

#### **OVERVIEW**

Our client, a leading manufacturing company, operates a vast array of machines in their production facilities. They recognized the potential of voice technology to streamline their operations and improve worker safety. They engaged our UX design team to develop a voiceenabled interface that would allow their machine operators to control and monitor equipment using natural language commands.

#### **OBJECTIVE**

Primary objective was to design a voice assistant that would enable machine operators to interact with complex industrial equipment effortlessly. The voice interface had to be intuitive, reliable, and adaptable to the noisy and challenging industrial environment.

### **KEY CHALLENGES**

- The Legacy application is designed on Window(Win2000) based design pattern.
- Machine operators often needed to issue complex commands involving precise machine settings. The voice assistant had to understand and execute these commands accurately. • It was pretty hard for the operators to create new commands as the flows were not
- defined well.
- Application is not user-centric and lacking intuitiveness, progression and simplicity.

### **CLIENT**

Evoke Technologies, USA

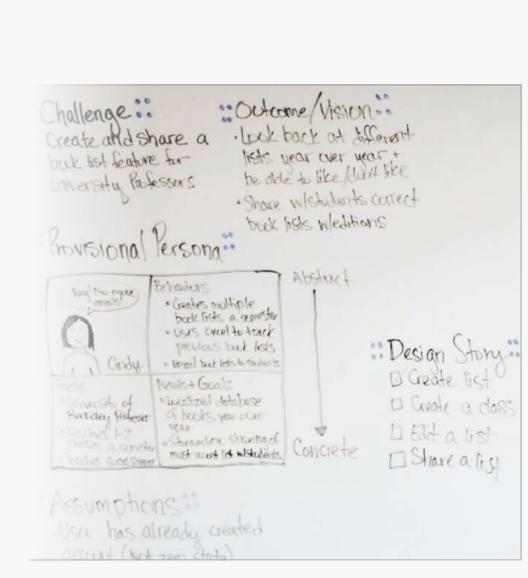
