

## Human-Centered Learning: Leveraging Best Practices from Software Design

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## **Bottom Line Up Front**

We build learning management software at **Meridian Knowledge Solutions.** Our specific goal is to make it easy to administer complex training at scale while never losing focus on the learner.

We're here to tell you about how we design our software – used by millions of learners, instructional designers, administrators, and analysts because we believe our process could be helpful to you in instructional design.

## A Common Challenge

Whether software or learning, we design for people. People learn and people use software.

To maximize individual and scale for groups, we believe we must:

 Be open to new ways of understanding how best to reach our audience
Maintain a continual focus on improvement using quantitative & qualitative data

3. Organize and break down ideas efficiently

## What is **Design Thinking?**

"Designers don't try to search for a solution until they have determined the real problem, and even then, instead of solving that problem, they stop to consider a wide range of potential solutions. Only then will they finally converge upon their proposal.

This process is called **Design Thinking**."

Don Norman, The Design of Everyday Things

#### Enterprise Design Thinking: The Loop

This is a hexagon-free space.

#### **NO HEXAGONS!**



The Enterprise **Design Thinking** Loop

#### **OBSERVE**

Immerse yourself in the real world to get to know your users, uncover needs, learn the landscape, and test ideas.

#### REFLECT

Come together and form a point of view to find common ground, align the team, uncover insights, and plan ahead.

#### MAKE

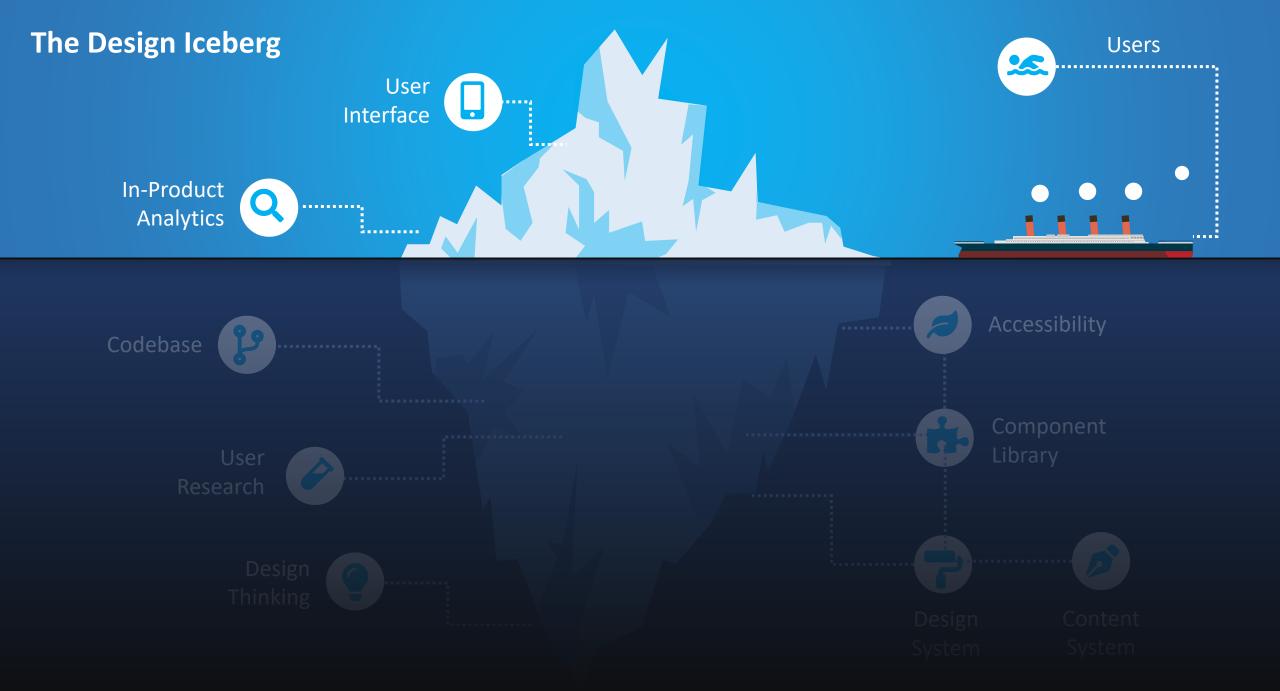
Give concrete form to abstract ideas to explore possibilities, communicate ideas, prototype concepts, and drive real outcomes.

