TRUDINH

# **CASE STUDY**

KING COUNTY LIBRARY SYSTEM MOBILE APP PROPOSAL

# THE TEAM

## **TEAM - NOT**

### **BEHIND THE NAME**

The story behind the team name "not" was that we are not just only a team, but more than that.

Partner, classmate, and friends.

### JESSICA SANTOSA

- RESEARCH
- PERSONA
- UI DESIGN
- PAPER PROTOTYPE
- PROTOTYPING
- USABILITY TESTING
- CASE STUDY DOCUMENTATION
- UX DESIGN

### **TRU DINH**

- RESEARCH
- COMPETITOR ANALYSIS
- PERSONA
- UI DESIGN
- STYLE GUIDE
- USABILITY TESTING
- CASE STUDY DOCUMENTATION
- PROTOTYPING

### YOUNGIL LEE

- RESEARCH
- CONTENT STRATEGY
- COMPETITOR ANALYSIS
- PERSONA
- UI DESIGN
- USER FLOW
- CASE STUDY DOCUMENTATION
- USER SCENARIO

# **CREATIVE BRIEF**

## KING COUNTY LIBRARY SYSTEM MOBILE APP

### CLIENT

#### **King County Public Library**

King County Library System is the public library system for the King County area. They have been serving the residents of King County, Washington since 1942. Their headquarter is located in Issaquah, Washington, and they are currently the busiest library system in the United State. The King County Library System consists of 48 libraries, circulating 22.4 millions items, a traveling library center, a mobile TechLab, and the ABC Express children's library van.

### THE PROBLEM

King County Library System has a beautifully built website with tons of contents and features. Sadly, the same couldn't be said for their mobile approach. Their mobile version website is at most usable with a simple layout design. On the other hand, their mobile app is very dull, unappealing, out-dated design, buggy, and features lacking. Since about 60% of the world Internet traffics come from mobile devices, being one of the busiest library system in the united state, we feel that it is very important for them to have a much better mobile presence than what they currently have.

### SOLUTION PROPOSAL

After analyzing their website and comparing it to their app, we spotted many inconsistencies happening with their content as well as their logo. Their website also has a much more modern feel compared to their mobile app. We are planning to improve their brand consistency as well as aesthetics by redesigning King County's Library System's mobile application. The Application would be readily accessible for free on the Apple Store as well as Google Play.

### TARGET AUDIENCE

Students Teachers & professors Family friendly

# **CONTENT STRATEGY**

### THE APPLICATION WILL FOCUS ON

- User Experience. Simple and clean design that would be easily understandable
- Professional tone of content
- Digital reading platform (ebook)
- Functionality
- Scanning bar-codes to easily access ISBN books
- Individual KCLS account for users to keep track of borrowed books
- Database only accessible if phone is online
- Device location services available for geographic searching

### **CONTENTS INCLUSION**

#### DIGITAL READING PLATFORM SERVICE

ebooks and audio-books purchase and rental

#### BOOK THUMBNAILS

new released book or bestseller book with thumbnails

#### LOG IN (ACCOUNT)

profile, borrowed book, and funds

#### SEARCH

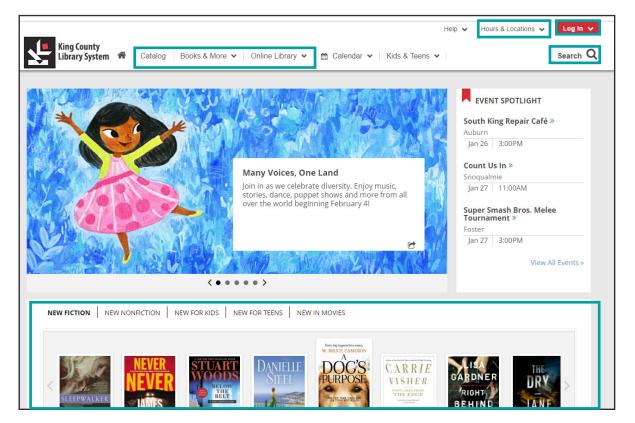
search book catalogs and resources from database

