

# Reading Book Management App

The Reading Book Management App helps students as well as readers in general to manage their reading process. With this app users can keep track of reading plan and form reading habit.

## Team

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## Projektidee

Reading books is a great habit and plays an important role in daily life. But in modern days one has to deal with too many things and that makes the reading process not so efficient. For this reason, we develop a tool to improve that process and can help students and readers in general.

With the help of this tool users can create their own library, in that they can add/update/remove a book. Each book will come with a name/title, book cover, author, rating, language, category, number of pages and users can add more properties like status (to read/currently reading/completed), favorite, progress bar, personal notes.

## Funktionsumfang

Feature	Usage and tools
Create list	Create a book list in ROOM/SQLite
Add book	Add a new book by searching the book name, fetch books information (name, author, cover, rating, language, category) from Good Note/Google API, HTTP request, parsing JSON, Interaction using Volley Add status, add currently reading page and calculate the reading progress percentage using input (currently reading page) from users.
Update book	Update book's properties, edit status/progress, add personal notes
Remove book	Remove book from list
Find nearby bookstore	Find nearby bookstore with interaction with Google Map browser/app

## User Interface

<< Notieren Sie für jeden der wesentlichen Screens Ihrer Anwendung einen vorläufigen Titel und eine kurze Beschreibung der Aufgaben bzw. Funktionen dieses Bereichs. Fügen Sie dem Dokument eine ordentliche, vollständige und gut kommentierte Zeichnung des jeweiligen Screens bei. >>