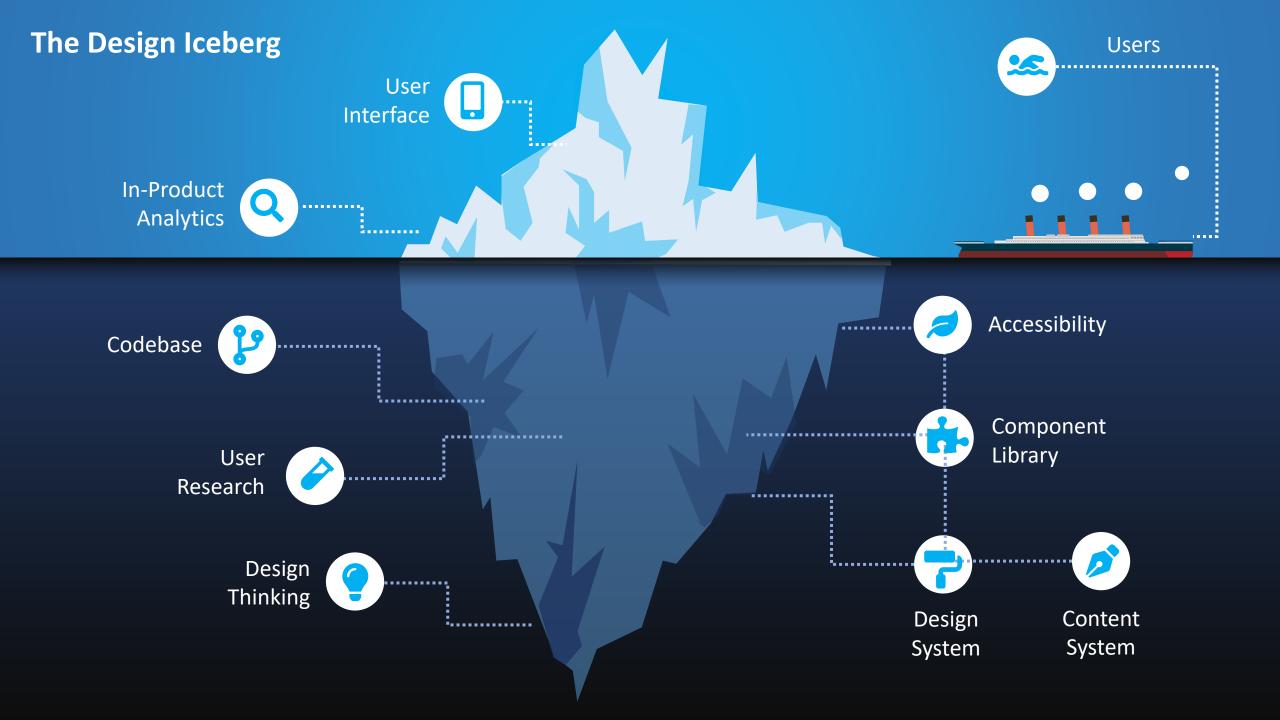
## How do we apply **Design Thinking**?

This user-centered approach known as 'design thinking' enables designers and others to address a wide range of complex business and social issues.

By establishing empathy with the user, designers are able to work toward outcomes that meet those needs more successfully.

IBM Design Thinking Field Guide





#### Enterprise Design Thinking: The Keys

Design Thinking is a methodology applied to the design of innovative products and services, whose main premise is focusing on the customer in order to detect their real needs, continual validation and iteration to offer exactly that solution which provides value



#### HILLS

You will sponsor a specific feature or "Hill" and see it all the way through from design to development!

#### PLAYBACKS

You'll receive Playbacks of our progress along the way. This is your opportunity to share your feedback!

#### **SPONSOR USERS**

As a sponsor user, you will shape the direction of our product. Your feedback is critical to our success! This is a hexagon-free space.

#### **NO HEXAGONS!**



What to expect in a Design Thinking Workshop

#### Enterprise Design Thinking: Sponsor Users

Sponsor Users are *real* people with *real* opinions. They're the *actual users* we build our product with!

Sponsor Users help surface many of the problems that we are trying to solve in a Hill.

Sponsor Users are *critical* in validating the solutions that we are envisioning, designing, and implementing.



