

Conversational UI with Drupal

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Key Pointers

- Introduction & state
- Major Frameworks
- Tips
- Tooling & Pre-requisites
- Key Concepts
- Integration with Drupal
- POC demo of integration with Commerce
- Future Extension

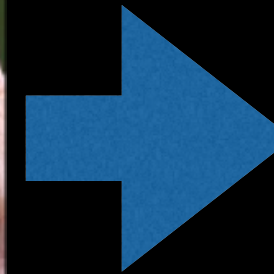
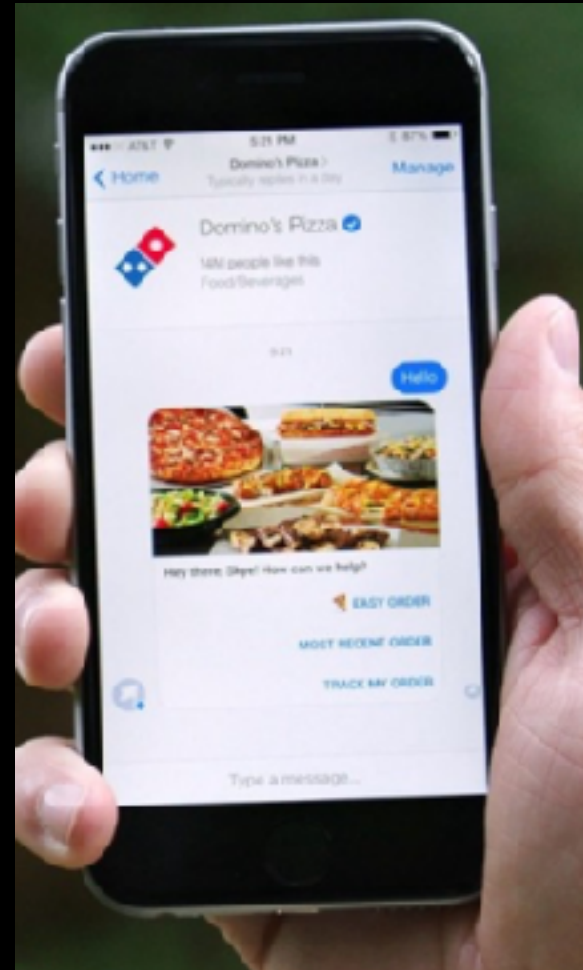
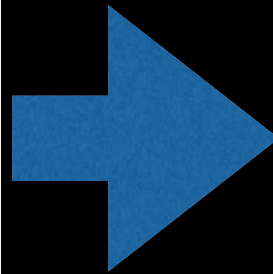
Introduction

Google Trends data for search term “chatbot”, for august 2012–2017

Intresse över tid ?



Evolution



Alexa, Please
order a [chicken
Mexicana]
[cheese burst]
pizza for me

“According to Gartner, by 2020, 30% of web browsing sessions will be done without a screen.”

Major Frameworks in Market



...

Tips around designing a conversational UI

Tip#1: Clear Flow

- What user/customer problem will it solve efficiently?
- How will it benefit the target audience and you?

- Improve discoverability by providing hints
- Simplify data entry
- Avoid asking open-ended and rhetorical questions

e.g.,

Closed-ended question (e.g. “What color is your shirt?”)

Open-ended question (e.g. “Why did you choose that color for your shirt?”)

Tip#2: User-Control

- Don't leave the user hanging
- Graceful error handling
- Provide undo/cancel/reset
- Confirm by asking/Not stating

Tip#3: Personality

- Keep it as human as possible

<speak>

I want to tell you a secret.

<amazon:effect name="whispered">I am not a real human.</amazon:effect>.

Can you believe it?

</speak>

<speak>

I already told you I

<emphasis level="strong">really like</emphasis>

that person.

</speak>

Tip#4: Cognitive load

- Be concise when interacting with users
- Prioritized & Personalized information
- Avoid jargon

Tools & Pre-requisites

- Strong understanding of REST/Web-services & authorization methods
- Understanding around basic terminologies: Intent, Context, Utterances
- Basic sense/ research around designing interfaces for different apps.

