# RotE

Celeste Cayetano Ethan Cui

Bill Phung Augustina Liu



#### PROBLEM

Seniors

- tend to have less secure online habits
- are targeted by many online scams
- have difficulty adapting to new technologies



#### SOLUTION

Seniors

- learn by **pattern matching**
- value **simplicity**

notE is a **simple**, **non-invasive** online account **information management notebook** 

# Initial Paper Prototype

Cover Index Page Account Page Notification Page Light Notifications Linked Pen

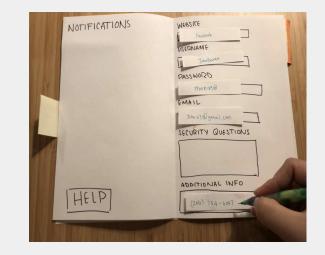
not E	Personal Info NAME PHONE NUMBER EMAIL ADDRESS	FACEBOR	
ΝοτιγιζάτιοΝς	WEESITE USERNAME PASSWORD EMAIL SECURITY QUESTIONS	Password Lest Updated 12/7/177 Want to Update?	Sub Grillgonnil.com Factorie Jubr Baken Subra Baken Subra Baken Kartin Subra Bake Ne Artsh Sauke MA
HELP Way to gas? You're so secure ?	ADDITIONAL INFO New device detected Pinne at fus location Is this you? Yes No		(200) 784-6087 JAN Baser Marshall Means Will Contact you onthey for Support.











Use facial recognition to securely unlock

Use index page to locate next available page

Use available page to record account information







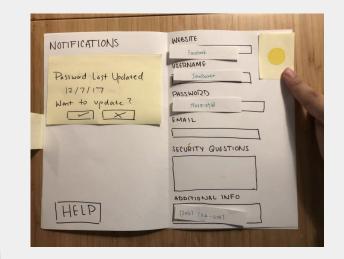
Confirmation of entry with a green light

Index page automatically updates for quick search









Yellow light indicates minor account issue

Yellow light shows on the index page

Prompt to update password

## Task 2: Giving Guidance After an Account Has Been Compromised









Red light indicates severe account issue

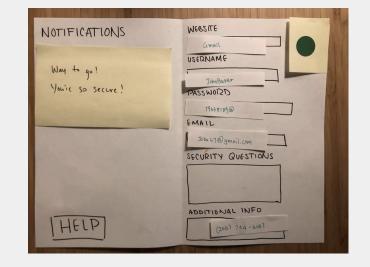
Red light shows on the index page

Red light shows on page and notification provides more information

### Task 2: Giving Guidance After an Account Has Been Compromised

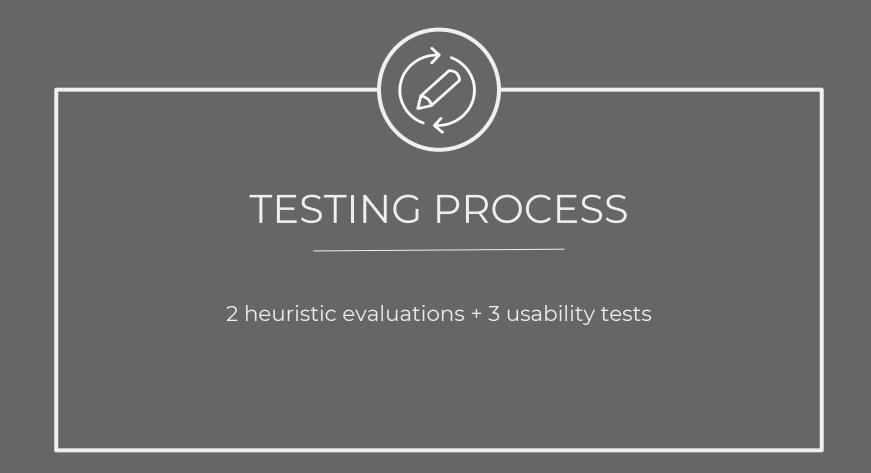






Message shows that there will be someone to contact them later.

Greenlight shows on page indicating no further security issues.