### ROLE & DURATION

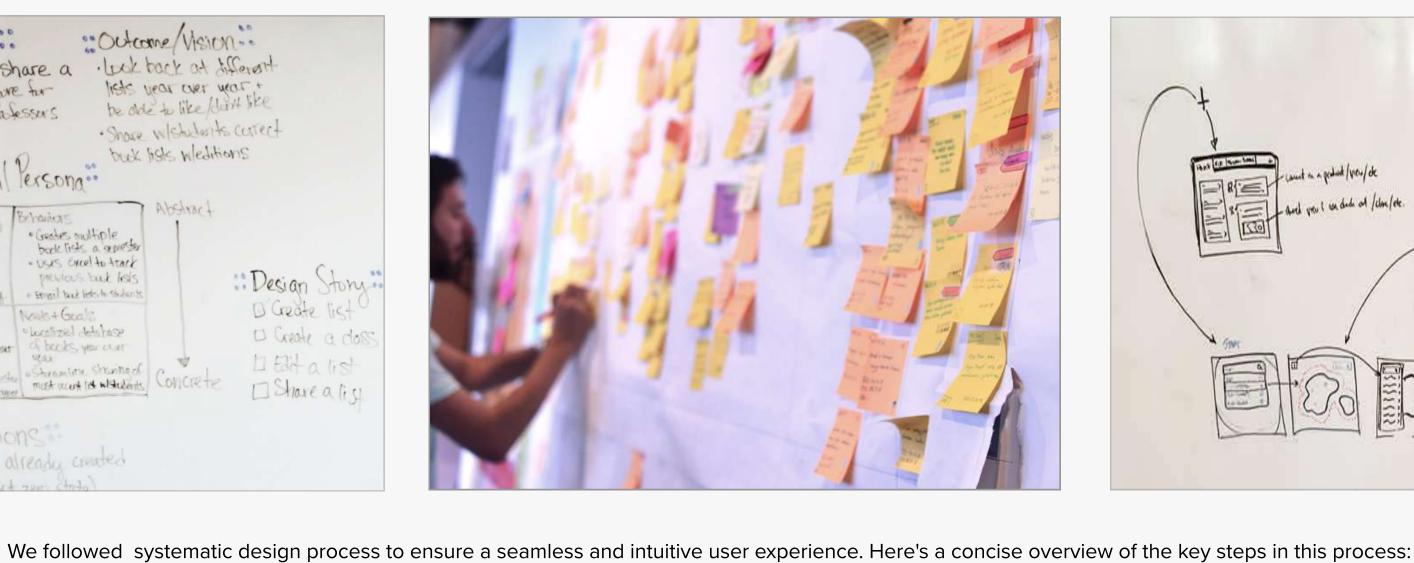
### Lead UX Designer

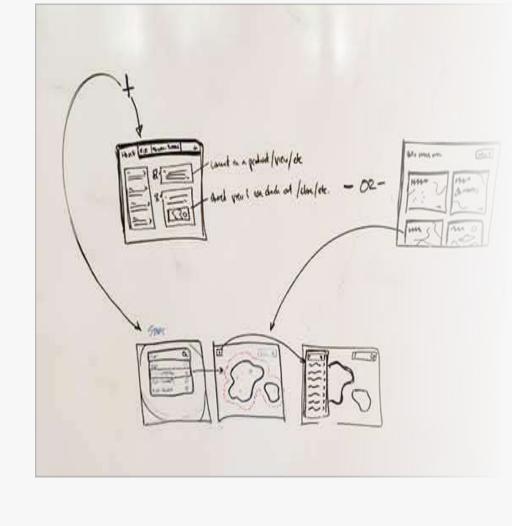
Sep 2020

User Research, Interaction, Visual design

# Empathise & Define







**User Research:** 

### Understand the target audience, their needs, and the context in which they'll use the voice assistant. Gather insights through surveys, interviews, and usability

testing.

**Define Goals and Use Cases:** Clearly define the objectives of the voice assistant UI and identify the specific tasks it should help users accomplish. Prioritize use cases based on user needs.

### Organize the content and commands logically to create a structured and intuitive conversation flow. Create a hierarchy of commands and responses.

**Information Architecture:** 

Create interactive prototypes or wireframes to visualize the conversation flow and user interface. This helps in refining the voice interactions. **User Testing:** 

**Prototyping:** 

Conduct usability testing with real users to evaluate the voice assistant's effectiveness and gather feedback for improvements. Visual Design:

If applicable, design a complementary visual interface for the voice assistant, such as a screen for displaying additional information or feedback.