#### **SPONSOR USERS**

As a sponsor user, you will shape the direction of our product. Your feedback is critical to our success!

EXPECTED OUTCOME: See a feature to completion from idea to design to implementation!



What to expect in a Design Thinking Workshop:

**1** Hour Sessions

2 Design Exercises per Session

**B** Hills (Goals)

#### HILLS WORKSHOP:

#### Create three (and only three) hills.

Hills are composed of a "Who" (a specific user or group of users), a "What" (a specific action or enablement), and a "Wow" (a measurable, market differentiator).

WHO: WHAT:

WOW:

A specific user or group of users

A specific action or enablement

Measurable market differentiator

It's often challenging for teams to focus on three (and only three) Hills because this might mean that very valid ideas are not being included. It's important to realize that additional Hills can be addressed in future releases.

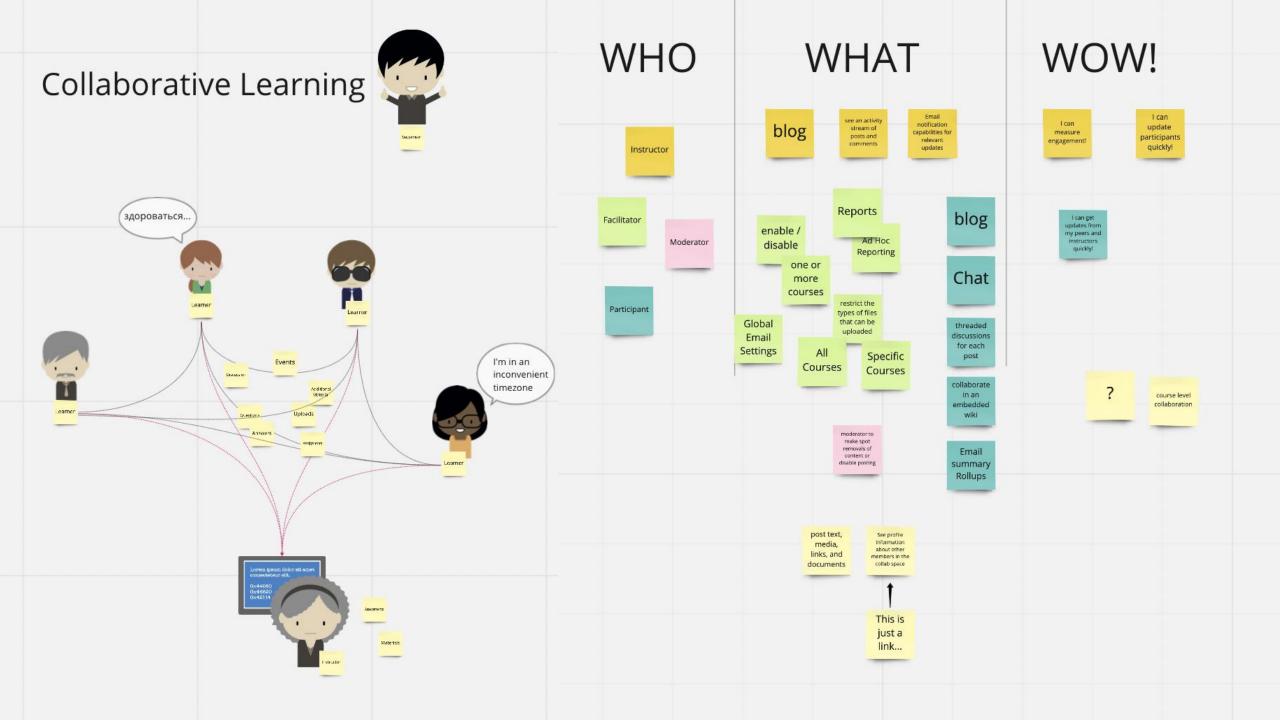


#### HILLS

As a sponsor user, you will sponsor a specific feature or "Hill" and see it all the way through from design to development!

#### EXPECTED OUTCOME:

 $\mathbf{3}$  Hills (Goals)



#### Example Hill: Instructor Hill

Instructors

**Instructors** can post **text**, **images**, **videos**, or **files** to update **participants** on the latest information.

WHO:

WHAT:

WOW:

Can post text, images, videos, or files

to update **participants** on the latest information!



#### HILLS

As a sponsor user, you will sponsor a specific feature or "Hill" and see it all the way through from design to development!