#### BOOK SCANNING (ISBN SCANNING)

feature to enable users to look for all available formats of the book

#### HOURS & LOCATION

connecting with navigation service



# **CONTENT STRATEGY**

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### CONTENTS EXCLUSION

#### **BIG IMAGES**

no space for it and lose of data

#### EVENT SPOTLIGHT

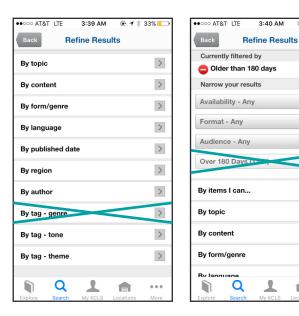
already in desktop and mobile website

#### BY TAG GENRE

exactly the same contents as by form/genre

#### ACQUIRED DROP-DOWN MENU

this feature is not frequently used and unnecessary



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#### **KCLS MOBILE | 5**

# **COMPETITIVE ANALYSIS**

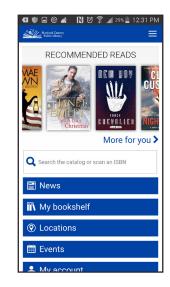
Through the analysis, we have seen some standard features and interactions that most library mobile apps should have. Most of library mobile app include book cover flows of recommended book and bestseller on the first page. They have hamburger menu containing "Catalog", "My Account", "Location", and "Search" menu. They also put a search bar on the first page to minimize the user effort to search a search function. All competitors support the scanning service for ISBN, book bar-code, and library card bar-code by phone's camera.

#### **CUYAHOGA COUNTY** PUBLIC LIBRARY



HAMBURGER MENU BOOK COVER FLOW SEARCH BAR SOCIAL MEDIA SCANNING SERVICE

#### HARFORD COUNTY PUBLIC LIBRARY



HAMBURGER MENU BOOK COVER FLOW SEARCH BAR SOCIAL MEDIA SCANNING SERVICE

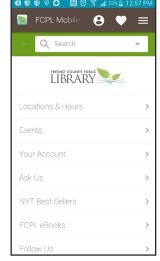
#### **NEW YORK** PUBLIC LIBRARY



HAMBURGER MENU BOOK COVER FLOW SEARCH BAR SOCIAL MEDIA SCANNING SERVICE

HAMBURGER MENU **BESTSELLER TAB** SEARCH BAR SOCIAL MEDIA SCANNING SERVICE

## **FRESNO COUNTY**



## PUBLIC LIBRARY 0

# **COMPETITIVE ANALYSIS**

## CUYAHOGA COUNTY PUBLIC LIBRARY

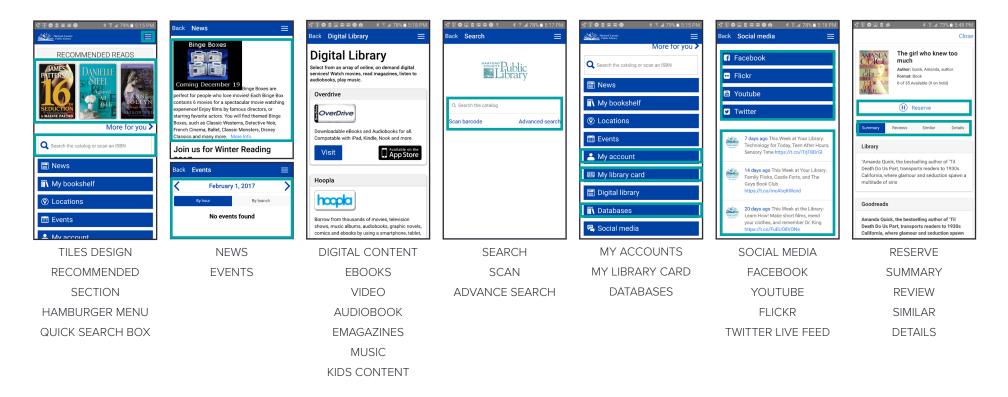
Compared to King Country's Library app, Cuyahoga County Public Library has a much more clear navigational system and despite of having much button at their homepage, they present useful contents that could not be found at King County's app such as an events page and a news page.

	Check out     Close       Scan the barcode to check this item out to your       Cuyshoga County Public Library account.       Check out       Back     News       We're tops in the nation!       Cophrage County Public Library has       highest order stand       Moritore Center Stand       Events       February 1, 2017       Bytoar       Bytoar       Bytoar       Bytoar       Scatter Orientation       © scatter Orientation	Image: Contract of the second seco	Image: State State 2: So PM         Details       Close         Bay Village Branch 502 Cahoon Road Bay Village 4140 440-871-6392       So Participation         Image: State 2: So Participation       So Participation         Image: State 2: So Participation       Image: So Participation         Image: State 2: So Participation       Image: So Participation         Image: State 2: So Participation       Image: So Participation         Image: State 2: So Participation       So Participation         Image: So Participation       So Participation	<text><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></text>	Adv 2002 M 2 4 5 4 5 6 4 5 0 0 22 PM Back Social media      Control Conted Control Control Control Control Control Control Control Contro	Close Close Convertient of the close Convertient of the close Conve
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SECTION	NEWS	PICTURE OF	ABOUT	VIDEO	YOUTUBE	SUMMARY
HAMBURGER MENU	EVENTS	LOCATION	MAP	AUDIOBOOK	TWITTER LIVE FEED	REVIEW
QUICK SEARCH BOX		DISTANCE	DIRECTION	EMAGAZINES		SIMILAR
		ADDRESS	ADDRESS	MUSIC		DETAILS
		PHONE NUMBER HOURS		KIDS CONTENT		

