Booked

CS 410 | Team Gold | 19 October 2022

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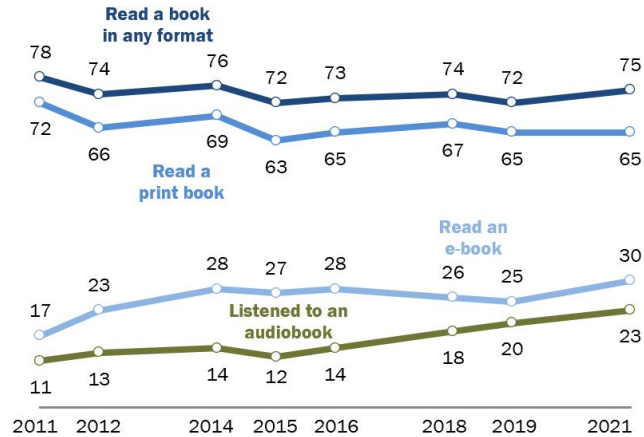Yao Wang

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Problem Background

Print books continue to be more popular than e-books or audiobooks

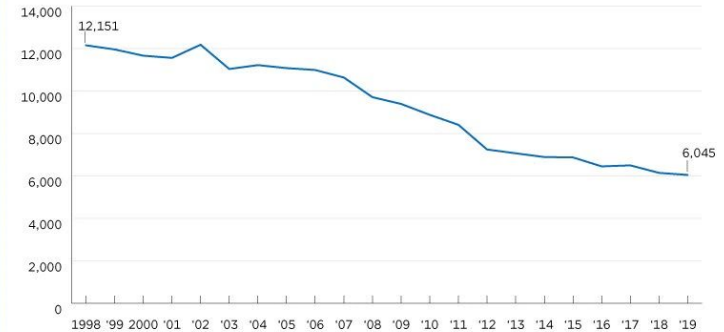*% of U.S. adults who say they have ____ in the previous 12 months*

Read a book in any format
78   74   76   72   73   74   72   75

Read a print book
72   66   69   63   65   67   65   65

Read an e-book
17   23   28   27   28   26   25   30

Listened to an audiobook
11   13   14   12   14   18   20   23

2011 2012 2014 2015 2016 2018 2019 2021

Note: Those who did not give an answer are not shown.
Source: Survey conducted Jan. 25-Feb. 8, 2021.

PEW RESEARCH CENTER

Number of U.S. Bookstores: 1998–2019

12,151

6,045

14,000
12,000
10,000
8,000
6,000
4,000
2,000
0

1998 '99 2000 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15 '16 '17 '18 '19

Source: 1998 to 2019 County Business Patterns.

Problem Background *cont.*

- Decrease in physical bookstores and increase in online bookstores
- Not all book retailers list the same criteria
  - Type, edition, condition, etc.
  - Buy vs. Rent
- Hard to find the lowest overall cost when buying books online
  - Booksellers often tack on additional fees that balloon the total price
  - General increase in shipping and handling costs due to COVID 19

Problem Statement

There exists no platform that allows a user to search for a book based on its type (physical or electronic), edition (e.g., hardcover or paperback), and condition (new or used) as well as display its cheapest total cost.
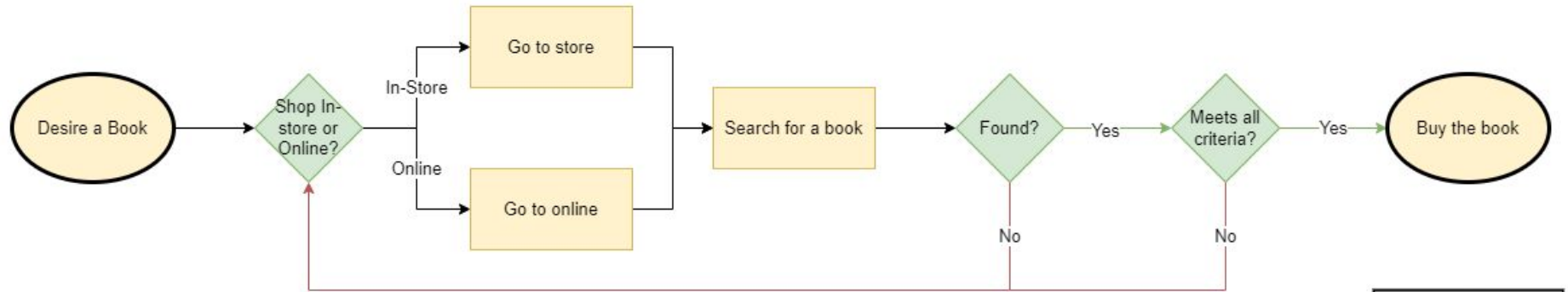
Customers & End-Users

- Customers: independent bookstores, schools
- End-Users: book-lovers, teachers/educators, students

Current Process Flow

*Criteria: type (physical or electronic), edition (e.g., hardcover or paperback), condition (new or used)