EXPECTED OUTCOME:

 $\mathbf{3}$  Hills (Goals)

#### Scenario Mapping (As-Is/To-Be)

**As-is Scenario Maps** help to document collective understanding of user workflows and are best used as precursors to exploring new ideas.

To-be Scenario Maps tell the story of a better experience for your user

### As-Is, To-Be Scenario Map

## Doing

## Thinking

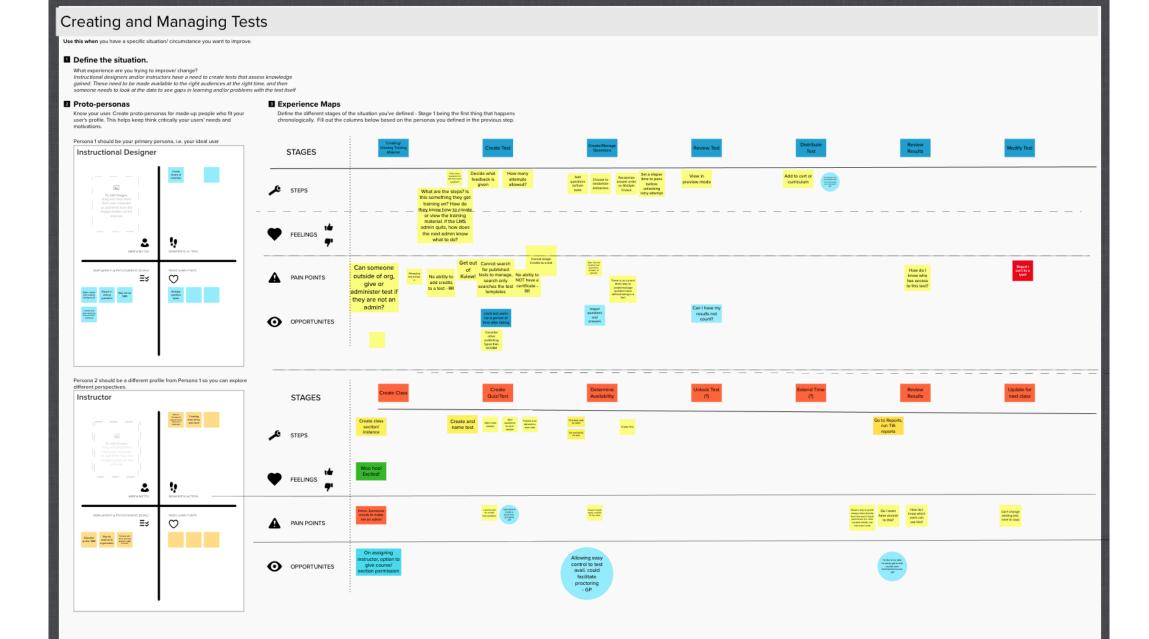
## Feeling



#### **Scenario Mapping**

The solutions presented in a To-be Scenario Map should ideally be correlated to the "pain points" identified in the As-is.

EXPECTED OUTCOME: AS-IS & TO-BE



#### Empathy Mapping

As-is Scenario Maps help to document collective understanding of user workflows and are best used as precursors to exploring new ideas.