# **COMPETITIVE ANALYSIS**

## HARFORD COUNTY PUBLIC LIBRARY

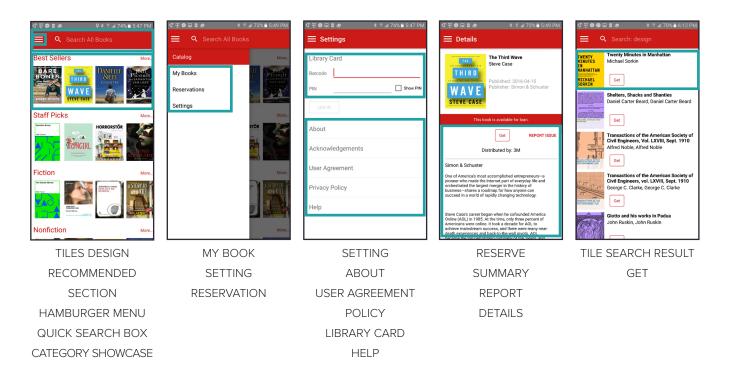
Harford County Public Library has a similar navigational system and hierarchy as the Cuyahoga County Public Library application. However, they have a blue color scheme that emphasizes intellect and has a more peaceful feel to it. We could also see some of their posts on their social media page rather than having to open another app to view their posts. Another thing that we can find at their app is that they have a digital library page where they refer us to other apps or site that has online digital book services.



# **COMPETITIVE ANALYSIS**

## NEW YORK PUBLIC LIBRARY

The New York Public Library app has the most different look than the other library apps. When you open the app, you will be directed to the catalog page which shows categories of books in a card-style interface design. They also have a good brand consistency and we feel that we should keep our app design clean and simple just like New York Public Library's interface. However, we feel that they lack in content and they definitely should adopt a bar-code scanning system to their app.



# **COMPETITIVE ANALYSIS**

## FRESNO COUNTY PUBLIC LIBRARY

Fresno County Public Library had successfully chose a good color scheme for its app. They develop a brand identity that uses leaves and a green color that signifies growth and quality. However we spot an inconsistency when comparing their android app to their IOS app. The design is much more modern at their Android app as they use flat colors and design while Freshno County Public Library's IOS app still uses gradient colors.

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TILES DESIGN	ACCOUNTS	SEARCH LOCATION	OTHER INFORMATION	CONTACT PAGE	SOCIAL MEDIA	HOLD
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QUICK SEARCH BOX	SCAN	PHONE NUMBER			YOUTUBE	SIMILAR
QUICK SAVE	ABOUT	HOURS				DETAILS
		OTHER INFORMATION				
		EVENTS				

# **COMPETITIVE ANALYSIS**

### **USER NEEDS**

- Resource search
- Ability to check all available platforms of a specific book
- Capability to manage book rental and profile
- Share or get information about books via social media
- Navigation to search a nearest library by GPS

#### **ADOPTING**

- Book code scanning service
- Design consistency with the logo
- Book feedback feature in book description section

#### **UNNECESSARY**

- Unnecessary information detracting from key features
- Low resolution imagery
- Easy to understand UI

# **HEURISTIC ASSESSMENT**

#### VISIBILITY OF SYSTEM STATUS

- Pop-up message on current status.
- Spinning circle loading animation, signifying you that the connect is loading.
- On android, for the community activity section, there is no loading status to let the user know if there is any content that is being loaded, it just a blank section.

#### MATCH BETWEEN SYSTEM AND THE REAL WORLD

- On IOS, a house icon is use for location, uncommon and unusual.
- On the book profile page, the three icons on the top of the page is very unusual, confusing, and hard to understand.
- On Android, login error, "you have not entered your credentials." It is uncommon to use "credentials" as login information.