Key Concepts

Activation

Alexa,
Ask Drucom

Invocation

To

Add [red wine] to my cart

Slot

Utterance & Intent



QED42

Activation

- Possible names: Alexa, Echo, Amazon
- Doesn't allow custom names.
- Configurable per device

Invocation

- Open, Launch, Ask + {skill name}
- Again, fixed keywords. Cannot add a custom invocation keyword.

Utterances

- Human way of talking to your Alexa app.

Alexa, ask drucom to add red wine to my cart.

Alexa, ask drucom I want to add red wine to my cart.

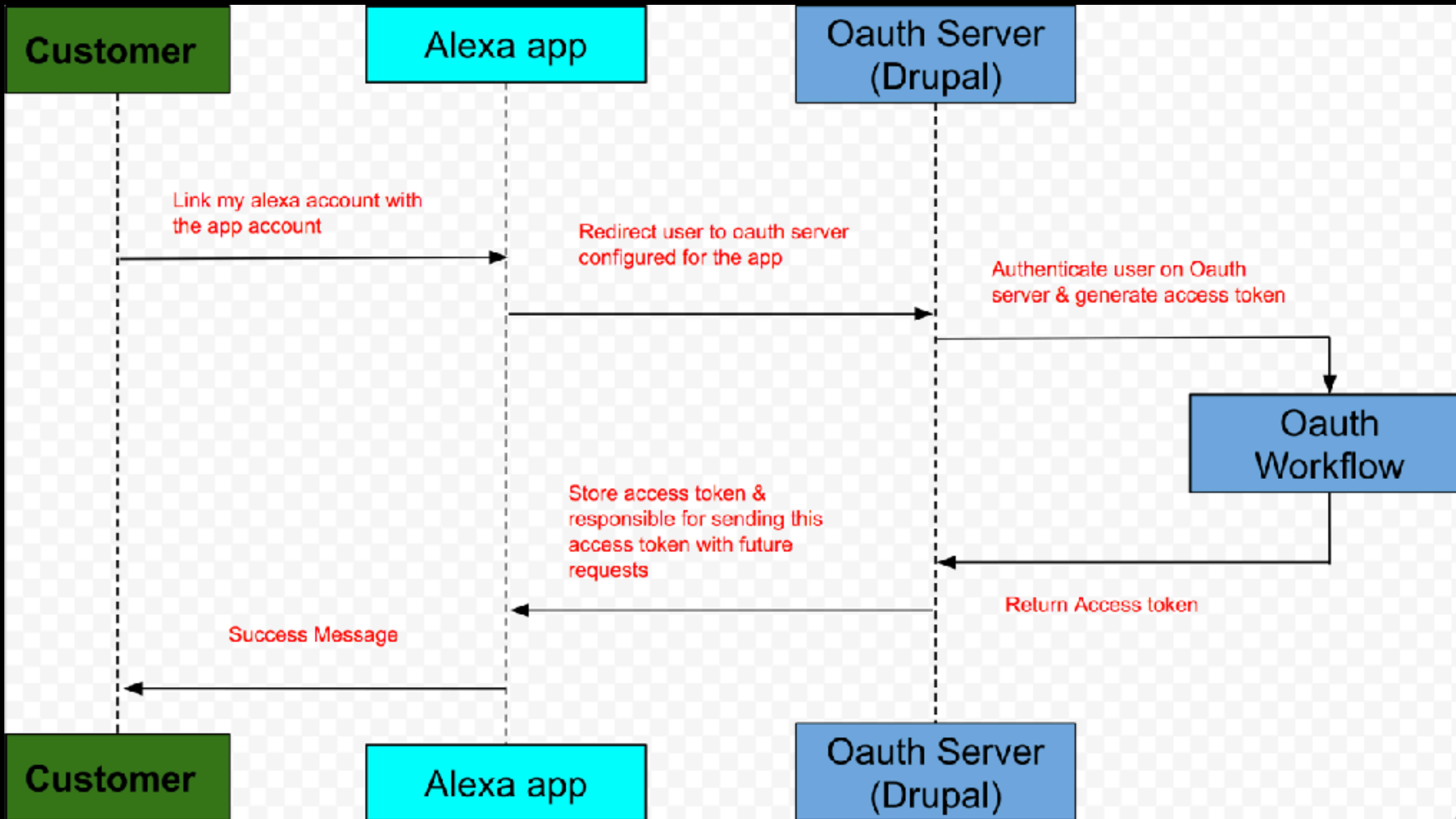
Alexa, ask drucom I want to purchase red wine.

