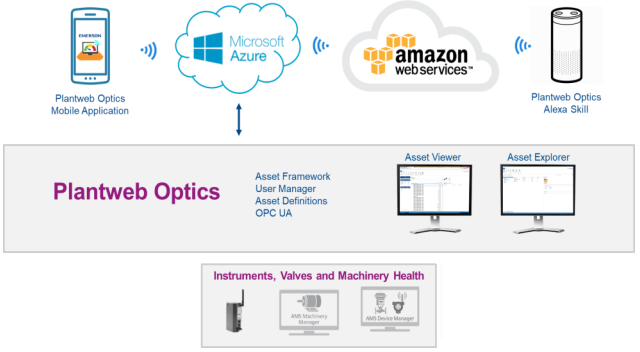
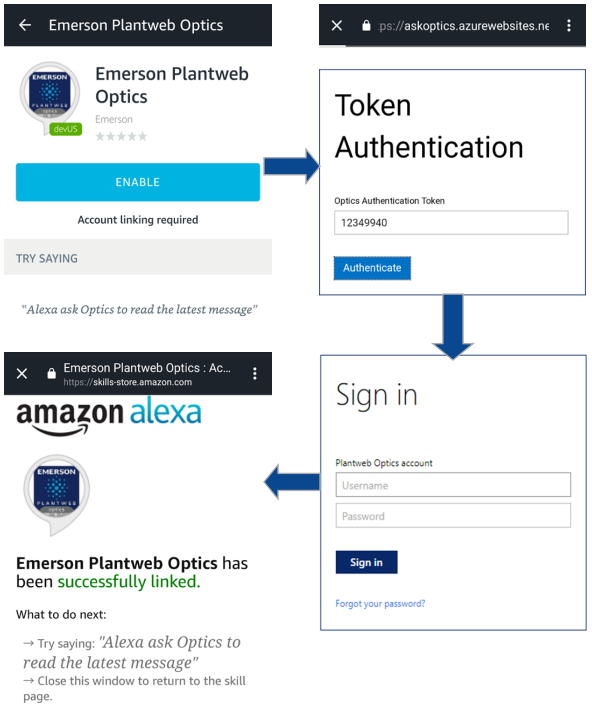
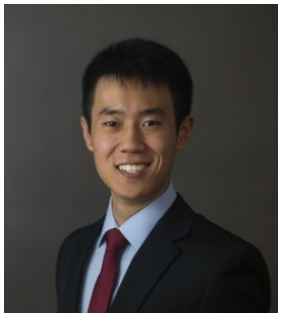
Connection Structure



Account Linking





About Us

Simon & Joel are both undergraduate Software Engineering students at the University of Texas at Austin. Joel is a rising senior who is aiming to continue his software engineering education via the integrated MSE program at UT. Simon is a rising junior who hopes to work on school projects that will be as exciting as this one. Both interns had a blast this summer and enjoyed writing about each other in the third person.

EMERSON
Process Management

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PLANTWEB
optics

Plantweb Optics Alexa Skill

About Plantweb Optics

Today's technology advances are making it easier than ever to stay on top of asset health. Applications for smart phones and tablets keep personnel in touch to collaborate on developing production issues. Data from various predictive intelligence applications are aggregated to create a holistic picture of asset health. And all this information is available anytime and from anywhere.

Plantweb Optics is the new collaboration software application for managing asset health across the enterprise. Plantweb Optics combines the data from multiple applications into asset-centric information, then delivers persona-based alerts and KPIs for improving the reliability of your rotating equipment, instruments and valves.

About the Alexa Skill

Alexa provides capabilities, or skills, that enable customers to create a more personalized experience. These skills radically expand the Echo's repertoire, allowing users to perform more actions with voice-activated control through Alexa.

Our Alexa Skill allows the user to interact with Plantweb Optics. First, it securely links the user's Amazon's account to their Optics account. This allows the user to quickly access information about their Optics account, such as messages or asset statuses. This skill also allows the users to ask for compact reports, which assist in providing useful updates about the plant's status.

Command Structure

Alexa...

Ask Optics { for / to / about } **[Command]**

[Command] { from / in / using } **Optics**

Message Commands

Number of Messages (+ unread, read, urgent)

- "Alexa, what is the count of the urgent messages from Optics?"
- "Alexa, can you ask Optics whether I have any urgent messages?"

Latest Message (+ unread, read, urgent)

- "Alexa, get me the latest unread message from Optics."
- "Alexa, ask Optics for my newest message that is urgent."

Asset Commands

Number of Assets (+ unhealthy, watched, flagged) (+ function type)*

- "Alexa, do I have any unhealthy assets in Optics?"
- "Alexa, can you ask Optics to read me the count of unhealthy valves?"

Unhealthiest Assets (+ 1-10) (+ function type)*

- "Alexa, ask Optics for my unhealthiest asset."
- "Alexa, read me my six valves that are unhealthiest in Optics."

Other Commands

Health Report

- "Alexa, what's my health report in Optics?"
- "Alexa, give me the health status report using Optics."

Dashboard Report

- "Alexa, can you ask Optics for the dashboard report?"
- "Alexa, dashboard status from Optics."

Glossary Definitions

- "Alexa, ask Optics to define channel mapping."
- "Alexa, can you tell me the definition of a filter in Optics."

Future Ideas

Content Creation + Dialog Mode

- Modifying **message** or **asset mentioned in a message**
  - –Ignoring, flagging, watch listing
  - –Modifying failure effects, functions, tags, priority levels
- Creating a **message**

Expansion to other digital assistants