### USER CONTROL AND FREEDOM

- Universal back button
- There is no home button on android, logo don't take you back to home
- Refining search result

#### CONSISTENCY AND STANDARDS

- Design style is inconsistence
- Universal option icons
- Inconsistence logo from website
- Consistence color scheme
- Inconsistence covers size
- Inconsistence UI between IOS and Android

#### **ERROR PREVENTION**

- Confirmation message
- Login pop-up when u try to place book on hold

#### **RECOGNITION RATHER THAN RECALL**

- Setting to remember your login
- When checking for book availability, missing book title, reminding you what book you are trying to check for
- No option to save your local library

### FLEXIBILITY AND EFFICIENCY OF USE

- Minimal shortcut feature for experienced user
- There is only one way to do each function
- Add rating and reviews
- Bookmarking title
- Setting prefer location

### **AESTHETIC AND MINIMALIST DESIGN**

• The application design is very minimal, too bare.

### HELP USERS RECOGNIZE, DIAGNOSE, AND RECOVER FROM ERRORS

Error message

### HELP AND DOCUMENTATION

- "Help" page
- Send feedback"ask" link, to contact the library for more help

# PERSONA



AGE: 32 years old FAMILY: Married, 1 son LOCATION: Auburn, WA WORK: Interior designer SALARY: \$68,597 TECHNICAL SKILL: Advanced LIBRARY VISITATION: Few times a week

### SELENA HEART SENIOR INTERIOR DESIGNER

Selena is an interior designer and a mom who is so passionate about 6 years old son's education. She wants her kid to read as many books as possible, so her family often visit Auburn Library which is under King County Library System to rent books.



AGE: 20 years old FAMILY: The only daughter LOCATION: Tacoma, WA WORK: Part-time Starbucks barista SALARY: \$17,655 TECHNICAL SKILL: Advanced LIBRARY VISITATION: Five times a week

### **ELEANOR BOYLE** ARCHITECTURE STUDENT

Eleanor is a freshman at UW Tacoma and she had finally decided on taking Architecture as her major. She is currently taking basic level architecture classes and is trying to familiarize herself with the history of architecture. In order to do this, she would need to do a lot of reading and her class also requires her to do many research papers.



AGE: 42 years old FAMILY: Married, no kids LOCATION: Bellevue, WA WORK: Interlake High School SALARY: \$50,565 TECHNICAL SKILL: Proficient LIBRARY VISITATION: Once a week

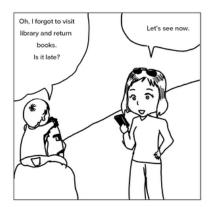
### SCOTT BELL HIGH-SCHOOL SCIENCE TEACHER

Scott is a middle aged male, teaching 9th grade chemistry at Interlake High school. He usually visit the library once a week for his leisure reads. Scott is currently researching on organic chemistry to plan a class lecture for his students. Scott is using the King county public library mobile application to find books that are currently available at his local library.