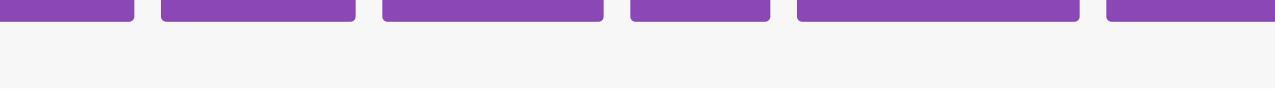
Ask

X File Edit Command Advanced Settings Help

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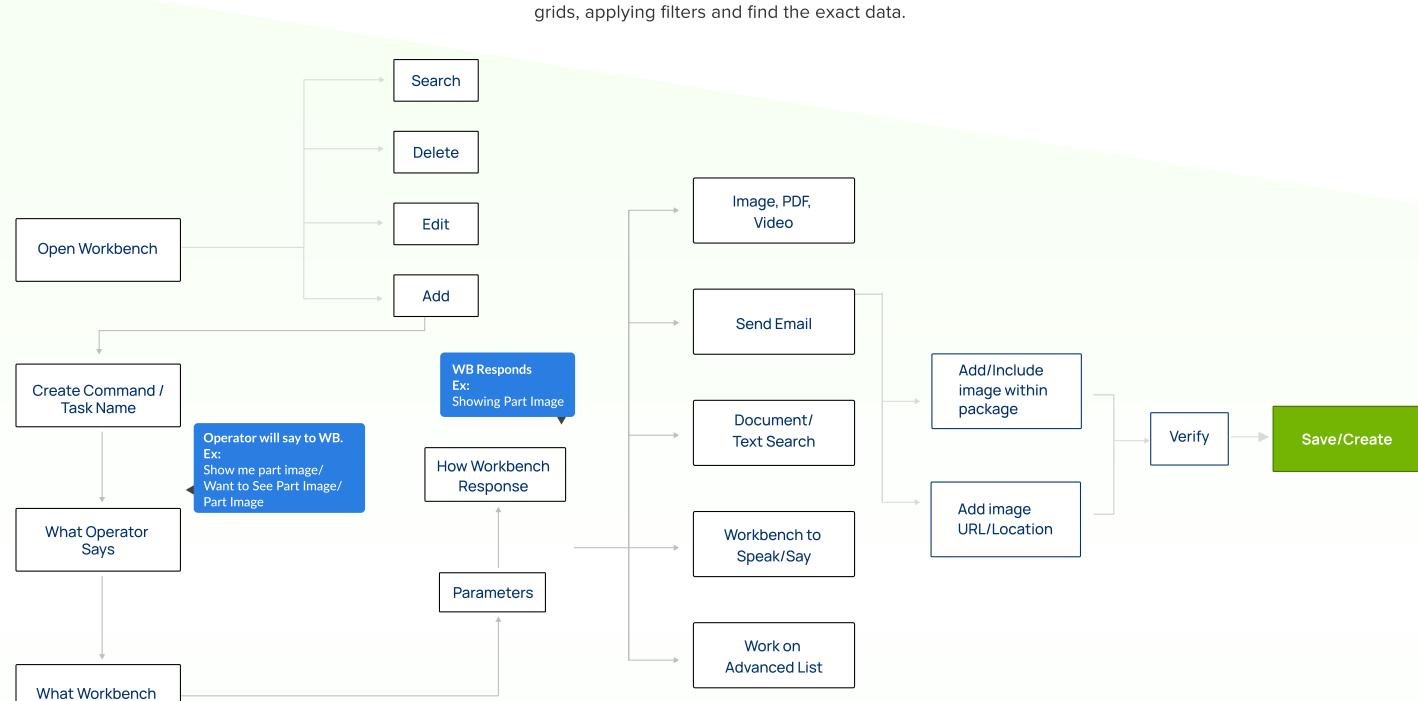
**MEDIA DOCUMENT ADVANCE LIST EMAIL MACHINE OPERATOR COMMAND** 

**INSIGHTS** 



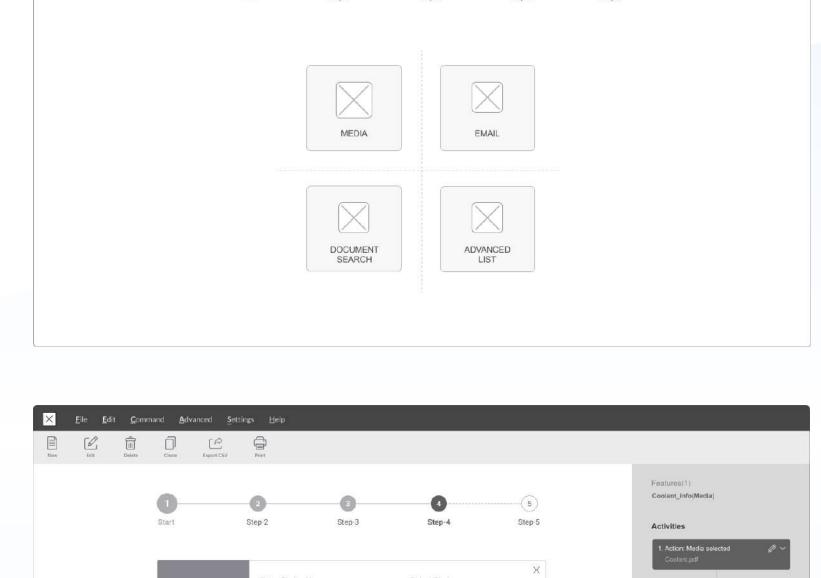
## Based on the insights discovered during the brainstorming session, designed and presented different approaches of viewing and navigating the data