## **Empathy Map**



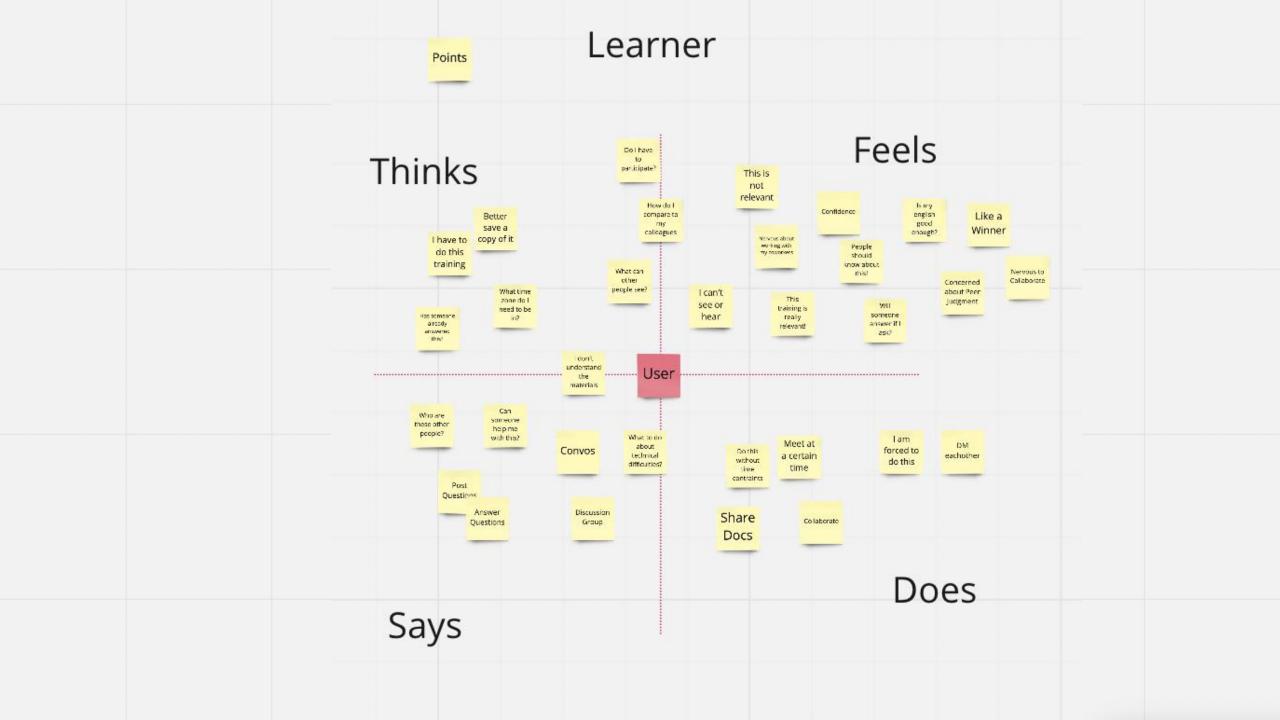


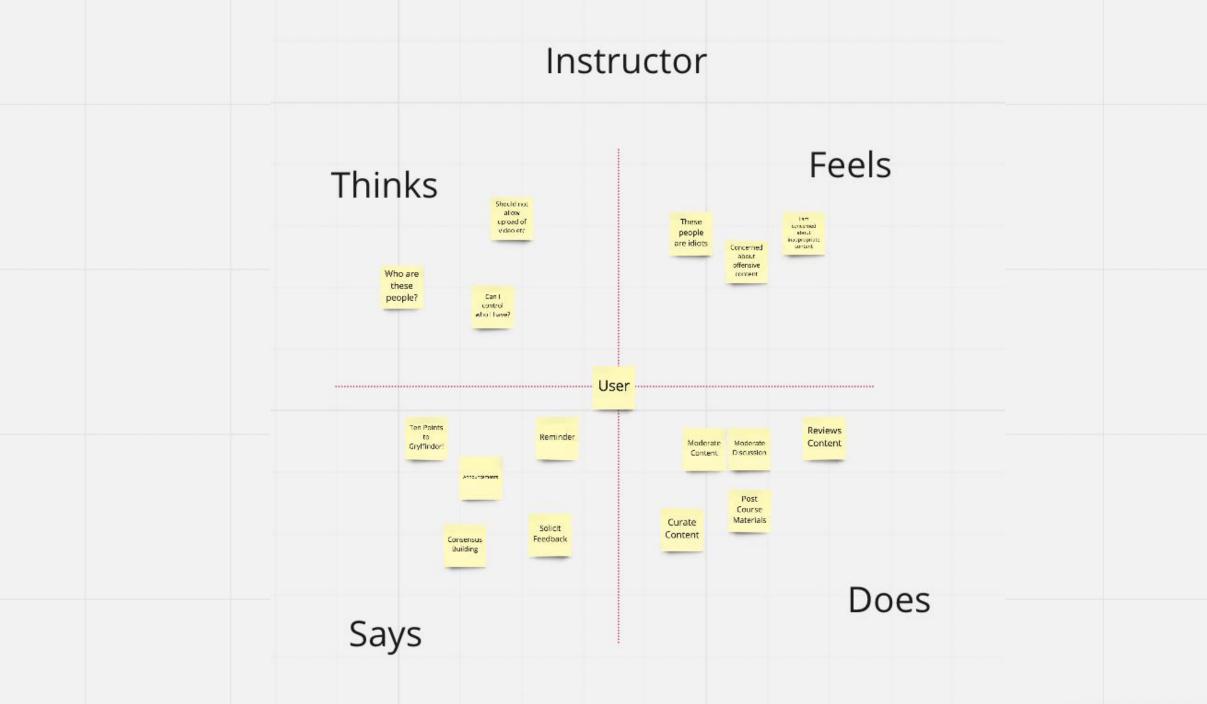
#### **Scenario Mapping**

The solutions presented in a To-be Scenario Map should ideally be correlated to the "pain points" identified in the As-is.

