

EMERGING TECHNOLOGY CENTER

DESIGN THINKING - Wanxing Dai

Emerging Technology Center | UIUC

FIVE SEMESTERS

Summer 2019 – Summer 2021

18+ PROJECTS:

Functional, Platform, Employee focused and Client focused

BUSINESS SECTIONS:

Enterprise Customer Engagement, Marketing, and IT

Competitive Intelligence Playbook User Research Framework Sam's Club persona creation Pay My Bill journey mapping, persona development **Habit Study**

Digital Adoption (QR code for top call drivers) Hispanic marketing insights Lifecycle journey map it Alerts best practices - Paypal Generational archetypes – Chevron Solution Prototyping – Cathay Pacific

CX Toolkit

Solution Prototyping – Verizon

IT Ticket Analysis

Hoteling App Testing Persona Identification - K-Mode Clustering





CX TOOLKIT

Problem | Solution

Problem:

How can Synchrony stakeholders uncover root cause needs of customers and create improved, relevant, and meaningful experiences.

Solution:

Develop a CX Toolkit for Synchrony stakeholders to learn how human centered design methodologies can be used to solve business objectives and apply design thinking tools to assess customer needs and create improved experiences.









Design Thinking

- Innovative problem-solving process that has a human-centered approach
 - Integrates the needs of people, possibilities of technology, and requirements for business success to transform products and services or internal organizational processes and strategies

(designthinking.ideo.com)

- Promotes divergent and convergent thinking
 - Identify problem and solution
 - See where user frustrations lie and make experiences more fulfilling to create value



Process

Research & Writing

Preliminary research + identifying best practices

Deliverables:

CX Toolkit Research Report of Best Findings/Practices

Organizing & Designing

Compare and contrast the resources

 Structure contents with Synchrony workflow

Deliverables:

CX Toolkit Draft

Designing & Building

Structure tools into a streamlined, intuitive interface

Deliverables:

CX Toolkit Prototype

Final Delivery

Finalize deliverables with additional business tools

Deliverables:

CX Toolkit Templates CX Toolkit Design & Implementation Plan



SharePoint



Design Tools:

- Validate Matrix
- Aspirations & Concerns
- Research Plan
- · Heuristic Review

Business Tools:

- Business Case
- Charter
- Prioritization
- AO Request
- VOC Request

- Build a SharePoint website for internal users to access the resources
- Create templates and instructions for each design tools
- Add business tools and research tools for internal stakeholders to access and use with ease





VERIZON INTERSTITIAL PROTOTYPING

Verizon Interstitial Prototyping

OBJECTIVE

Create a more user-friendly and effective card activation section on website

PROCESS

Review existing activation section, hypothesize on user experience issues, ideate on potential solutions, and create concept prototypes

CUSTOMER BENEFIT

Collective prototypes provide clearer information, simplified direction, guided steps, and engaged interaction

BUSINESS VALUE

Increased customer activation, registration, paperless billing, and mobile wallet



Current Interstitial Concept

Customize your Verizon Visa® Card

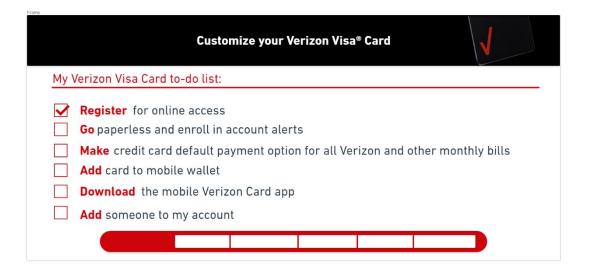


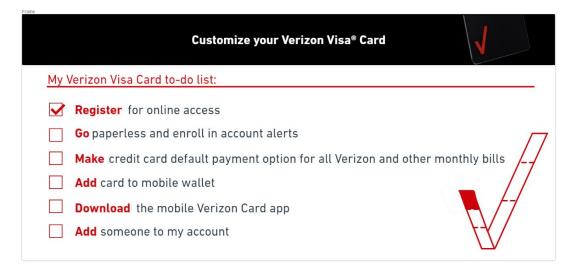
- Register for online access
- Go paperless and enroll in account alerts
- Make credit card default payment option for all Verizon and other monthly bills
- Add card to mobile wallet
- Download the mobile Verizon Card app
- Add someone to my account