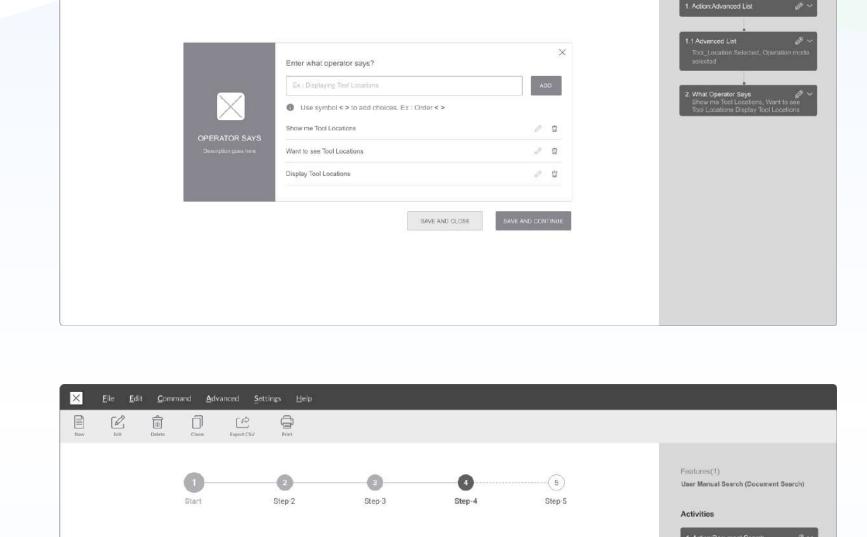
Ideate, Prototype & Iterate

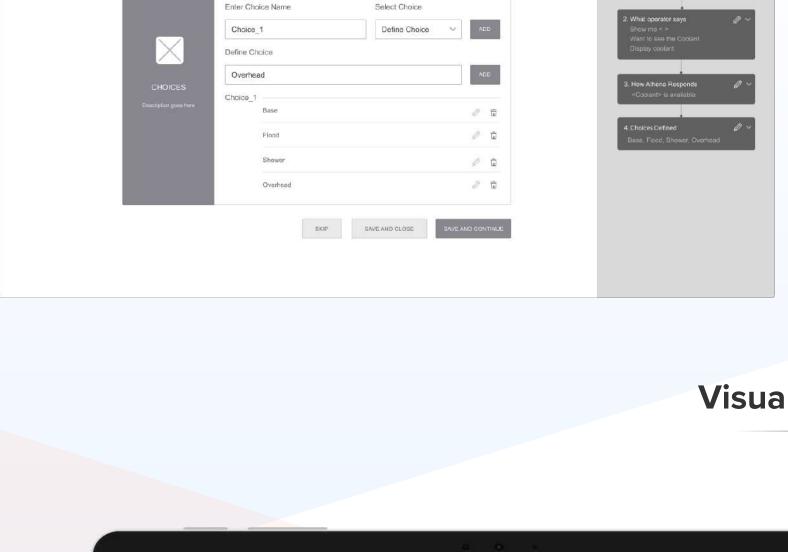


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**Wireframes** 







What Operator Says Athena's Response

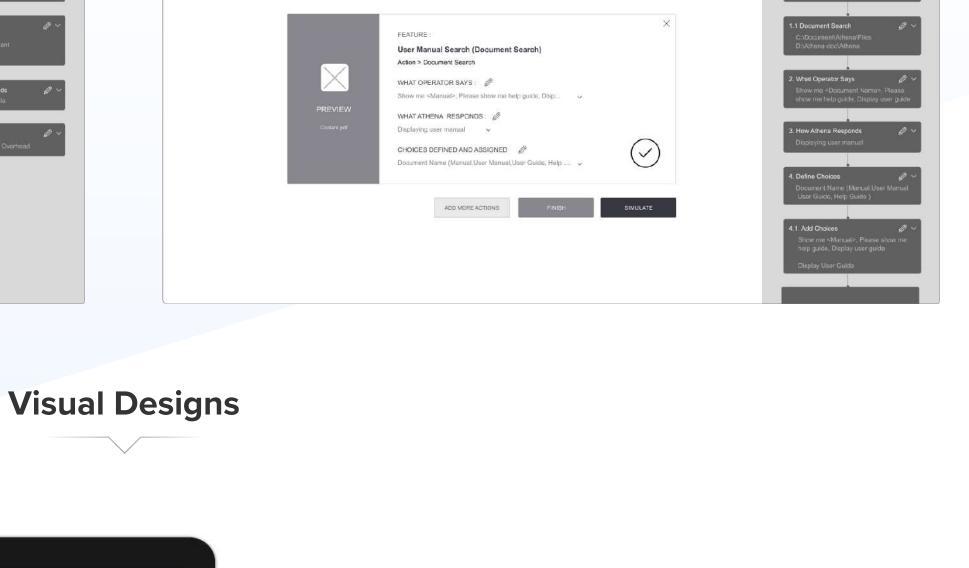
**Configure operator's vocabulary** 

This steps is based on the option selected at

step 1. User is trying to create and insert

advance list to the system.

