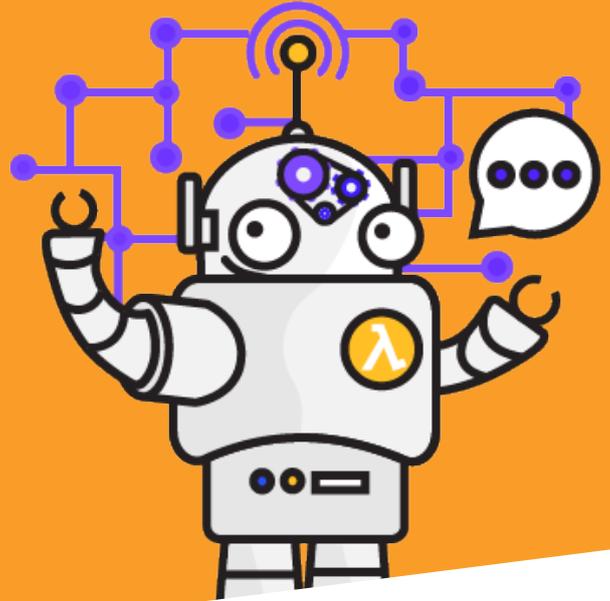AWS and Swinburne KIOSC

# Chatbot Challenge

## What is a Chatbot and How is it Currently Used in Everyday Life?

A Chatbot can help perform automated tasks by using Automatic Speech Recognition (ASR) and Natural Language Understanding (NLU) capabilities. This allows people to easily order pizza, book a hotel, and order lowers. They are currently implemented in a lot of areas such as websites and mobile applications to answer basic queries.

## Challenge Competition

Think of a chatbot application that can be applied on your school website to enable more interactive conversations and easier use of school facilities. e.g. CanteenBot, SubjectBot (gives you details about subjects), etc. You might be able to see it run live on your school website once you build it out. Have fun!

Try out these interactive chabots created by NASA and RyanAir

Let's get started and build your own Chatbot!

# Challenge Chatbot Ideas

A Chatbot that can:

Answer homework questions

Give out sporting event locations/Event dates

Answer FAQ for school dates

Help someone in quarantine feel less lonely (e.g. jokes)

Provide information regarding assignment due dates

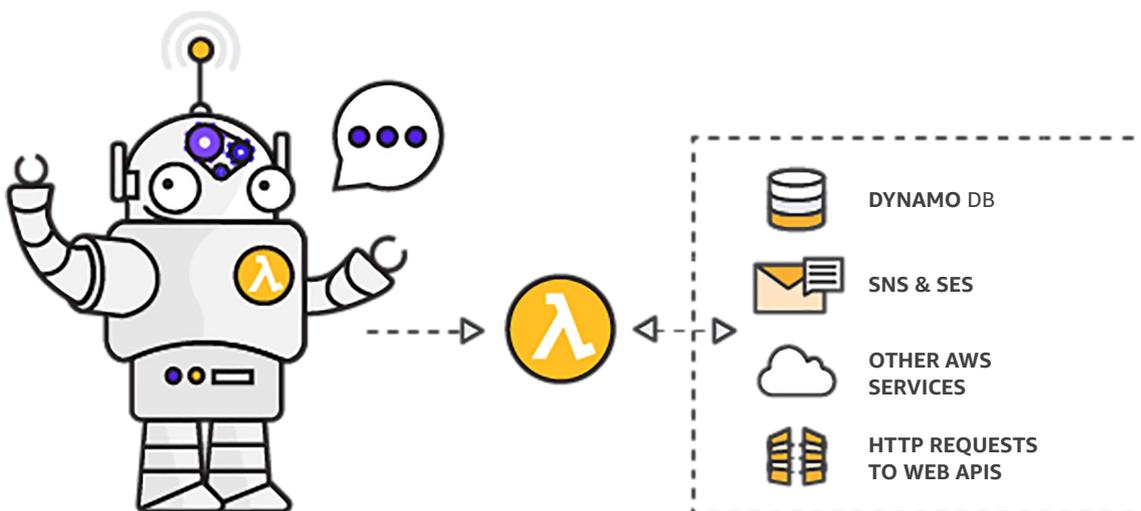Answer FAQ for basic health advice

Give out weather forecasts

Do anything else that may be helpful to your users

# Chatbot Running on Lex and Lambda



**DYNAMO** DB

**SNS & SES**

**OTHER AWS SERVICES**

**HTTP REQUESTS TO WEB APIS**

*The chatbot can understand user requests. It can reply with answers, perform actions, ask for more inputs, or respond with error-handling prompts.*

*The chatbot fulfills user requests by triggering AWS Lambda. Lamda retrieves the requested information or performs other types of actions.*

# Terms and Conditions

## Common Terms
These are the official rules that govern how the Amazon Web Services (AWS ) and Swinburne KIOSC Chatbot Challenge will operate ("Contest").

## Dates and Timing

- Submission due: June 26, 2020
- Judging period: June 27 to July 10, 2020
- Announcing winners: July 13, 2020

## Eligibility
The chatbot challenge is open to students between the ages of 14-17 years.

## Submission

- **Step 1** - Sign-up for an <u>AWS Educate</u> account to access your free $100 AWS Starter Credits to build your Chatbot. Click <u>here</u> for how to instructions.

- **Step 2** - Complete the <u>Chatbot Tutorial</u> to help you develop and build your Chatbot.

- **Step 3** - Submit your Chatbot using <u>this website</u>
  - Part 1 - Submit a 1 page summary of the problem you have identified and a summary of how this Chatbot provides a solution to the problem.
  - Part 2 - Submit a video demo recording of the Chatbot in action.

## Winners and Judging Criteria

At the close of the contest period, a panel of AWS judges will review all entries and select 3 prize winners based on the following criteria.

**Customer Value:** The extent to which the Chatbot answers your users problem.

**Quality of Idea:** Creativity and originality of the Chatbot idea. Is your Chatbot differentiated or does it solve your users' problems in a unique way?

**Implementation of Idea:** How well the Chatbot idea was executed and developed. Does it function as intended?

## Submission Review
Judges are not required to test the application and may choose to judge based solely on the text description, code, and video provided in the Submission.

## Prizes
Winners will each receive an Amazon Echo Show 5.