Red Pepper login sequence and user identity management via Amazon *Cognito*

The user will interface with the service through four end points

The Alexa skill, over voice through Echo, generates the **Alexa User ID**, which becomes the 'key' for the user record in the database

In other interfaces, like the Red Pepper app, user logs in through the **Federated login ID** (e.g. Log in via Facebook) .

Cognito service connects the **Alexa User ID** to the **Federated login ID**, which allows the Server API/Lambda to access database record with the **Alexa User ID** key

Development Project:
1. Need a service login page serviced by Cognito
2. Enhancement in the Server Lambda function (Python) to access the Cognito service and access login data
3. Enhance the API gateway to pass through the Cognito token to function

Sequence of user interaction

User Interaction Interface

User Identity logged in with

1

amazon echo

Alexa RedPepper Skill

✦ **Alexa User ID**

Alexa Skill Lambda

- First interaction of user over voice with Alexa Red Pepper skill
- **Alexa User ID** gets generated, and corresponding record in the DynamoDB with **Alexa User ID** as the key
- Red Pepper Skill prompts user to link the federated ID on Alexa App card

all DB write and read is based on the key **Alexa User ID**

2

amazon alexa

Alexa App

✦ **Federated login ID**

✦ **Cognito ID**

DynamoDb

- User links the Red Pepper Skill with the service login page with **Federated Login ID**
- The **Alexa User ID** is written as persistent data associated with federated login in **Amazon Cognito**

Cognito ID associated with **Federated Login ID** will record the **Alexa User ID** as synced data

Key : Alexa User ID

3

RedPepper App

✦ **Federated login ID**

- After login with the **Federated Login ID** Cognito returns the **Alexa User ID** to record data into the DB

Server Gateway API

Server Lambda

all DB write and read is based on the key **Alexa User ID**

4

Chatbot

✦ **Federated login ID**