SELECT AN ACTION

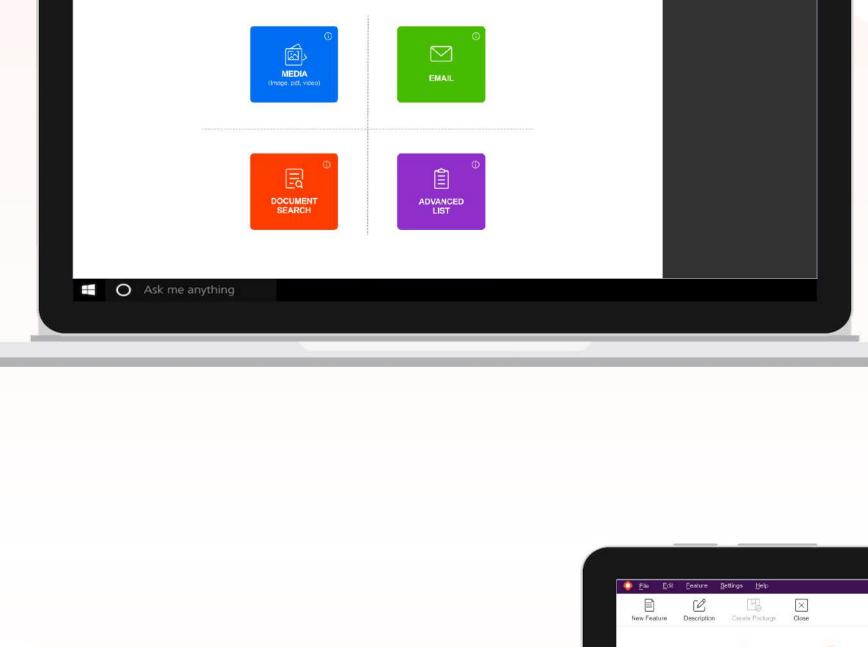


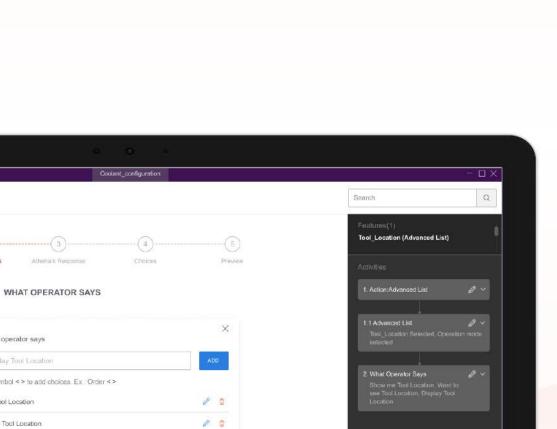