# **USER SCENARIO**









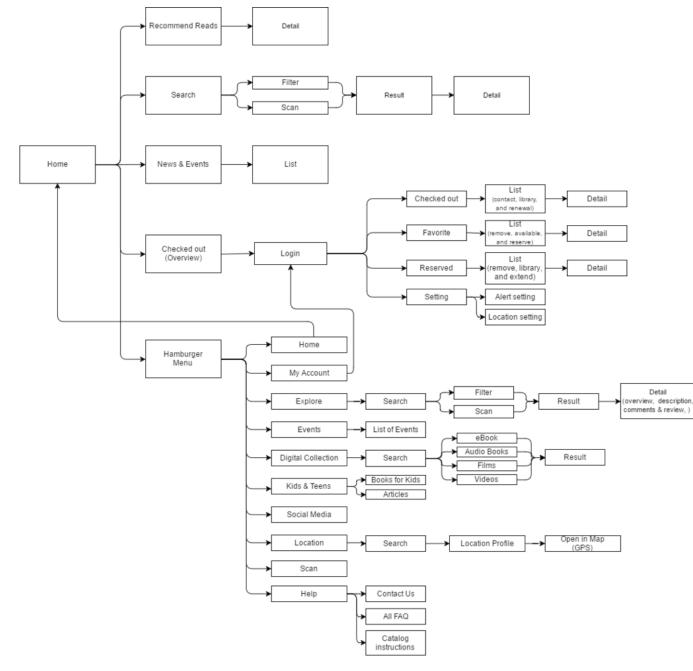








# **USER FLOW**



# **USABILITY TESTING**

## PAPER PROTOTYPE

### TASKS

#### Task 1

Search for a book title

Check for availability

Place the book under reservation

Task 2Search for a nearby King County Public Library

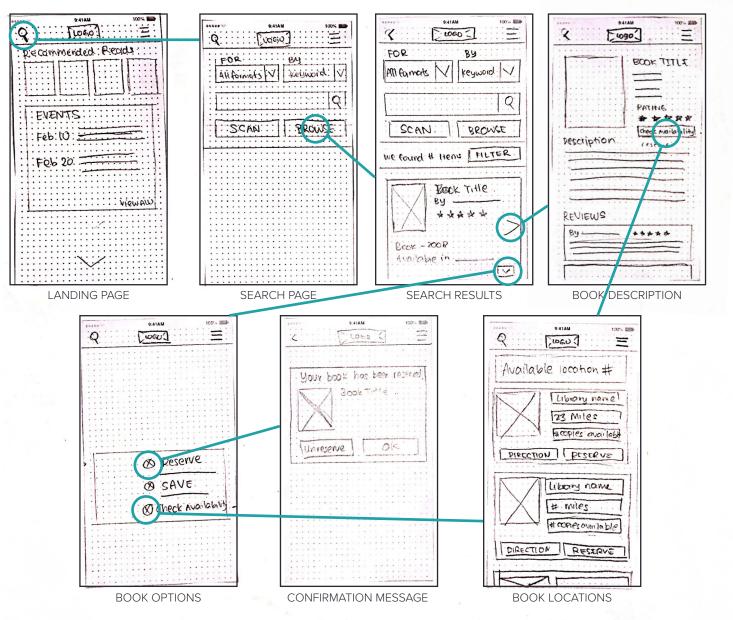
Find the library operating hours

### COMMENTS, PROBLEMS, AND CONFUSIONS

- User thoughts the search icon to be confusing.
- User were confused on the pop up screen with "reserve" and "save" as the options. User were confused on what function does "reserve" and "save" to have, as to they are too similar in wordings.
- User didn't know that the option icons on the book title tile were click-able.
- User believed that a quick access to emailing the library features should be added.
- The result page for book search were too confusing, causing user a long of period of time to comprehend the layout.

