

# 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?

8s

What day do you want this information for?

8s

Goodbye



# Having a Conversation with Alexa



October 5th, 2017

Huh...? I didn't get you



# Having a Conversation with Alexa

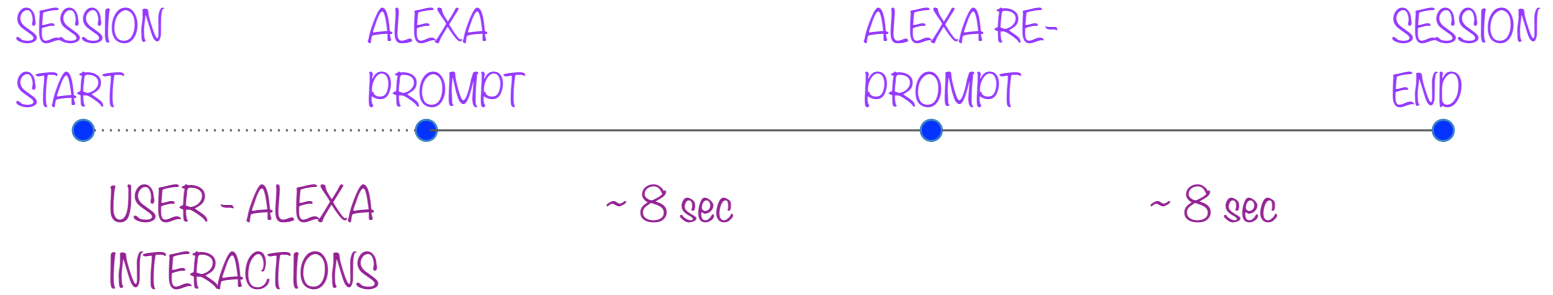


I'm interested in Amazon's high price

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 DynamoDB



NoSQL Database

Fully managed AWS Service

Lambda Ready

# DynamoDB Table

KEY	VALUE
userId: amzn!ask.account.AF...	Stocks: {Amazon, VMware, Microsoft, ...}
userId: amzn!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