# HEURISTIC EVALUATION

Identifying as many major usability issues as possible before conducting usability tests

### Testing Process: Heuristic Evaluation



#### Participants

- Students currently taking CSE 440
- Conducted inside and outside of class

#### Method

- Brief introduction of our design
- Give them scenarios and observed
- Focused on violations of Nielsen's heuristics for interface design

#### Issues

 Lack of help + documentation



# USABILITY TESTING

Testing the simplicity and intuitiveness of our design among our target audience

# Testing Process: Usability Testing



#### **Participants**

- Seniors found in the library
- Familiar with technology

#### Method

- Brief introduction of our design
- Give them scenarios and observe
- Focused on points of frustration and intuitiveness

#### Issues

- Initially gave insufficient explanation of design
- Over-corrected and gave too much

# Testing Results: Main Takeaways



#### Heuristic Evaluation

- Help and documentation
- Consistency

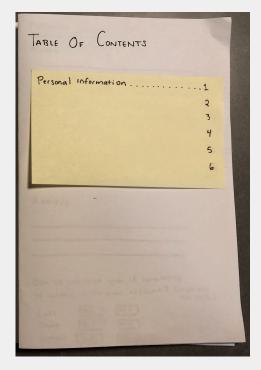
#### **Usability Testing**

- Level of documentation and instruction
- Need more resemblance to a notebook
- Intuitiveness



### Major Changes: Change Index to traditional table of contents





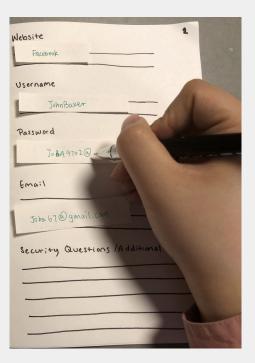
Before





#### Major Changes: Change input boxes to regular lines



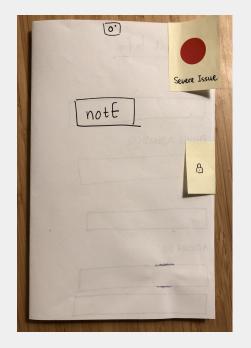


Before

After



#### Major Changes: Add screen on the front cover



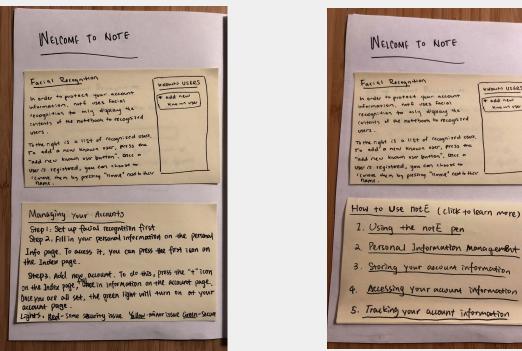


Before

After



#### Major Changes: Change help section to high level topics



After

KNOWN USERS

Known user

+ add new

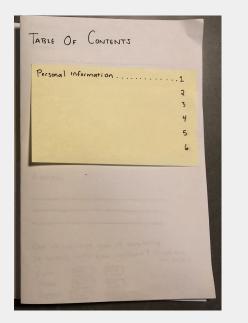
# Final Paper Prototype

Cover Index Page Account Page Notification Page Light Notifications Linked Pen

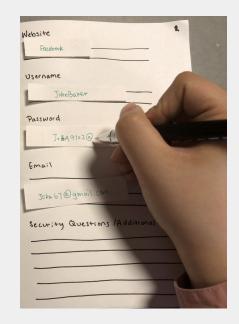




Use facial recognition to secure and unlock

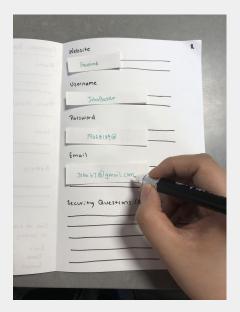


Use index page to locate next available page



Use available page to record account information





	1	
Your account information	Facebook	
has been saved successfully.	Username	Secur
0	JohnBaker	_
	Password	_
	79638189@	
	Ema:1	
2LankhA	Joba 67 @gmail.com	_
	Security Questions /Addition	nal Note
Tand I tan		



Offer password suggestions

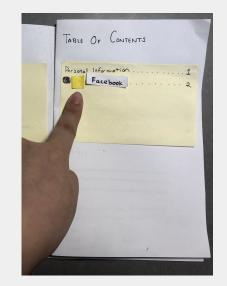
Confirmation of entry with a green light