EXPECTED OUTCOME:

Empathy Map





#### Enterprise Design Thinking: Playbacks

#### Playback each phase of the design process.

A real, human story should be at the core of every Playback. Show how your tool or concept solves a problem in your user's real-world workflow. You'll receive Playbacks of our progress along the way. This is your opportunity to share your feedback!



**PLAYBACKS** 

EXPECTED OUTCOME:

You'll receive Playbacks of our progress along the way. This is your opportunity to share your feedback!

#### Enterprise Design Thinking: Heuristic Review

We've created a separate, client-facing Usability Survey, based on the Meridian Heuristic Evaluation. This survey link may be shared out to anyone

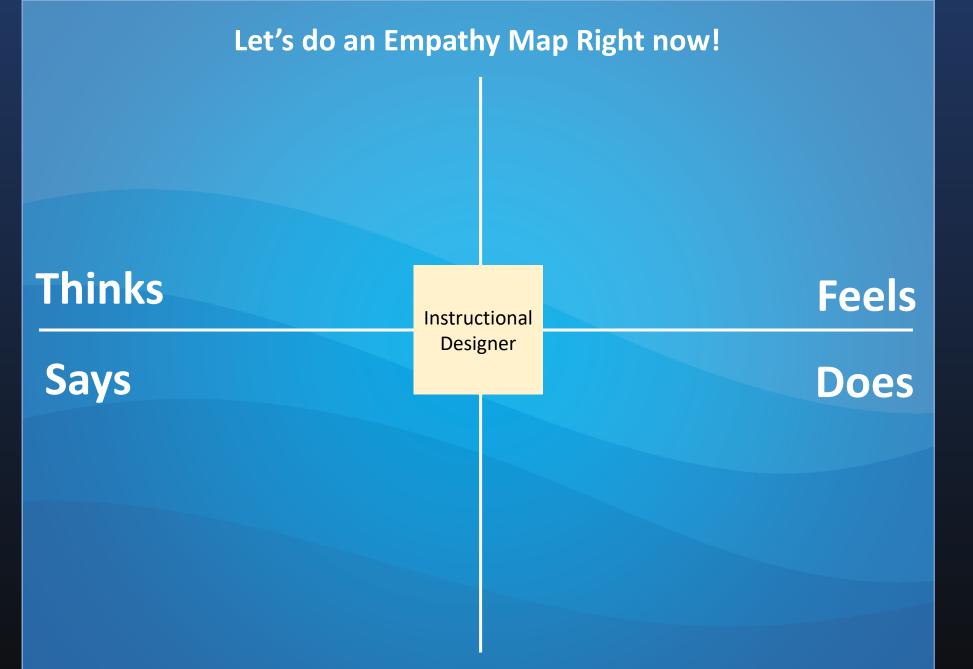
- 1. Visibility of System Status
- 2. Match Between System and the Real World
- 3. User Control and Freedom
- 4. Consistency and Standards
- 5. Error Prevention
- 6. Recognition Rather Than Recall
- 7. Flexibility and Efficiency of Use
- 8. Aesthetic and Minimalist Design
- 9. Recognize, Diagnose, and Recover From Errors
- 10. Help and Documentation



Heuristic Review

#### EXPECTED OUTCOME:

Include ALL users in your design process by offering them the ability to review your content using this template!



#### **Empathy Mapping**

The solutions presented in a To-be Scenario Map should ideally be correlated to the "pain points" identified in the As-is.

EXPECTED OUTCOME:

Empathy Map

## **Questions?**

# Download these Design Thinking resources to help you design!

# You may download all of the resources discussed in this session on Meridian's website!

https://www.meridianks.com/human-centered-learning-leveraging-best-practices-from-software-design/

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