- Single static image
- Not clickable
- Not interactive



Gamified Interstitial Concepts





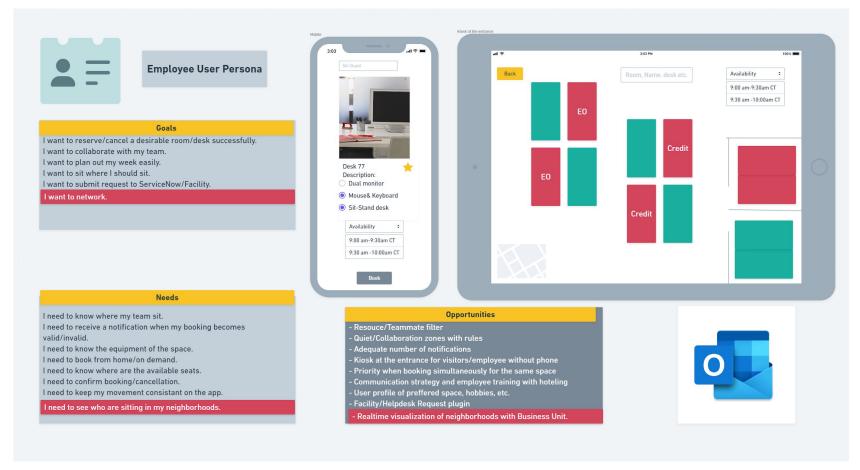
- Hyperlinked bolded action items
- Check mark boxes
- Auto updated progress bar





HOTELING APP TESTING

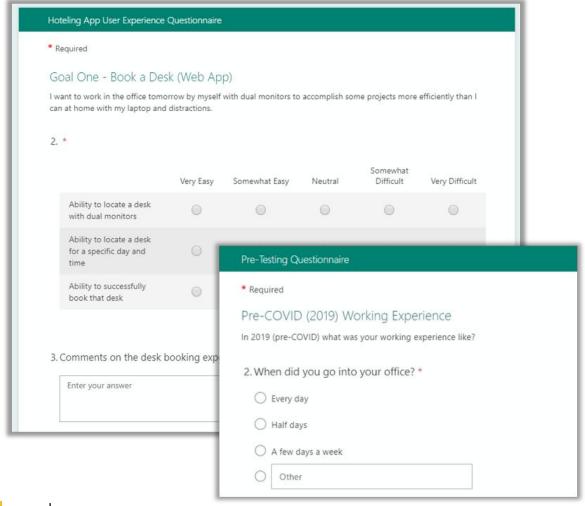
User Persona



- Conduct 7 internal stakeholder interviews
- Gather role-based user goals, needs, and wanted features
- Create prototypes for web and mobile app



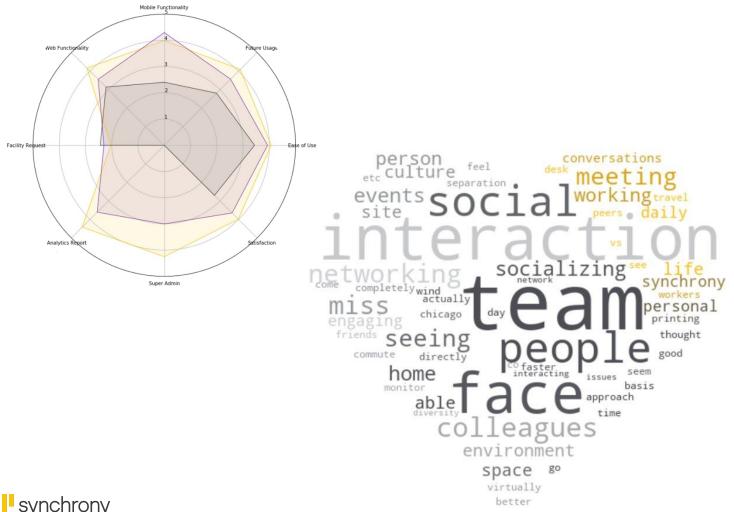
UX Questionnaire



- Pre-Testing Questionnaire to understand office habit
- Assign 5 tasks (user scenarios) for testing in Web and Mobile App.
- In POC phase, design UX Questionnaire to gather user feedback.



Survey Analysis



In Python:

- Uncover user pain points by running word clouds
- Analyze quantitative user feedback to determine go/no-go decisions

Gather UX designers' feedback on the interface of PoCs and make suggestions.





CHANGING WHAT'S POSSIBLE