Intents

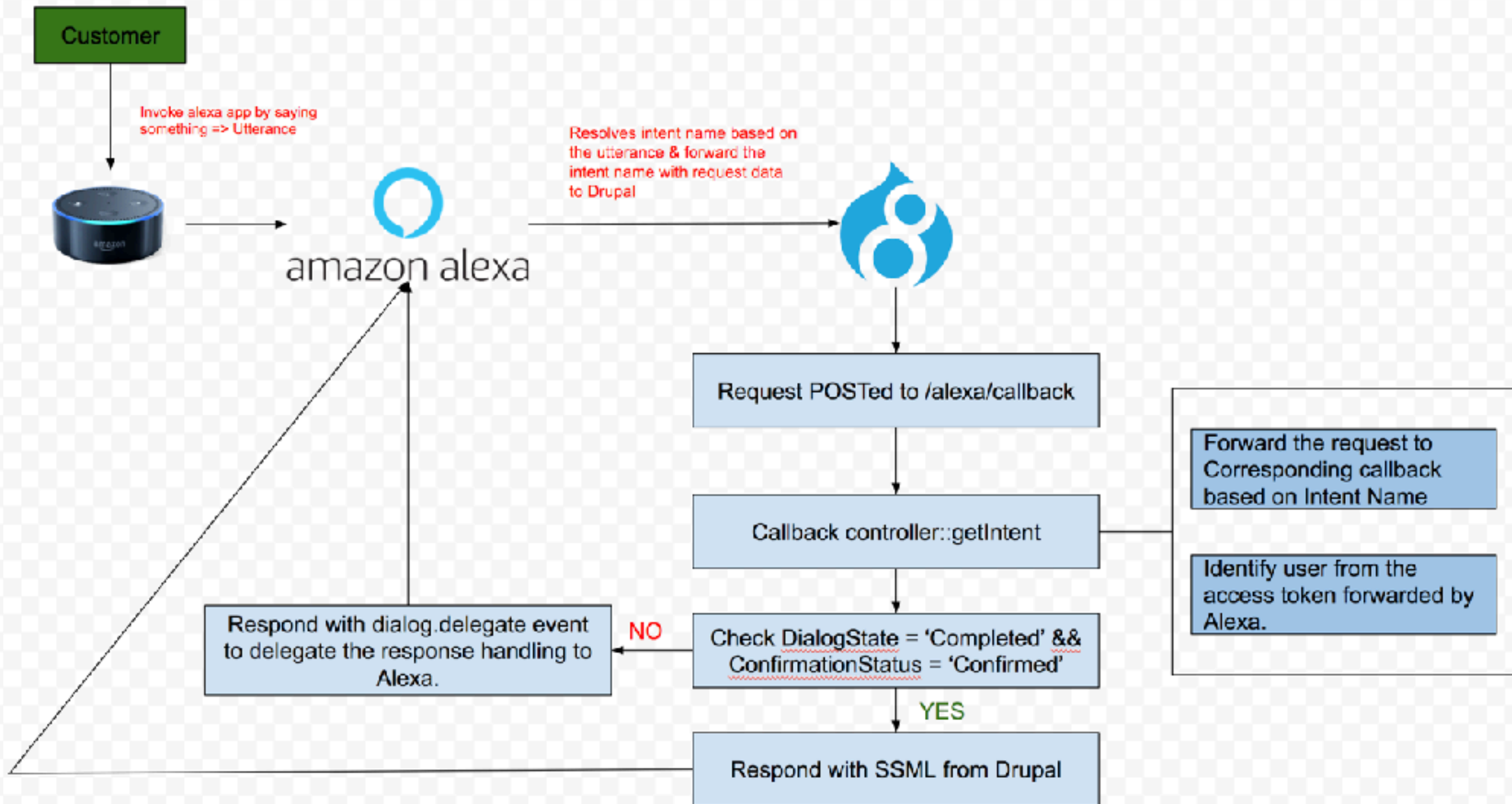
- Functional points provided by Alexa Skill.
- Utterances resolve to an intent.