**Start with action** 

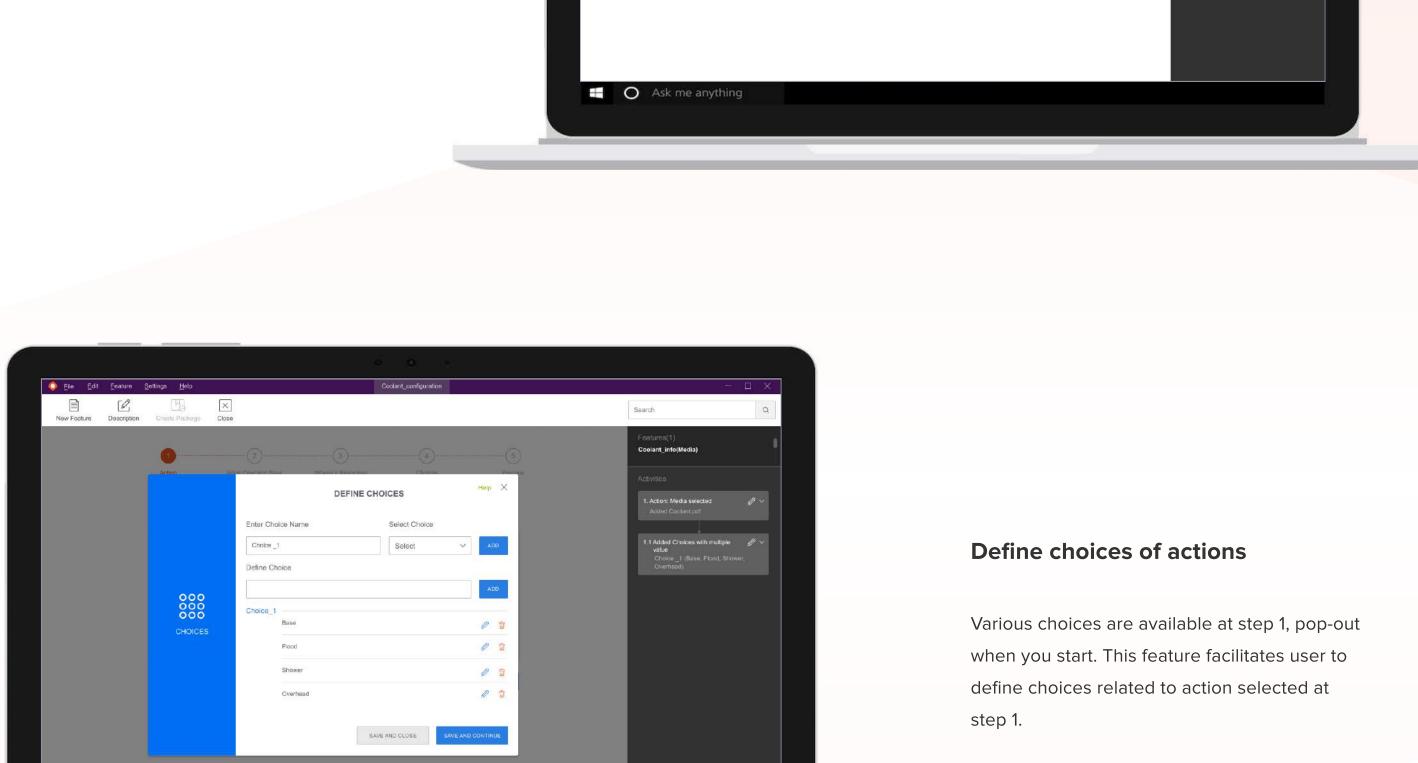
what user want to do.