Index page automatically updates for quick search

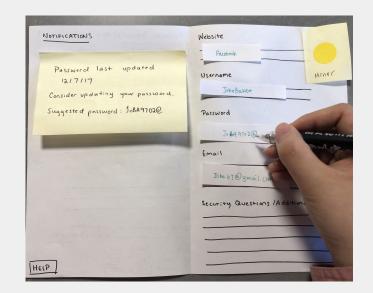




Yellow light indicates minor issue with an account



Yellow light shows affected account



Offer suggested password for the update

# Task 2: Giving Guidance After an Account Has Been Compromised

TABLE OF CONTENTS

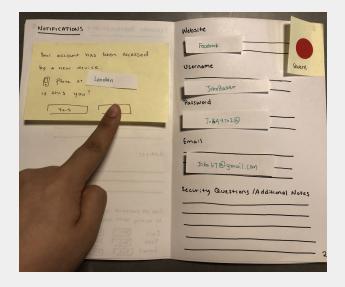
Facebook

Personal Information





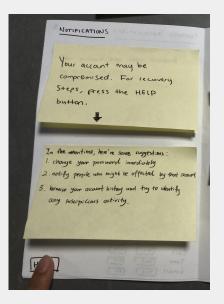
Red light indicates major account issues Red light shows on index page



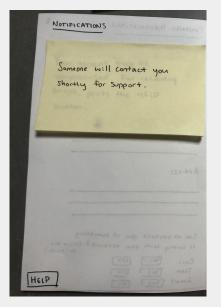
Red light shows on page. Notification provides more information

#### Task 2: Giving Guidance After an Account Has Been Compromised





Red light shows on page. Notification provides more information



Notebook will contact help and suggests other steps

### Digital Mockup: Overview





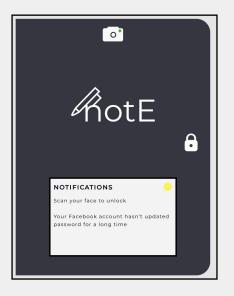
secure and unlock

Image: Constraint of the second s	<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><text><text><text></text></text></text></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>	NOTIFICATIONS	WEBSITE USERNAME PASSWORD EMAIL SECURITY QUESTION AND ADDITIONAL NOTES
Use facial recognition to	Use index page to locate next available page		ormation on the lable page



NOTIFICATIONS Suggested Password: 7983423@ HELP	WEBSITE         Faceback         USEFNAME	NOTIFICATIONS This account currently has no security issues. HELP	WEBSITE       Secure         Pacebook	TABLE OF CONTENTS         NotE will automatically update your table of contents as you fill in new pages.         Personal Information
Offer passwor	d suggestions		of entry with a n light	Index page automatically updates for quick search





Remind to change password

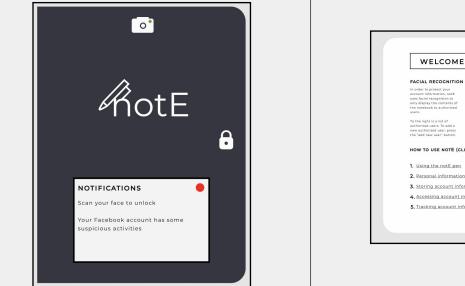
Personal Informa	tion	

NOTIFICATIONS	WEBSITE Minor I: Facebook
Password last updated at 12 / 17 / 17	USERNAME Johnbaker
Please consider updating your password	- Journanco
Password Suggestion: ASa!!\$Put	PASSWORD A Sall&Puz
	EMAIL
	-Johnbaker@gmail.com
	SECURITY QUESTION AND ADDITIONAL NOTES
HELD	
HELP	

Offer suggested password for the update

#### Task 2: Giving Guidance After an Account Has Been Compromised





Red light indicates severe account issues

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Red light shows on index page

#### Task 2: Giving Guidance After an Account Has Been Compromised



		NOTIFICATIONS	NOTIFICATIONS
NOTIFICATIONS Your account has been accessed by a new device	VEBSITE Facebook USERNAME Johnbaker	Your account may be compromised. To have a representative contact you to assist you with account recovery, press the "help" button below.	Thanks for confirming the issue. Someone from the company will contact you shortly.
Time of Incident : Today at 5:38 pm Location: Sydney, NS, AU Device Type: Samsung Galaxy Fold Is this you?	PASSWORD 1953423.00 EMAIL Johnbaker@gmail.com SECURITY QUESTION AND ADDITIONAL NOTES	Other suggested steps: 1. <b>Change</b> your password immediately 2. <b>Notify</b> people who may be contacted by that account 3. <b>Browse your account activity</b> and identify any other suspicious activity	
HELP	2	HELP	HELP

Red light shows on page. Notification provides more information Notebook will contact help and suggests other steps

Notebook will contact help and suggests other steps

# 

#### SUMMARY

For Process

- Iterative refinement and revision
- Focus on Participants' wants and needs
- Different testing processes and their purposes
- Simplicity is key