Drupal Integration with Alexa

Linking user



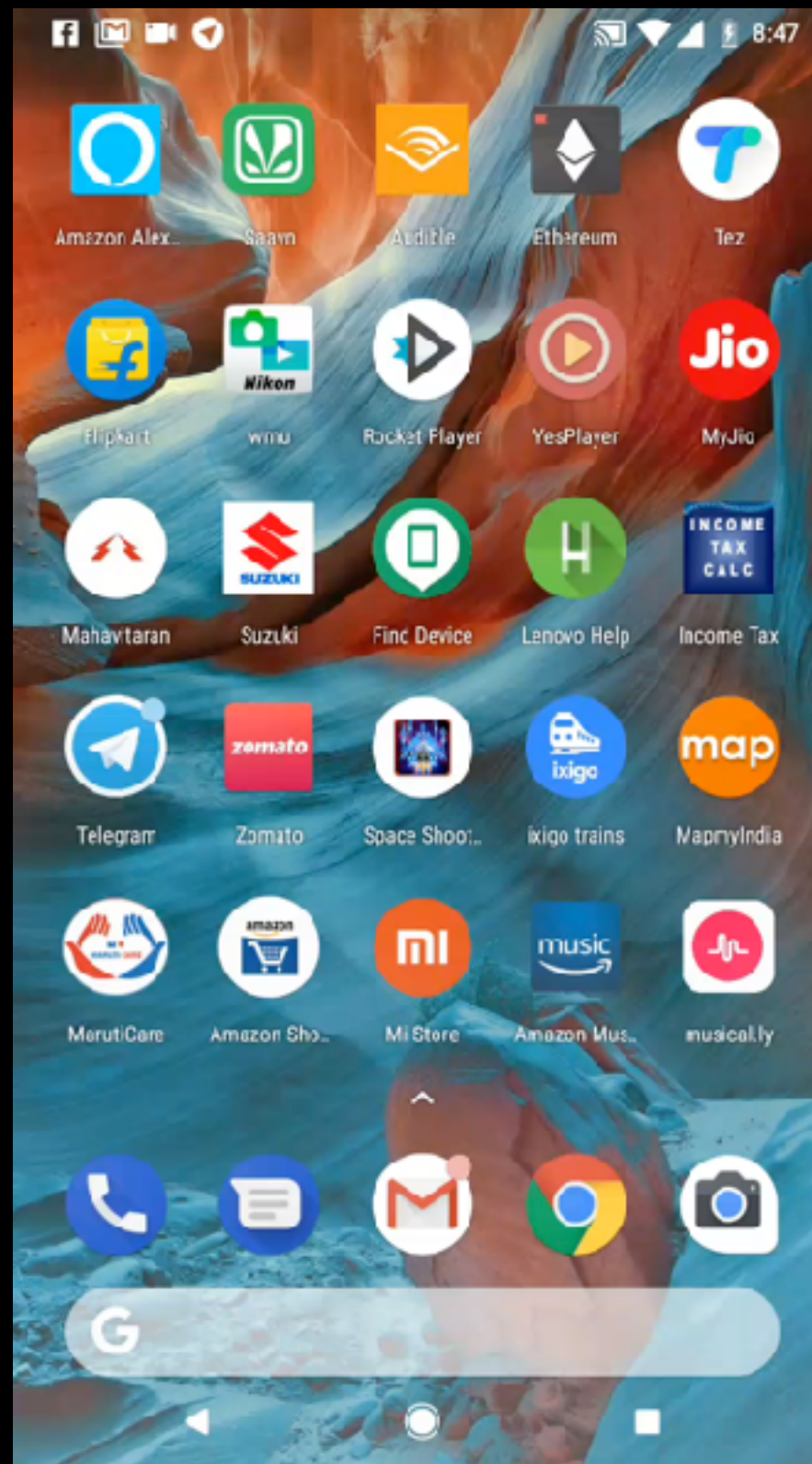
Alexa Request-Response



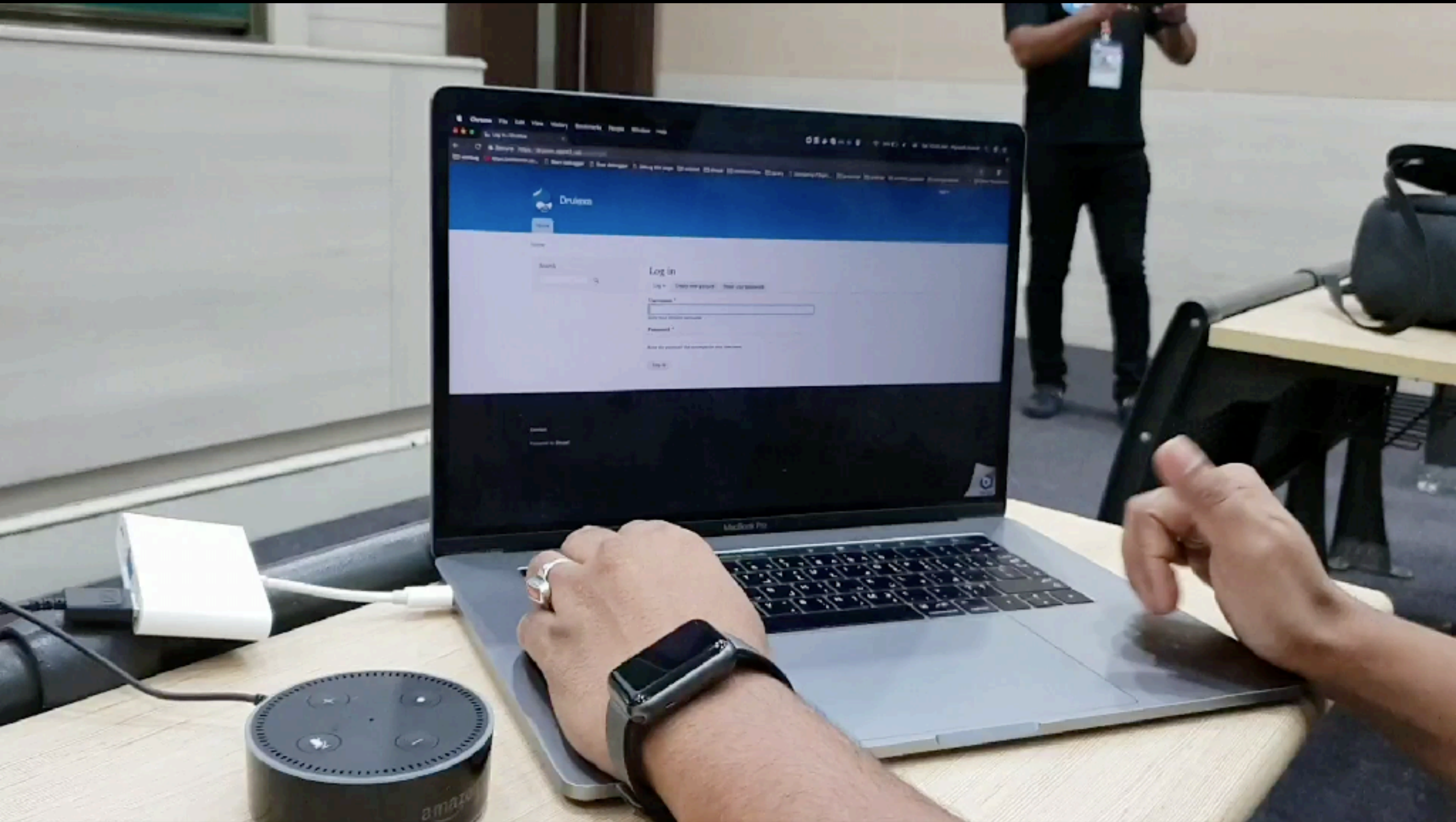
DEMO



User Linking



Talking to Drucom



Packaging & Future plans

- Make Drucom support transactions with card on file. (Need D8 port for https://www.drupal.org/project/commerce_cardonfile)
- Commerce entities to be synced in as valid slot values in Alexa app. (Webhook to POST data to Alexa for this)
- Making Product search conversational
- Packaging this up & releasing as a plug-in for Drupal commerce Distribution.

Thank You!