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ABSTRACT

The purpose of this project was to improve the UI design of King County Library System's mobile app. KCLS patrons use the app to browse the library catalogue, place holds, check out digital materials and track their account. The app has several flaws that impede smooth navigation. These were discovered by analyzing it through the UI principles learned during the course, and by testing a novice user who didn't have experience using the app. I tasked the user with checking out an e-book relative to the topic of Abraham Lincoln's 1860 campaign for the US presidential election, opening it and returning it. I purposefully chose a specific topic and not a title, because a topic such as this require more information-digging on the user's part. These observation stood out: the cards for each item on the search result page have too much information and take too much space, the individual item pages contain too much description and unnecessary content that can be tiring to navigate, the bottom menu bar has confusing labels and opening a checked out e-book takes too many unnecessary steps. During the project, and in addition to the analyzed task, I realized that the library did a poor job in promoting its numerous and lesser-known services, and that the app could offer up space for the promotion. For the redesign, I observed similar catalogue apps, including an IKEA catalogue app. My redesign was based on the building blocks of atoms and molecules, which combine to form organisms, templates and pages applied throughout the whole app. KCLS' logo colors are red, black and white, so for the palette I used white, black and burgundy to add visual interest, because red might be too bright and distracting. The interplay of burgundy and green, featured in some pages, follows the utilitarian implication of red and green lights. This is my first UI project, and the first time that I used the software Figma to design. I look forward to exploring it further with new features such as a visualization of search refin the barcode scanner, custom user lists, and pages for each library

OBJECTIVES

- Reduce the number of steps for checking out and returning
- Establish a design system
- Promote the library's services on the first page.
- Improve verbiage on labels.

METHODS

- · UI analysis Competitive analysis
 User interview, observation and testing
- User persona
- Journey mappingTask Analysis
- · Sketching
- Wireframing
 Structuring UI components · Icon design
- UI design with Adobe Illustrator and Figma
- Prototyping

CONCLUSION

- The steps to check out an item were reduced from 9 to 6. The method of atomic design proved to be a sustainable and structured way of designing repetitive components with varied
- The content has been designed to suit an app with easier discoverability of important information.
- Future iterations will involve user testing of the design.
 Next design challenges: UI of search refinement and scanning.

Keyboard design taken from Material Design Kit 3

Description of the structure of UI components. Taken from Atomic Design Atomic Design Methodology Chapter 2, by Brad Frost. https://atomicdesign.bradfrost.com/chapter-2/#:~:text=Atoms%20are%20UI%20elements%20that,discrete%20sections%20

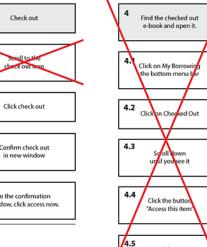
Photos used for the home page cards taken from Unsplash/Adobe

Emojis taken from www.streamlinehq.com

PROCESS HIGHLIGHTS

User flow chart User experience and interaction Enter words in Retry same Clicks on first Clicks on second Clicks on third Check out Access checked design cannot happen without first-hand observation of the user and their interaction with a design. Lassigned a participant and novice user of the KCLS app the task to check out an e-book about Abraham Lincoln's campaign for the 1860's US presidential elections The task gave a specific topic rather than a title, so that the user would be Reading "About This Title": prompted to navigate the catalogue, find descriptions of the items and in doing so, spend more time interacting with the interface, rather than just scanning a earch result for a title. The user struggled with navigating the nformation, and once the item was found, it took a lot of trial and error o locate the checked out item, which oddly is not available right away after it's hecked out, but needs to be dug out rom another section of the app. actions, reactions, body language and quotes that might be insightful to their

Task Analysis



helped identify the steps that are taken to complete the task of finding and checking out the e-book. These are grouped into major steps and their substeps. A chart is made to clearly visualise and quantify the

It didn't take much review to discover that finding a checked out e-book took an unreasonable amount of steps. The need for to look for an item that's been just checked out seems to be an unecessary

Hence, the task analysis chart allowes change the sequence of steps for a task

PAGES

Scan a barcole Refine Search

Structure of UI componenets

Find an item from results

ATOMS

Click on search icon

Type the word: to search

1.3 Click magnifying glass icon in the keypad to searc

> UI elements that can't be broken down any further and serve as the elemental building blocks of an interface.

> > Place a hold

Check out

(II)

MOLECULES

Are collections of atoms that form relatively simple UI components

Audiobook 2 copies available Check out

ORGANISMS TEMPLATES

Place components within a layout and demonstrate the design's underlying content structure.

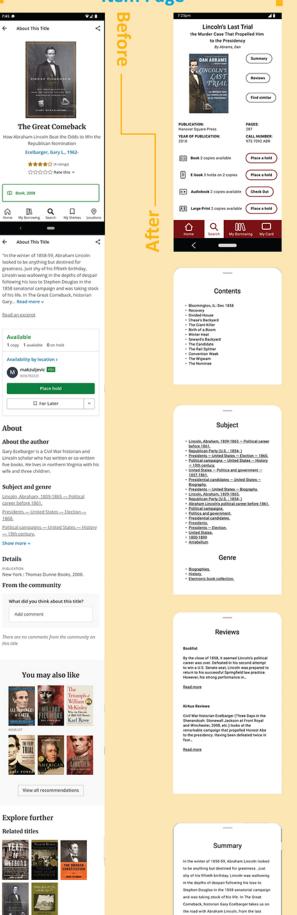


Place a hold Place a hold

Check out AB Large Print 1 copy available Place a hold

Item Page

RESULTS: some of the screens designed





left, displays a long scroll that is daunting to browse, and the

collapsed descriptive text had to

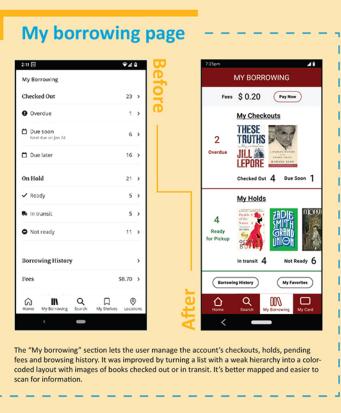
be first found in the scroll, and

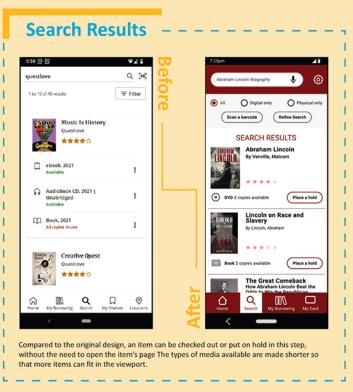
then to be expanded.

More about this title

More from the communit







https://www.figma.com/community/file/1035203688168086460