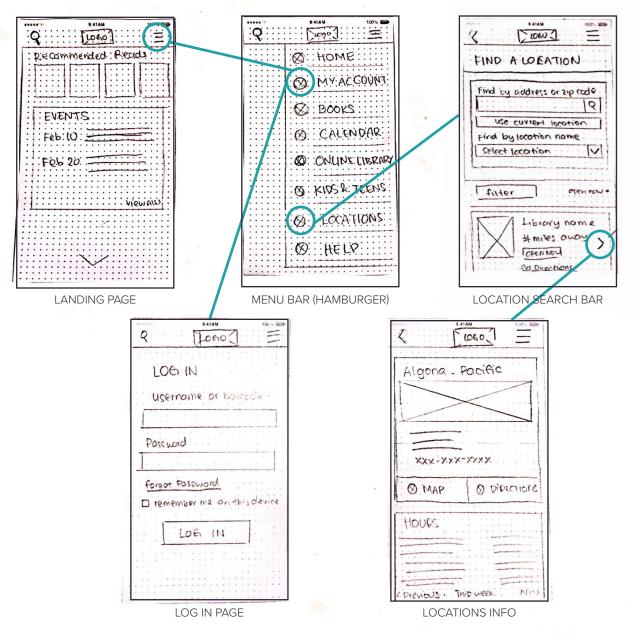
# PAPER PROTOTYPE

## TASK 1

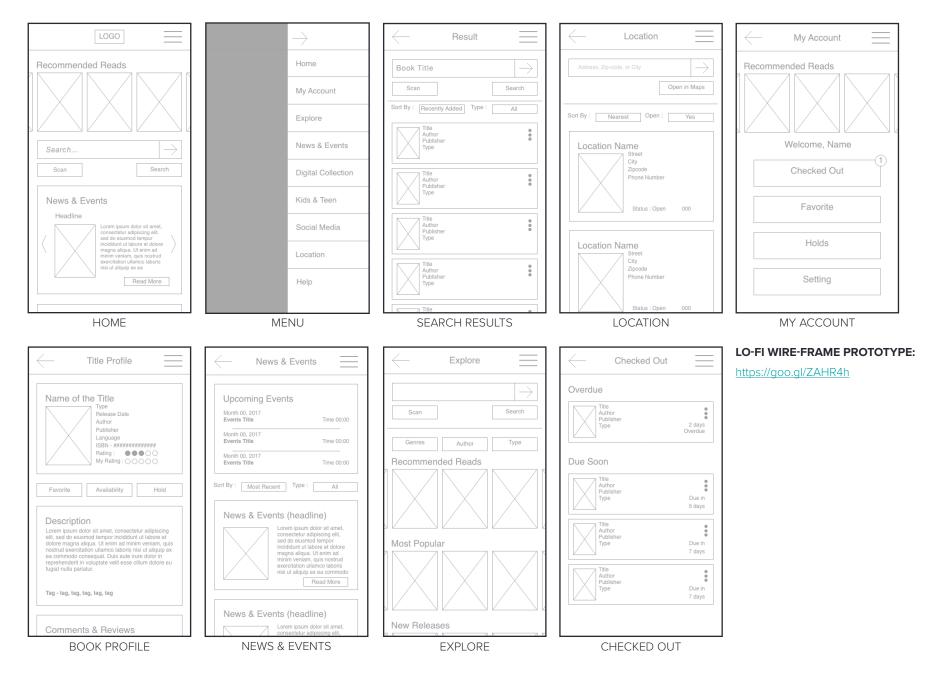


# PAPER PROTOTYPE

## TASK 2



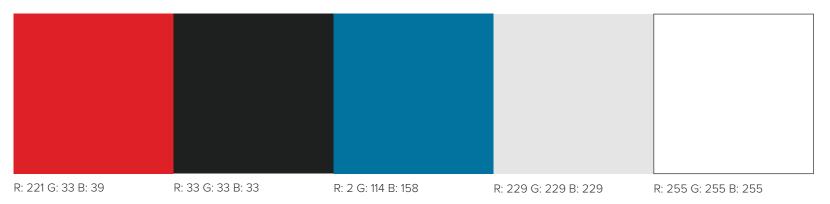
# **WIRE-FRAME PROTOTYPE**



KCLS MOBILE | 20

# **STYLE GUIDE**

## COLORS



## TYPOGRAPHY

## Proxima Nova Medium (Headline / Buttons) 20pt

## Proxima Nova Medium (Heading 1 H1) 20pt

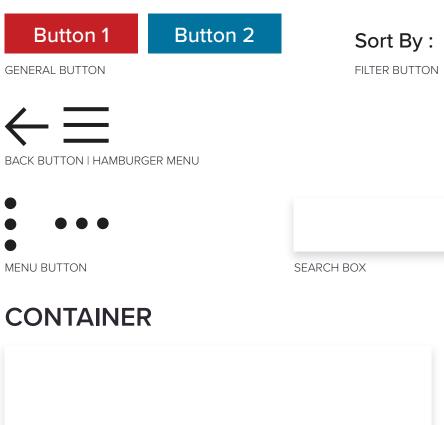
### Proxima Nova Medium (Heading 2 H2) 16pt

### Proxima Nova Medium (Heading 3 H3) 14pt

Proxima Nova Light (body Copy) 12pt 16Leading

## BUTTON

#### KCLS MOBILE | 22





Search

# **TESTING SCRIPT**

### WELCOME AND PURPOSE

Hello, My name is \_\_\_\_\_\_, Thank you for taking your time to participate in the testing of the new King County Library System mobile application. This mobile app is still in it prototype form and it still carry lots of flaws. I need your help in discovering those flaws in today testing session.

The King County Library System mobile application is meant to be a companion mobile app to your library experience. The KCLS mobile app will assists you in locating nearby library branch, keep track of your checked-out books, find information on books and its availability, and discover online contents such as ebook, audio-book, and videos.

This testing session isn't meant to test you as a user but in fact to test the functionality of the app. If you feel like something isn't right, don't worry, it isn't you, it's the app. For this testing session, you will be given three tasks to complete. Please complete the tasks at your own pace and as you perform the tasks, it would be a great help if you could talk us through your thoughts process while performing the tasks. Again, thank you for your time. Your results will be a great help for us when we finalize this apps for the mass.

### TASK ONE

Your first task is, using the king County Library System app to locate a nearby King County Public Branch and View the location on the map.

You have completed task one, were there any difficulties, concerns, questions, comments, or suggestions you may have while performing that task.

### TASK TWO

Your second task is using the app, figure out which books you have checked out that is currently overdue.

You have completed task two, were there any difficulties, concerns, questions, comments, or suggestions you may have while performing that task.

### TASK THREE

Your third and final task is using the app, find out the upcoming events for kids.

You have completed task one, were there any difficulties, concerns, questions, comments, or suggestions you may have while performing that task.

### CONCLUSION

You have completed the test session of the King County Mobile App. Again, thank you for your time, your result will be a great help for us to improve on the app for the final version of it. Do you have any final comments and suggestion you want leave with us? Thank you for your time than, and hope you have a nice day.