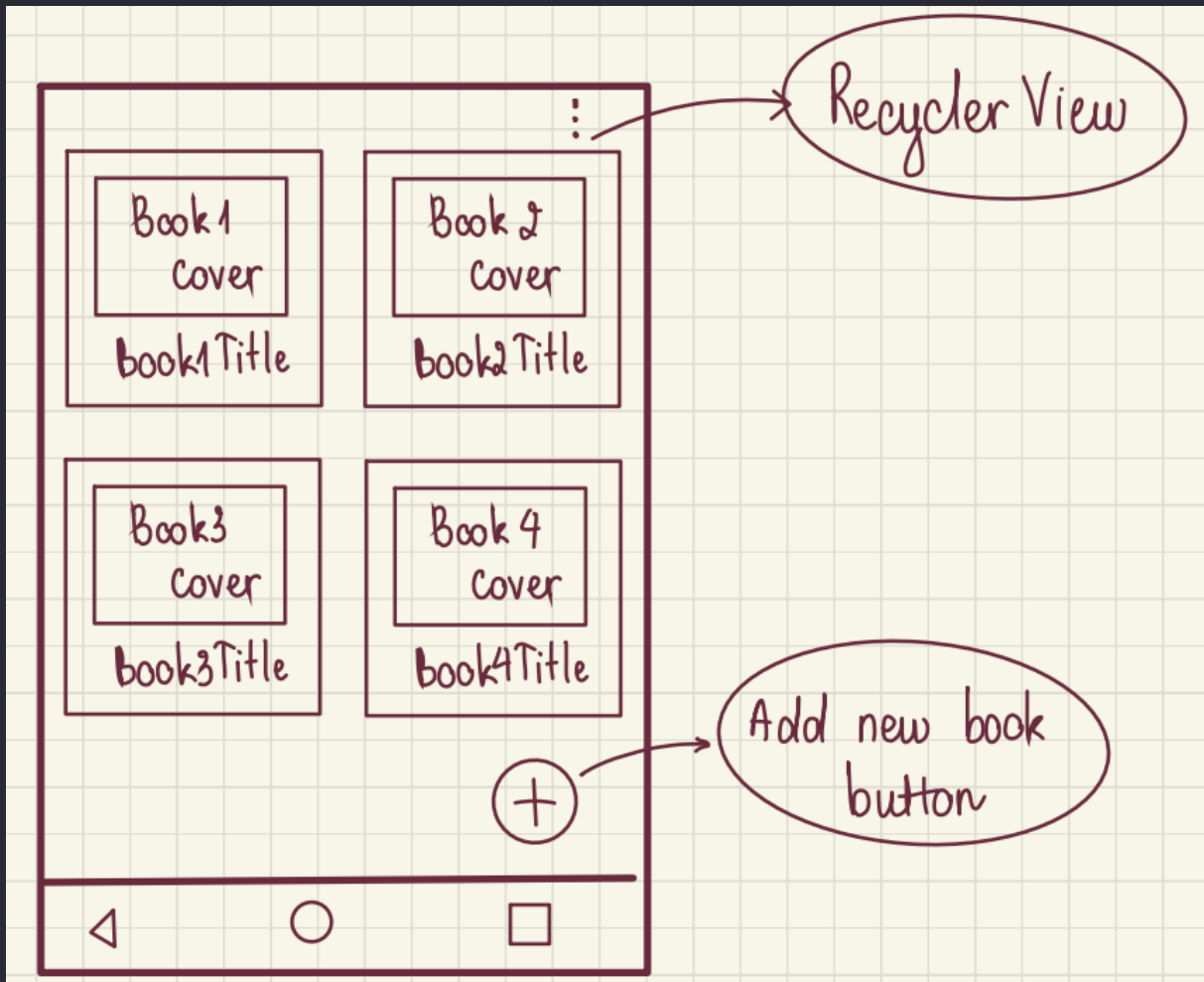


Abbildung 1: main activity - show all the books in list and button to add book

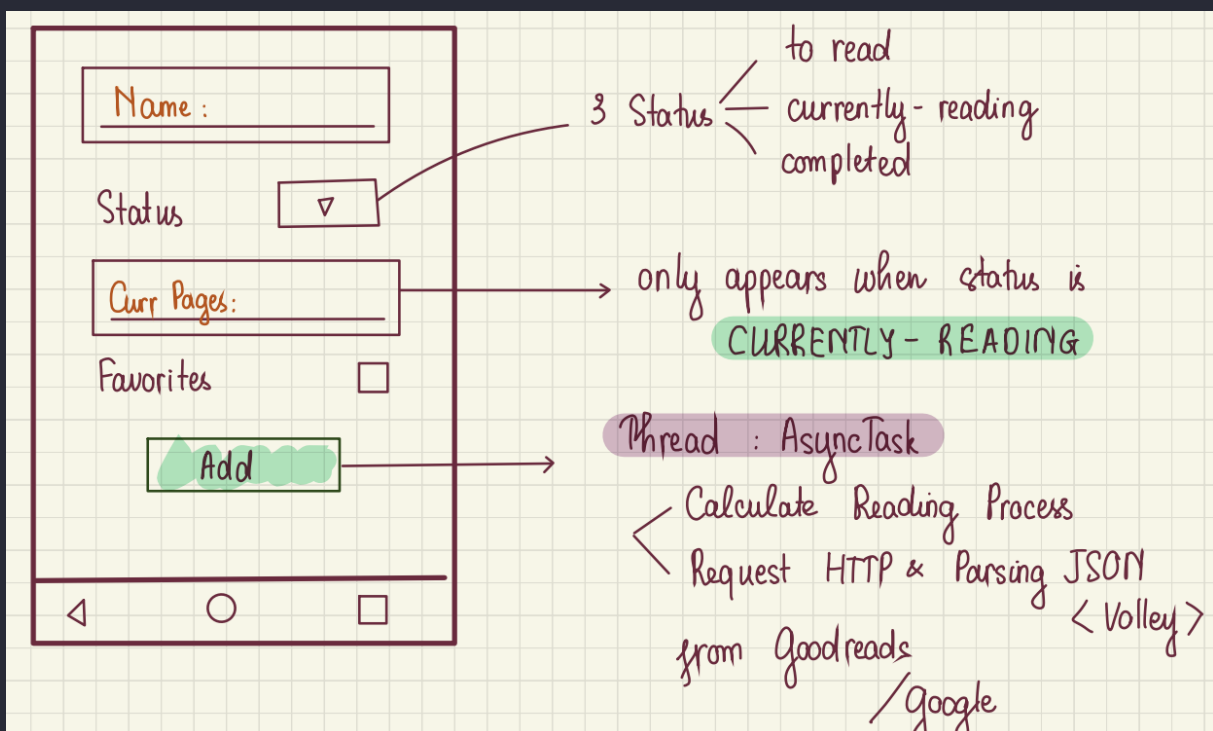


Abbildung 2: add a book: search bar for book title, add status, and add book to library



