

INNOVATION = CREATING USER-FRIENDLY INTERFACES TO DRIVE GROWTH AND SIMPLIFY PRODUCT DESIGNS

INNOVATION AT A GLANCE

Topic:

UID Ease of Use

Industry:

Medical, Industrial

Syncroness services:

- » Voice of Customer
- » Systems Engineering
- » Use Case Development
- » Graphical User Interfaces

Objectives:

- » Appropriately identify product workflow
- » Simplify interface for ease of use
- » Reduce time to market

Approach:

- » Identify end-user constraints
- » Illustrate use cases
- » Document early concept to final design in UID

RESULTS

- » Simplified user interfaces and workflows
- » Consistent understanding of requirements across stakeholders
- » Reduced time to market
- » Increased revenue growth



With many competing products in the market, those that rise as industry leaders have one thing in common - simple to use and intuitive user interfaces.

ATTRACTING NEW GROWTH AND INCREASING LOYALTY THROUGH USER-FRIENDLY DESIGN.

Product manufacturers in every industry appreciate the importance of having an intuitive, easy-to-use user interface, HMI and/or GUI. Interfaces that are user-friendly are simple to grasp for new users and more efficient for legacy users making the end product preferable over the competition. When you pair this with the recent technological evolution and dropping cost of tablets, panel PCs and other device hardware, it is simpler than ever to develop attractive products that get the job done.

Following a few simple steps prior to writing code, you can ensure that the end product meets customer needs, manufacturing requirements and promotes your products as cutting edge.

- 1. Voice of Customer** - It is crucial to understand the end user in order to define user constraints (education, reach, height, etc) as well as preferences (IT requires Windows). This VOC is also carried over into an analysis of the competition and market expectations (do we need an iPad?).
- 2. Develop Use Cases** - Once constraints have been identified, developers must

take the time to develop Use Cases – the exact manner in which the product is used. This process will bring out additional requirements not already identified in VOC and marketing specifications. These use cases can be illustrated in Functional Flow Block Diagrams (FFBD) to visually tell a story about all the ways the device is likely to be used (or misused). It is the use cases that will be leveraged by the software developer who will use them as the basis for a software requirement specification.

- 3. User Interface Document** - After initial solutions have been presented and vetted, the final solution set will be documented, in detail, in a User Interface Document (UID). This document ensures the development team has consistent understanding of what the UI will look like, how it will function and the workflows within. This document is particularly useful for validating the design with the customer and eliminates the risk of future misunderstandings of scope and feature set.

Utilizing this approach, we have successfully designed and implemented several user interfaces to the delight of our customers. We highly recommend it for your design needs.

LET'S KEEP INNOVATING.