

Storing State Across Sessions

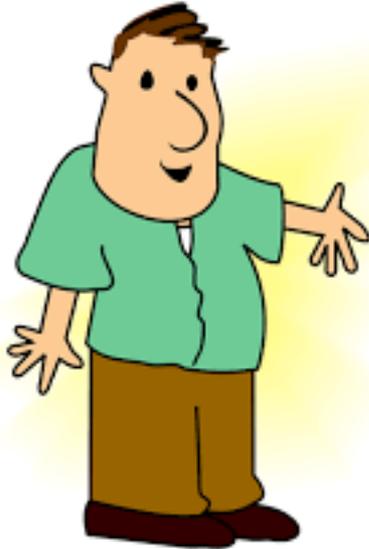
Overview

DynamoDB a NoSQL database

Stored state across sessions

Building a simple My Stock List skill with stored state

Having a Conversation with Alexa



I'm interested in Amazon

Opening, closing, high or low price?

Opening price

What day do you want this for?

October 5, 2017

Amazon was at \$950 on
October 5, 2017



Having a Conversation with Alexa



I'm interested in Amazon's high price

What day do you want this information for?



Forgot to do Laundry



I'm interested in Amazon's high price

What day do you want this information for?

8e

What day do you want this information for?

8e

Goodbye



Having a Conversation with Alexa



October 5th, 2017

Huh...? I didn't get you



Having a Conversation with Alexa

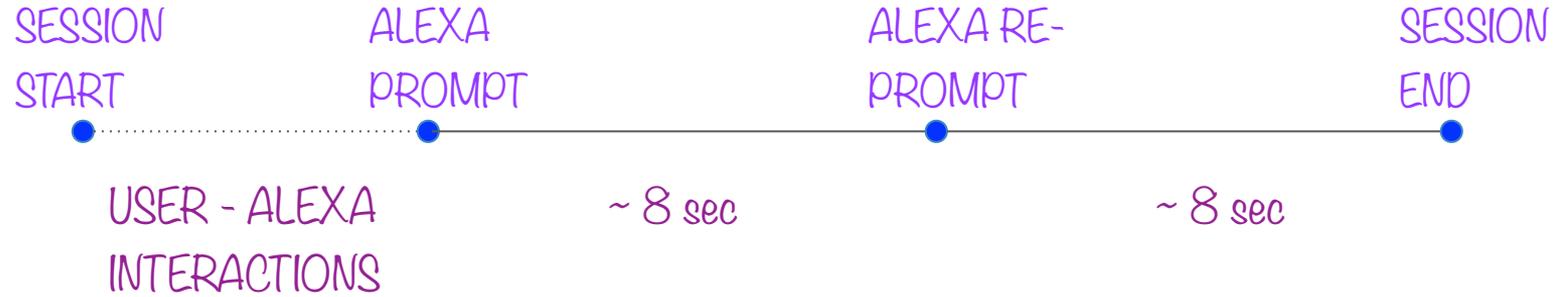


I'm interested in Amazon's high price

What day do you want this information for?



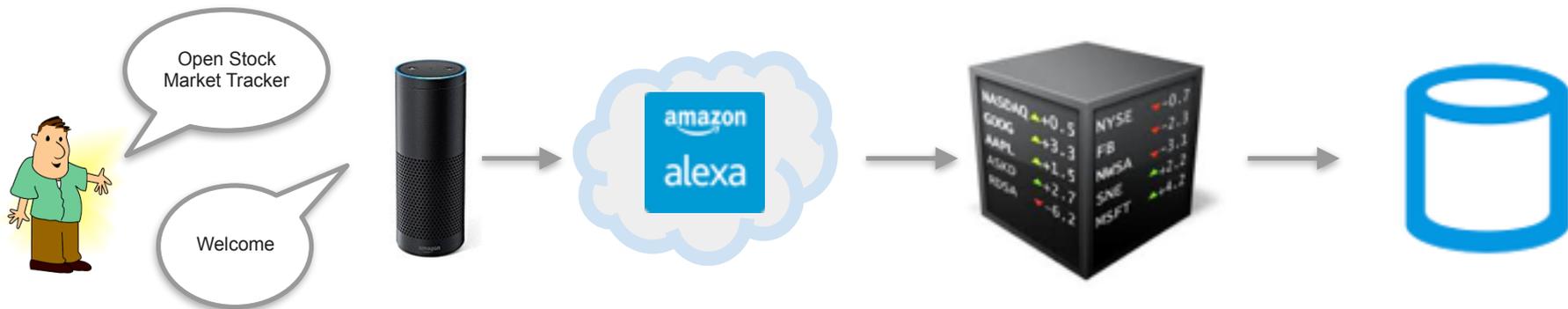
Data Persistence Timeline



Alexa does not remember information specified in
slots across sessions

unless explicitly handled i.e. using persistence

Persisting State Across Sessions



The skill has to explicitly store state in a database, which can then be accessed in a new session

Amazon Dynamo DB



NoSQL Database

Fully managed AWS Service

Lambda Ready

DynamoDB Table

KEY	VALUE
userId: amzn1.ask.account.AF...	Stocks: {Amazon, VMware, Microsoft, ...}
userId: amzn1.ask.account.AF...	Stocks: {IBM, Apple, ...}
...	...
...	...

Demo

Instantiate a DynamoDB instance in AWS

<https://aws.amazon.com/dynamodb/>

Demo

Build a skill to track your favorite stocks

- List Stocks
- Add new stocks
- Remove stocks

Persisting State Across Sessions



What are my favorite stocks

Google, Microsoft

Add Apple

Apple added



Persisting State Across Sessions



Persisting State Across Sessions



What are my favorite stocks

Google, Microsoft, Apple

Remove Microsoft

Microsoft removed