## Mobile Apps für Android

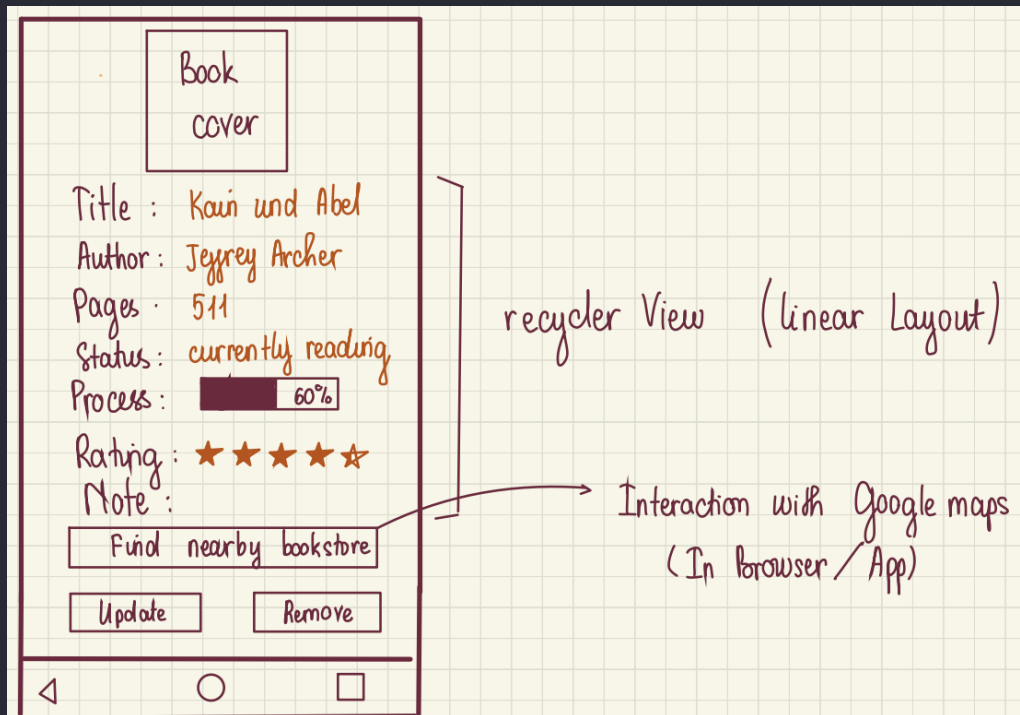


Abbildung 3: Book information: show information of the book and options to find nearby bookstores, update book's information or remove the book

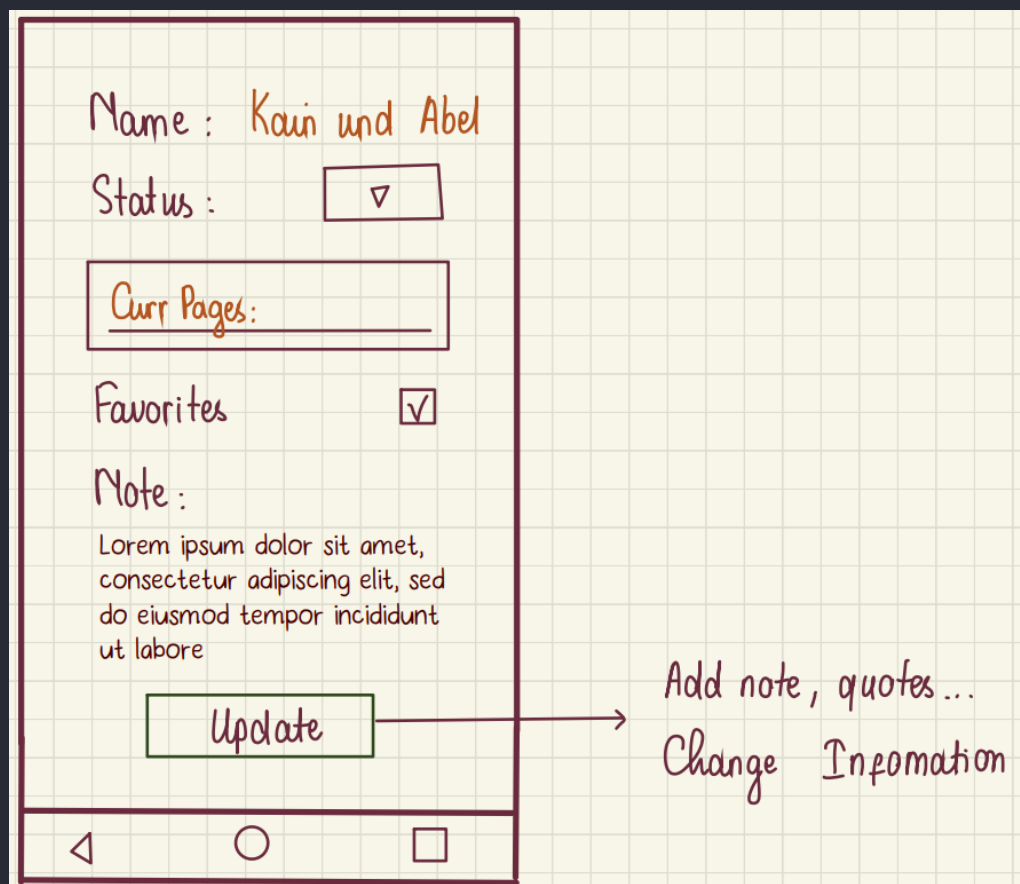


Abbildung 4: Update book: here users can change the status of the book, the currently reading page, add note and update the book, when the update button is clicked then the app will change the information of the book and goes back to book information layout



# Mobile Apps für Android

## Software Design

<< Erstellen Sie eine grobe Liste der Codebereiche innerhalb Ihrer Anwendung. Notieren Sie jeweils, welche Aufgaben die jeweiligen Elemente für die Umsetzung der App-Funktionen übernehmen werden. >>

Main activity:

- onClickOpenBook – open activity book information
- onClickAddButton – open activity add book

Add book activity:

- editText Name: input book title and fetch book with same/similar title from database
- Status: choose status for book - to read/currently reading/completed
- input Current page: get input for current reading page
- check box for favorite book
- button Add: calculate the progress percentage, add book and extra information to book, open activity Book information

Book information activity:

- display book information, show progress bar
- button Find nearby bookstore: interact with Google Map app
- button Update: open Update book activity
- button Remove: remove book from library

Update activity:

- display book title
- spinner Status: get status input
- editText currentPage: get input new current reading page
- check box Favorite
- editText addNote: get input for note
- button Update: update book information and open Book information activity