Key	
Yellow - Process	
Green - Decision	

Solution Statement

Booked is a web-based application that shows users where to purchase a book based on its type, edition, condition, and lowest total cost.
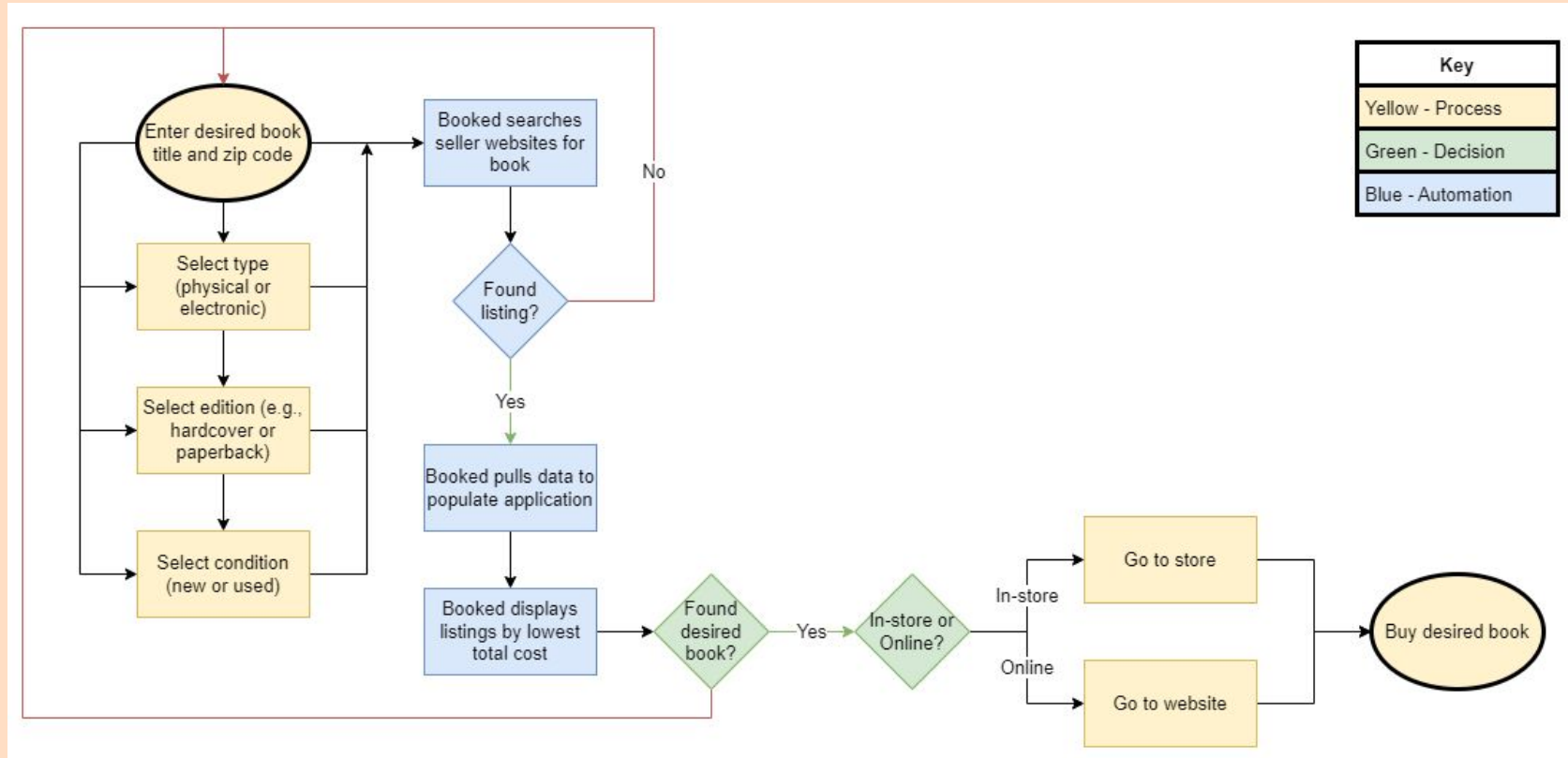
Solution Characteristics

- Booked will save time and money during the book-searching process by laying out the type, edition, condition, and cost for the customer.
  - Will be done by database searching and web scraping
- For those who prefer to shop online, they are presented with a link to seller's website.
- Those that prefer in-person shopping will be presented with bookstore's address.
  - Will introduce user's to local, independent businesses

Solution Process Flow

Competitors

Competition

Functionality	Booked	Biblio	BookFinder	Bookshop	Amazon	AskMissy
Find physical books and e-books	✔	✔		✔	✔	✔
Sources include independent bookstores	✔	✔	✔	✔		✔
Offer new and used books	✔	✔	✔		✔	
Filter and sort by edition	✔					✔
Filter and sort by book condition	✔	✔				
Show total cost	✔					
Recommend books				✔		✔
Limited to learning resources						✔

Risks

- Needs a security system to prevent hackers from tampering with the website
- Ensure the websites we're pulling information from are trustworthy
- Needs a backup system for maintenance purposes

***risk matrix

Conclusion

- More Search Criteria Options
- Exact Matches
- Local Results
- Cheapest Option

***what booked will do vs. what booked will not do

Thank you!

References

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