organization, the application utilizes a RecyclerView, providing a streamlined and visually pleasing presentation of books. This combination of thoughtful design, interactive features, and efficient organization contributes to an enriched reading environment, making the Library Application a user-centric platform for literary exploration and management.

**DESIGN**

## SNAPSHOTS

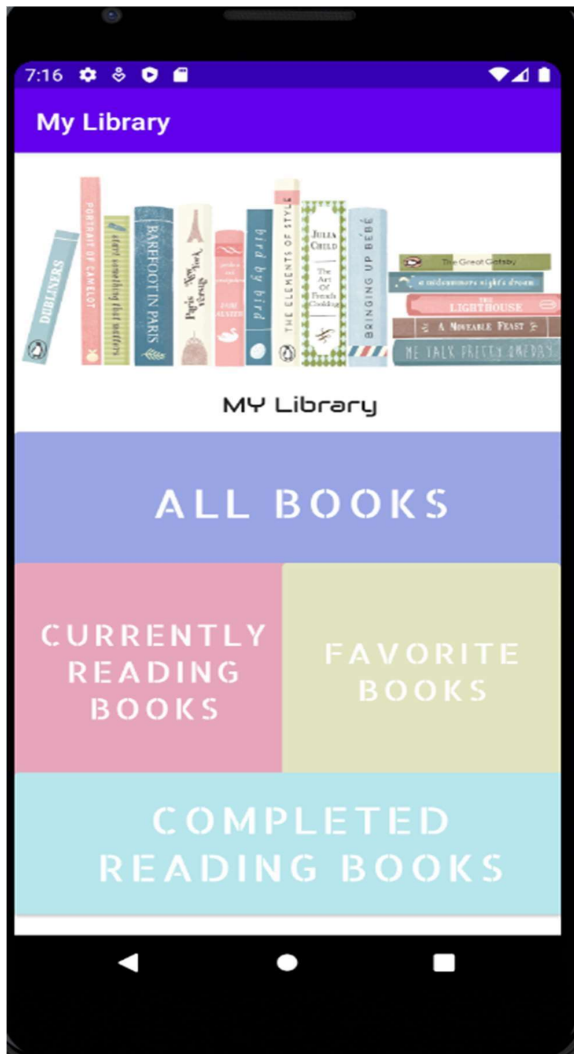


Figure 1.1: Main Page

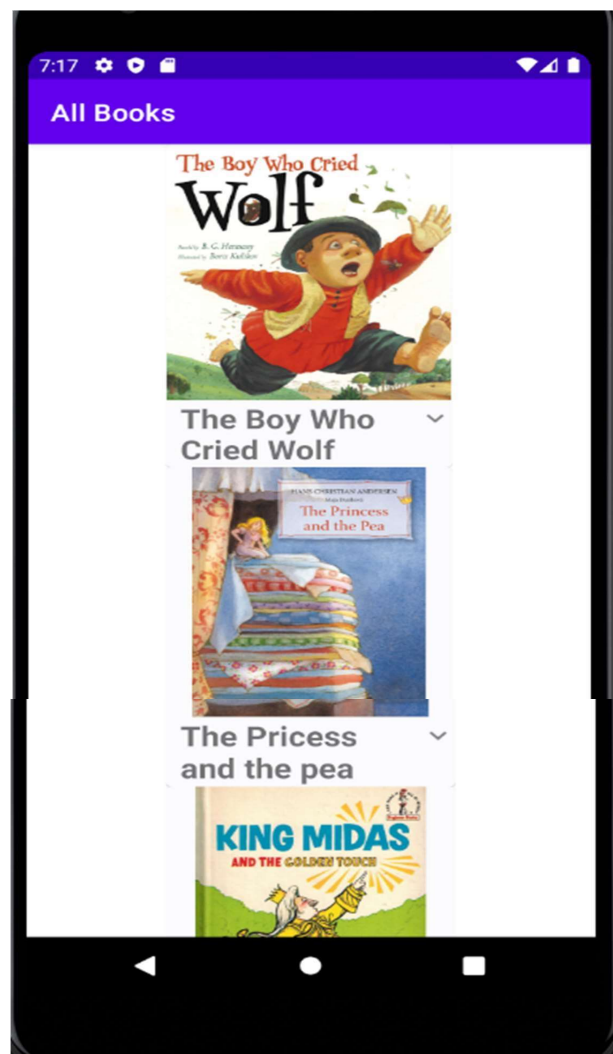


Figure 1.2: All Books Page



Figure 1.3:Book Activity Page

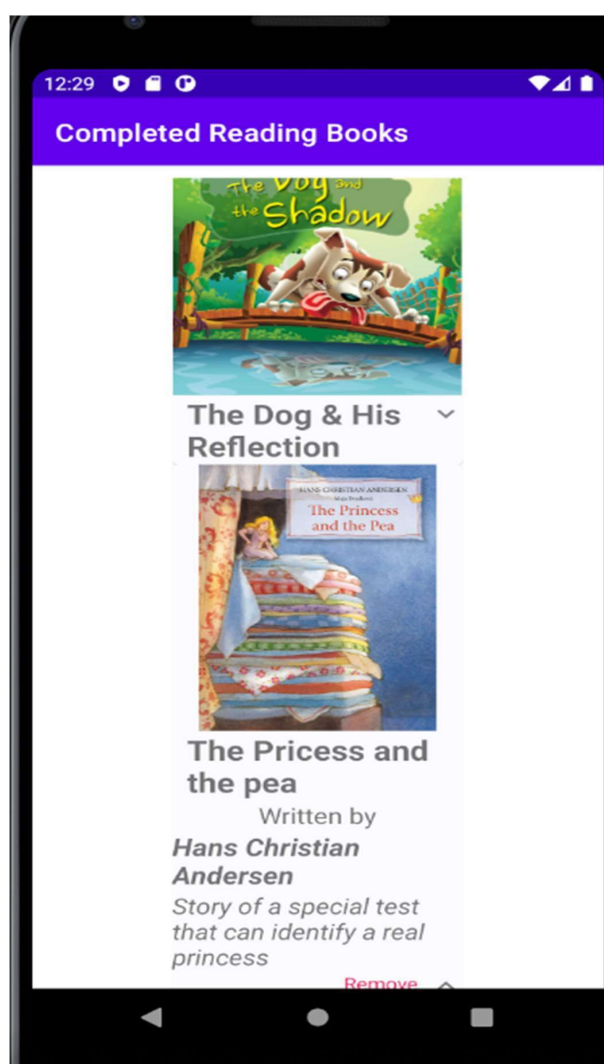


Figure 1.4:Completed Reading Books Page

## CONCLUSION

In conclusion, the Library Application project stands as a testament to the fusion of user-centric design and technological innovation in the realm of literary exploration. By seamlessly integrating features that enhance both the reading experience and book management, this application offers a holistic solution for bibliophiles. The project's commitment to accessibility is evident in the user-friendly interface, where a simple click on the 'all-books' button opens the doors to a vast and diverse collection. The interactive card view not only engages users with captivating visuals but also provides essential information about each book and its author, enriching the selection process. The dedication to user empowerment is further exemplified by the dedicated book pages, allowing readers to customize their literary journey with options to add books to personalized lists. The dynamic nature of these lists, accommodating additions and removals, mirrors the evolving preferences of readers over time. The intuitive layout of the interface, featuring four main buttons, ensures efficient navigation and organization, while the incorporation of a RecyclerView enhances the visual appeal and organization of the book collection. This project transcends the conventional boundaries of a library application, transforming it into a personalized literary haven. As I conclude this venture, it is clear that the Library Application project goes beyond being a mere repository of books; it is a dynamic platform that celebrates the joy of reading while providing users with the tools to curate their literary journey. This project is not just a technological endeavour but a thoughtful companion for those who seek not just books, but a personalized and enriched reading experience.

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