# DESGNTHNKNG Story design of Dr. Jennifer Palilonis November 29, 2017

### Story design & testing

## **5 Popular Design Thinking Strategies**

### **UNDERSTAND**

### **Empathy Research & User Personas**

Empathy research can take many forms; the two most common are observation and interview.

- Observe users in natural settings to better understand the way they behave, react and solve problems.
  - Take detailed notes about what you observe and try to interpret what it means.
  - Take photos (if appropriate) and collect artifacts that help you understand the user better.
- Conduct semi-structured interviews to better understand how users think and feel.
  - Transcribe users' responses to your questions.
  - Ask follow-up questions to clarify or reveal additional information.
- Based on your research, develop personas (fictional characters) that represent a type of user.
  - Give your persona a categorical name.
  - Provide demographic info that includes information relevant to your project.
  - Develop a scenario narrative that describes how a persona would benefit from your project.

#### **BLUE ROOTS PROJECT PERSONA**

**Category:** Proactive Issue Sympathizer

Fictional Name: Daniel Rowland Title/Responsibilities: Bike Shop Owner

#### **Demographics**

Male 24 years old Married From Washington, D.C. Lives in Dearborn, Michigan



Goals and Tasks: Focused on being well educated about issues affecting his local community. Educate others about issues affecting his local community

Environment: Avid News reader

#### **Ouote:**

"My focus is letting people know that we can change the future. I want to make this a better place for my kids and

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### DEFINE

### **Problem Statements & Mind Mapping**

Instead of starting with a problem, design thinking starts with an observation.

- Write a one- or two-sentence claim that outlines the problem your project intends to address.
  - Problem statements should be specific, focused and grounded in provable facts.
  - Avoid "world hunger" problems, focusing instead on a tight, solvable problem.
- Develop mind maps that identify key themes and connections between them.
  Unpack thoughts and experiences into tangible and visual information that inspires.

#### **BLUE ROOTS PROJECT PROBLEM STATEMENTS**

Young people didn't know about their water sources and they didn't care much about crisis because it doesn't affect them directly.

Circle of Blue provides valuable public information about environmental and water news; however, it can be difficult for people unfamiliar with those issues to synthesize such information.



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### IDEATE

### Divergence, Convergence & Saturate & Group

Ideation is about "going wide" on concepts and outcomes; it is "flaring" rather than "focusing."

- Encourage participants to go beyond obvious solutions to increase innovation potential.
  Recruit people from differing perspectives to harness collective perspectives and strengths.
- Diverge: Develop one or more prompts intended to focus idea generation.
  - Prompts can take the form of "How Might We" questions or other action-oriented statements.
  - Provide 3 to 5 minutes for participants to come up with as many ideas as possible.
  - Ask participants to write responses on sticky notes, using one sticky note for each idea.
- Converge: When time is up, engage in guided discussion.
  - Request participants share their ideas one at a time; encourage brief discussion about each idea
  - Place each post-it on board.
  - Cluster related post-its and give each cluster a thematic title.
  - -Engage in additional discussion about each cluster if necessary.

**BLUE ROOTS PROJECT SATURATE & GROUP PROMPTS** 

How might we enable our audience to share personal stories about the value of water?

How might we leverage the power of social media to engage a global audience?

How might we encourage participants to consider the ways in which people from other countries and cultures experience water?



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### PROTOTYPE

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### **Crazy Eights & Iterative Prototyping**

Use results from the ideate phase to generate insights and visualize potential solutions.

- Engage in "participatory prototyping" with members of the real audience.
  Sketch as many ideas as you can with no regard for cost, resources or other similar constraints.
- The prototyping process should be iterative.
  Test concepts with stakeholders and then improve the fidelity
- Consider low, medium and high-fidelity prototypes at various stages of the project.



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### VALIDATE

### **User Experience & Concept Testing**

Show concepts and low-fidelity prototypes to representative users to get feedback early.

- Consider A-B testing that asks users to compare two concepts/prototypes.
- Walk representative users through the experience, asking them for meaningful feedback along the way.
- Encourage users to be honest and provide robust, detailed critiques.
- Choose the ideas that "test well," improve the fidelity, and test again!

#### **BLUE ROOTS PROJECT VALIDATION**



Low-fidelity concepts and prototypes were tested with college students in our lab.

The team tested mid-fidelity concepts and prototypes at a "Greening of the Statehouse" event in Indianapolis.

