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User Experience Process **▼**

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User Experience Process Overview

Creating a product or process to improve the Veterans Health Administration's (VHA) ability to serve our veterans requires more than expertise and hard work on the part of the product team.

Achieving usability in a design is only accomplished by following a user experience (UX) process that is based on traditional models of engineering and problem solving. To be effective, UX must be an integral part of product development.

The UX process is a basis for including human-centered research and design activities when creating or refining a system within an organization or a specific project. As an interactive product or clinical process is defined and developed, certain phases of the UX process should be carried out — sometimes several times in a project life cycle.

Phases are performed whenever certain results are needed, and the degree of rigor when performing each phase can vary based on risk, context, and overall requirements.

Some phases can be repeated, as the result of iterative refinement of the solution.

Design Thinking

Design thinking is a user-centered way of thinking, in which we seek to understand the user and define problems to create alternative solutions that might not be obvious at the beginning of a project.

Design thinking helps us:

• Observe and develop empathy with the target user

prototyping and getting feedback from end users.

user errors that could occur in the operational setting.

Evidence-based Design: Minimizing Risk and

Maximizing Value

• Reframe a problem in human-centered ways, creating many ideas

to inform the solution, as well as adopt a collaborative approach to

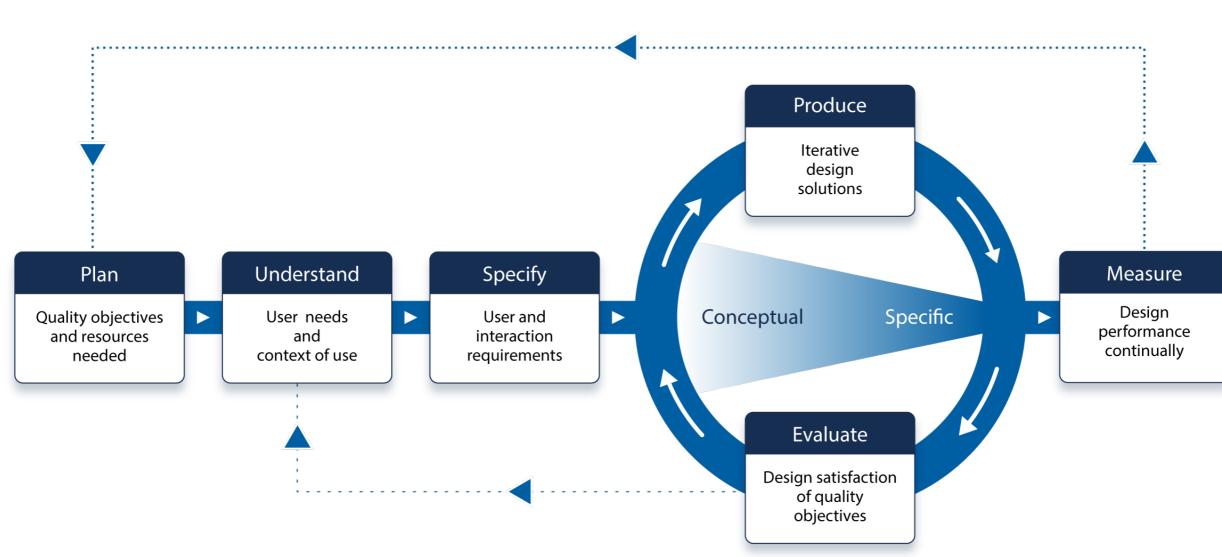
veterans while maximizing the value gained by applying a user-centered approach to designing solutions for the VHA's clinical scenarios. By focusing on the end user — the clinicians interacting with a product or following a

The products and processes used in the VHA should minimize the risk of harming

It is critical to define the value that should be created by executing a project, and the degree of achievement of that value should be repeatedly measured throughout the UX process.

process — we can lower the costs of rework due to incomplete solutions and minimize

UX Process Phases



In the Plan phase, quality **objectives for usability** are identified and communicated with

Plan

relevant project leaders responsible for the business requirements and technical implementation. • An interdisciplinary effort ensures all requirements and

- constraints are addressed through the UX process. The project approach is defined and activities and resources
- required are agreed upon. Value propositions are defined and potential risks are identified.

Learn more about the Understand phase >>

Learn more about the Plan phase >>

During the Understand phase, the **context of use** is identified. Understanding the characteristics of the user groups is key, including their tasks and goals. In addition, the

Specify

Understand

operational environment of the system, is described in sufficient detail to support the design activities. A variety of visual models can be used to improve communication across disciplines.

- Gain a detailed understanding of the project's business objectives, as well as the constraints imposed by all relevant technical platforms.
- It is often necessary to refine understanding through iterative rounds of user studies.

Building on the value proposition from the Plan phase and user goals defined in the Understand phase, the Specify phase is where **user requirements** are precisely stated. These include:

 Interaction requirements for users to achieve their intended results, including the necessary information presented and the ways a user enters information into the system.

specified through collaboration with various subject matter experts. <u>Learn more about the Specify phase >></u>

• Refined versions of the business and technical requirements are

Produce In the Produce phase, the user-system interaction is designed to address the high-level

requirements. This phase includes:

• Creation of an interface design solution that solves one or more user requirements that support tasks defined in the context of use description. Evolution of the design from insights in the abstract into

human-centered quality objectives, while conforming to the business and technical

down the solution options. Learn more about the Produce phase >>

potential solutions, while iterating on prototypes and narrowing

Learn more about the Measure phase >>

evaluated.

timeframes.

Evaluate

The evolving solution for user-system interaction is **tested by end users** during the Evaluate phase to determine if the design meets the user requirements and the initial value proposition.

• The team defines the relevant user profiles and tasks, as well as

the context of use, for the portion of the solution that is being

- The Evaluate phase is repeated on the evolving design solutions until the defined value proposition is achieved. User feedback is used to improve the solution throughout the
- of earlier phases in the UX process. Business and technical leaders should also provide feedback to

minimize the risk of failing to meet vital requirements and

development life cycle, particularly with respect to the results

Learn more about the Evaluate phase >>

Measure

When the solution meets the initial value propositions, the product is made available for use by the intended VHA audience. The Measure phase continues to **determine whether** the desired value is being achieved in the users' dynamic natural environments.

As context of use and other external factors change, the design is

continuously tested to determine if the value proposition is still being achieved and to inform future versions of the product.