# **USABILITY TESTING**

### **STUDY GOALS**

- User friendly testing
- Ensure that people can access their desired page easily
- Mapping user paths
- Ensure users are familiar with the user interface of the app

### PARTICIPANT SCREENING CRITERIA

- Students (15 25 years)
- Parents (25 50 years)
- Teachers (25 50 years)
- Have access to using smart phones
- Familiar with the idea of using a mobile app
- Often visit a library/ borrow books
- Read books frequently
- Does research frequently

#### TASKS:

- Located a nearby King County Public Library Branch and view the location on the map.
- Figure out which book are currently being overdue.
- Find upcoming events for kids

# **TEST RESULT**

#### USER 1

(observation) Couldn't find the map button on task 1 (comment) Soo many click (suggestion) Alert feature (comment) Don't separate events from kids (comment) Make it simple, less tap (suggestion) Combine Events and kids & Teen events USER 2

(comment) Library location look like a book profile (suggestion) Move "location" to top 3 on the menu underneath "explore" (suggestion) Universal search box, search location (comment) Events text look too small, didn't know it was click-able USER 3

(comment) Make sense overall (comment) Strange to have two separate event page (suggestion) Ability to favorite an event (comment) Overall nice

#### USER 4

(comment) Text too small on checked-out page (suggestion) Change green to orange for checked-out page, green feel too safe. (observation) Last task seems confusing to tester (comment) Two event page is confusing, text too small (comment) Button too small (comment) Overall look clean and well organized (comment) No kids event indication at event page.

#### USER 5

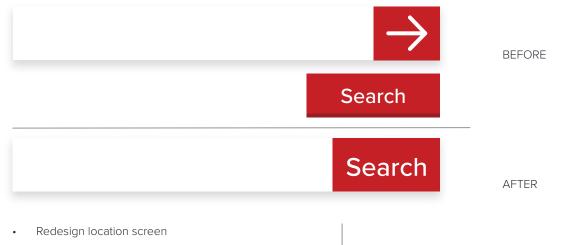
(comment) Like the small (1) for notification (comment) Seem clear and look clean (comment) Green is too neon bright (comment) Look simple, everything is easy and fast (suggestion) Hamburger menu tab, overlay (comment) Text too small (suggestion) Symbol for overdue book USER 6 (observation) She thought the search box on the home page could locate library (comment) Seems straight forward (comment) Second task is very clear since its on the homepage

#### COMMON PROBLEMS, COMMENTS, AND SUGGESTIONS

Separate events pages for kids/teen and main events confuses user Text are too small on certain pages, inconsistency Green color is too neon bright Button are too small on certain page Universal search box

# **CHANGES**

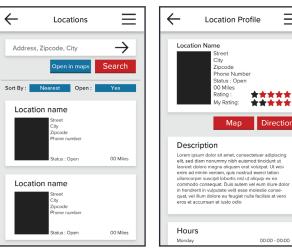
- Unify text size •
- Unify button size
- Unify overall Elements, established a more strict design guide
- Remove green color
- Combine 2 events pages into one
- New Search box •

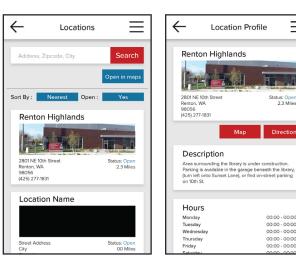


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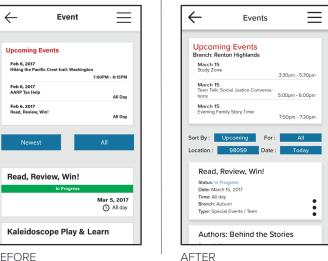
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Location Profile



