What are the top authentication problems?

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What are the top 3 issues with user authentication in an app?

I'm going to take this approach for finding the biggest problems to write the product requirements document (PRD).

5 step process:

- 1. Research problem areas
- 2. User Profiles
- 3. Product Principles
- 4. Prototype and Test Product Concept
- Feature Prioritization

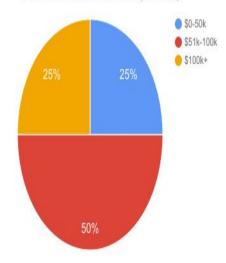
Research Problem Areas

Questions/details to assess problem areas using mutually exclusive collectively exhaustive (MECE):

Customer interviews?

- a. Interviewed 4 people on biggest travel concerns
- b. Separated by salary
 - i. 1 person in \$0-50,000 USD, a 53 year old janitor
 - ii. 2 in \$50,000-100,000 USD, a 34 year old saleswoman and 24 year old museum curator
 - iii. 1 in \$100,000+ USD year old, 26 year old design engineer

4 Customer Interviews by Salary



Product Purpose for Problem Areas

From research, we can create a product to fulfill biggest problem of concern from 4 customer interviews:

- 1. Trust in security (100% or 4 were concerned)
 - a. All 3 salaries ranges were worried that data can be corrupted or hacked since the authentication may not be strong enough
 - Other minor concerns were considered such as number of screens, detailed instructions, customer service help and phone compatibility for authentication were not as important factors

User Profiles for authentication



- 1. \$0-50k
 - Janitor wanted detailed onboarding yet easy to use interface
- 2. \$50-100k
 - Both saleswoman and curator wanted something simple but able to contact customer support quickly if needed for any concerns
- 3. \$100k+
 - Design engineer wanted simple also and have everything customer may need right in app as opposed to contacting customer service

Product Principles

Address concerns of customers through better technology & customer service

Some themes to follow relating to forming product ideas:

1. Transparency

a. Let customers know any issues and that their money is fine when there is a software issue internally

2. Easy to use

 Understand the balance to have the right number of screens to authenticate to gain a user's trust regardless of tech savviness

Prototype and Test Product Concept

Product Ideas

1. Digital mobile app solutions

- a. Bypass security questions when logged in their own device
- b. Email user when account is logged in from device not their own
- c. Push notify user when any account activity occurs
- d. Tradeoffs with mobile app
 - i. Pros On the go and convenient, can provide many features
 - ii. Cons Smartphone dependent, requires good design and development

2. More solutions

- a. Non-digital
 - i. Customer service representative providing any information via a printout, or phone call
- b. Digital
 - i. Web
 - i. Wearables

Feature Prioritization

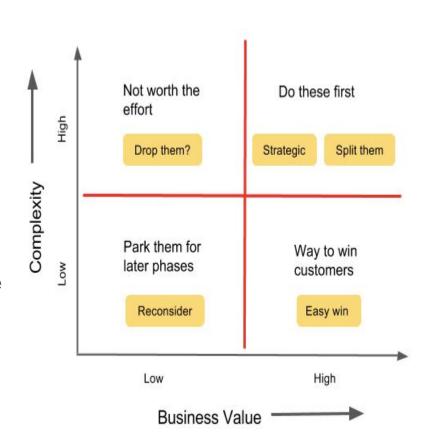
Follow approach of Value vs Complexity (Kano model) from customer interview and market research data for top features

Feature #1:

Bypass security questions when just using own device

Feature #2:

 Email user when account is logged in from another device not of their own



Backup: Design Thinking

1. Discovery

Choose an affirmative, strategic topic. Gather data. Understand & empathize with unmet needs.

2. (Re)Frame opportunity

Look for patterns & insights. Question assumptions. Frame your POV. Define your scope.

3. Incubate

Switch gears. Feed your brain with diverse stimuli. Meditate. Sleep on it.

8. Iterate & Scale

Evaluate, Learn, Create, Innovate,

7. Deliver

Final testing, approval and launch.

6. Rapid Prototype /test

Think big, act small, fail fast; learn from end-users and refine.

5. Evaluate/Refine ideas

What is desirable, feasible, viable about your ideas? What are the constraints?

Envision a desired future. Co-create in diverse team. Make your ideas visible.

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Plant

Grow

4. Ideate/

illuminate

Backup: Product Principles

Define principles to address purpose to fulfill 3 needs:

- 1. Transparency
- 2. Easy to use
- 3. Fair for customers

Backup: Design or improve product steps

Type 1: Designing a product

- Ask questions to understand the problem
- Provide a structure
- Identify the users and customers
- What are the use cases? Why are they using this product? What are their goals?
- How well is the current product doing for their use cases? Are there obvious weak spots?
- What features or changes would improve those weak spots?
- Wrap things up?

Type 2: Improving a product

- What is the goal of the product?
- What problems does the product face?
- How would you solve this problem?
- How would you implement these solutions?
- How would you validate your solution?