Entire process is divided into 5 steps. User can

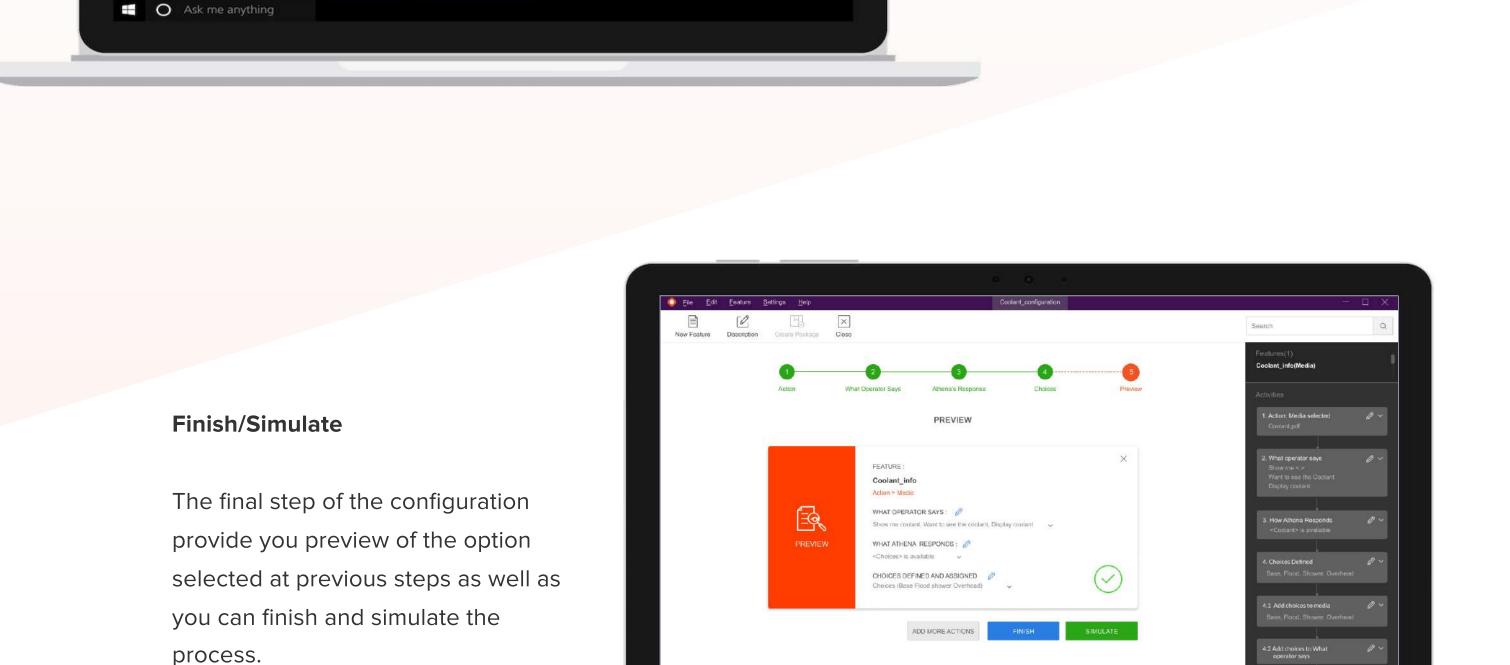
initiate by selecting action at first step, means







Ex: Dsiplay Tool Location



Ask me anything

**Key Takeaway** 

solution that not only improved efficiency but also revolutionized the workplace experience for machine operators. With the new solution user could easily start with desire action and accomplish the task. A personalized

By focusing on user needs, addressing unique challenges, and ensuring safety, we successfully delivered a



approach meant a better, faster experience. we ensured the entire flow—from start to end— was efficient and delightful.