Redesign events screen •



BEFORE

Redesign menu icon ٠



AFTER

Redesign title layout •



BEFORE



Change main typeface from Helvetica to Proxima Nova •

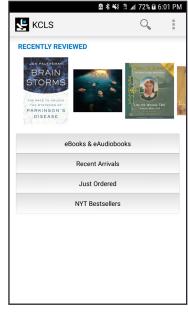
#### KCLS MOBILE | 27

# **HI-FI PROTOTYPE**

King County Library System	×	← Result 📃	└ ← Locations	My Account
Recommended Reads	Home	Book Title Search	Address, Zipcode, City Search	Recommended Reads
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Happy 75th Birthday KCLS Happy 75th Birthday KCLS! Throughout 2017, we will be	Digital Collection	Author: James Vanderbilt Publisher: Sony Pictures Home Entertainment Type: DVD	Location Name	Favorites
Celebrating KCLS' 75th birthday and we invite you to io us. Read Director Gary Wasdin's blog for more	Kids & Teen			Reserved
details: http://l.kcls.org/2ldAzPb Read More	Social Media	Parable of the Sower	Street Address Status: Open City O0 Miles	Setting
	Help	Author: Octavia E. Butler OCTAVIA E. BUTLER BUTLER Publisher: Gran Central Publishing; Updated edition (January 1, 2000)	Zipcode ### ### ####	Setting
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eBook Profile A Piece of the World A Novel 2017 Sline, Christina Baker English	Events Upcoming Events Branch: Renton Highlands March 15 Store 3:30pm - 5:30pm March 15 Teen Talk: Social Justice Conversa- 5:00pm - 6:00pm March 15 Evening Family Story Time	Explore Author Search Sort By: Alphabetical Nationality: Al	Checked Out Current Sunday, March 5, 2017 Coverdue Essential Mobile Interaction Design: Perfecting Interface Design Author: Cameron Bang and Josh Publisher Addison-Wesley PRofes-	Explore Search
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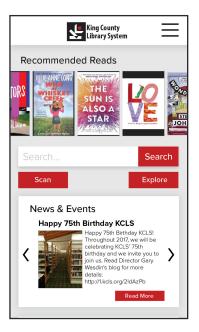
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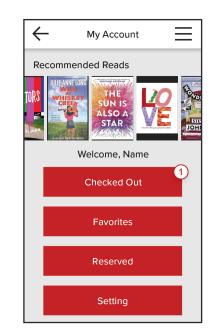


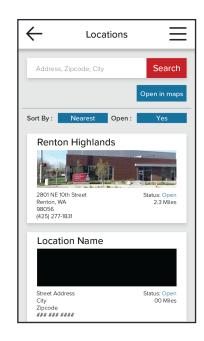
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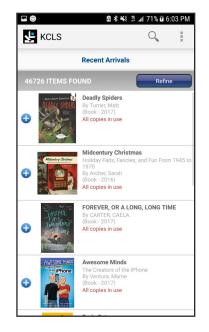


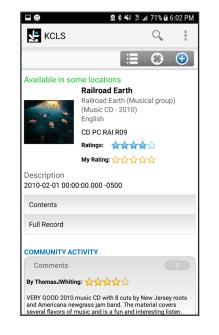


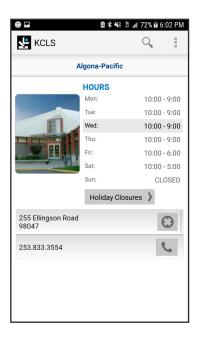


# **FINAL PRODUCT**

## CURRENT

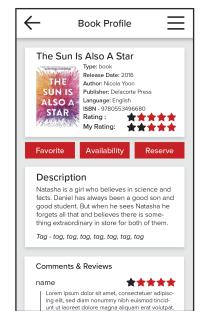


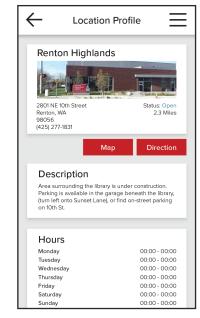




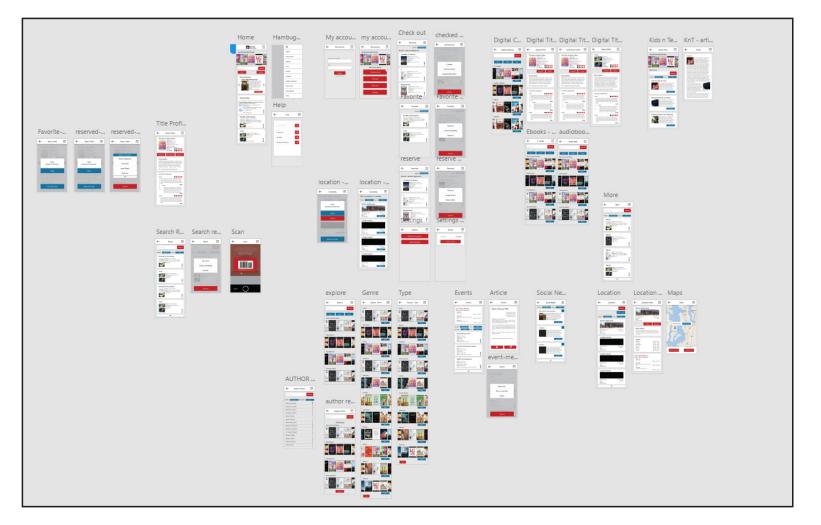
## REDESIGN







# PROTOTYPE



**HI-FI PROTOTYPE:** 

## FULL PROJECT DETAILS

TheTruDesign.com/KCLS/KCLS-mobile-app.html

https://goo.gl/j86dxt