

# First Aid Made Easy

Anish Saha | 22 February 2017



# Overview

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First Aid Made Easy is a simple first aid skill for Alexa to be used in emergency situations. It is capable of only a few functions, including informing the user on procedures relating to common injuries and giving instructions on performing CPR. Currently, it supports procedures for 10 common emergencies: Checking an Injured Adult, Choking, CPR, AED, Controlling Bleeding, Burns, Poisoning, Neck Injuries, Spinal Injuries, and Stroke. For most of these, the skill will simply respond, “Call 911 and seek immediate medical attention” as most civilians are not properly equipped or trained to handle such situations.

## General Functionality

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This section is a walkthrough on how the skill is used.

This skill can be started with the word “hi”. At any time, the user can say the utterance “What can I say?” to which Alexa will respond with a list of all the possible commands, even in the midst of CPR. The user can say “I need help with \_\_\_\_\_” to ask for instructions, but similar utterances such as “someone is injured” or “this person is bleeding out” will trigger the same related response. Please see the utterances.txt file for more information on related commands. Here are some samples:

### Service Simulator

Use Service Simulator to test your lambda function: `arn:aws:lambda:us-east-1:393149190027:function:FirstAidApp`

Note: Service Simulator does not currently support testing audio player directives and customer account linking.

Text

JSON

Enter Utterance

someone is hurt

Ask First Aid Made Easy

Reset

Lambda Request

Lambda Response

```
1 {
2   "session": {
3     "sessionId": "SessionId.5bfd228c-703d-49bd-
4     "application": {
5       "applicationId": "amzn1.ask.skill.61546fb
6     },
7     "attributes": {
8       "speechOutput": "This is First Aid, What
9       "repromptSpeech": "For more detailed inst
10    },
11    "user": {
12      "userId": "amzn1.ask.account.AGXIMES25XVC
13    },
14    "new": false
15  },
16  "request": {
```

```
1 {
2   "version": "1.0",
3   "response": {
4     "outputSpeech": {
5       "type": "SSML",
6       "ssml": "<speak> Call 911 and seek imme
7     },
8     "reprompt": {
9       "outputSpeech": {
10        "type": "SSML",
11        "ssml": "<speak> undefined </speak>"
12      }
13    },
14    "shouldEndSession": false
```

Listen

## Service Simulator

Use Service Simulator to test your lambda function: `arn:aws:lambda:us-east-1:393149190027:function:FirstAidApp`

Note: Service Simulator does not currently support testing audio player directives and customer account linking.

Text

JSON

Enter Utterance

this person is bleeding

Ask First Aid Made Easy

Reset

Lambda Request

```
1 {
2   "session": {
3     "sessionId": "SessionId.5bfd228c-703d-49bd-
4     "application": {
5       "applicationId": "amzn1.ask.skill.61546fb
6     },
7     "attributes": {
8       "speechOutput": "This is First Aid, What
9       "repromptSpeech": "For more detailed inst
10    },
11    "user": {
12      "userId": "amzn1.ask.account.AGXIMES25XVC
13    },
14    "new": false
15  },
16  "request": {
```

Lambda Response

```
1 {
2   "version": "1.0",
3   "response": {
4     "outputSpeech": {
5       "type": "SSML",
6       "ssml": "<speack> Call 911 and seek imme
7     },
8     "reprompt": {
9       "outputSpeech": {
10        "type": "SSML",
11        "ssml": "<speack> undefined </speack>"
12      }
13    },
14    "shouldEndSession": false
```

Listen

## Service Simulator

Use Service Simulator to test your lambda function: `arn:aws:lambda:us-east-1:393149190027:function:FirstAidApp`

Note: Service Simulator does not currently support testing audio player directives and customer account linking.

Text

JSON

Enter Utterance

i need help with poisoning

Ask First Aid Made Easy

Reset

Lambda Request

```
1 {
2   "session": {
3     "sessionId": "SessionId.116ccb6f-8774-4e77-
4     "application": {
5       "applicationId": "amzn1.ask.skill.61546fb
6     },
7     "attributes": {
8       "speechOutput": "This is First Aid, What
9       "repromptSpeech": "For more detailed inst
10    },
11    "user": {
12      "userId": "amzn1.ask.account.AGXIMES25XVC
13    },
14    "new": false
15  },
16  "request": {
```

Lambda Response

```
1 {
2   "version": "1.0",
3   "response": {
4     "outputSpeech": {
5       "type": "SSML",
6       "ssml": "<speack> Call 911 and seek imme
7     },
8     "reprompt": {
9       "outputSpeech": {
10        "type": "SSML",
11        "ssml": "<speack> undefined </speack>"
12      }
13    },
14    "shouldEndSession": false
```

Listen

# CPR Functionality

The user can also get help with administering CPR by asking Alexa “I need help with CPR.” This will start a loop in which the user is instructed to do 30 chest compressions at a rate of 100 beats per minute (which they can get assistance with by saying the word “rhythm”). Then when the user says “Done,” he/she is instructed on how to give three rescue breaths. Saying “Done” will continue the loop as such until the user says “Quit CPR” or “Stop CPR,” upon which he/she will be prompted with a confirmation message (see below). The user can also restart the loop at the chest compression stage by saying “restart,” and help can be found by asking “What can I say” or by asking “How do I do chest compressions?” or “How do I do rescue breaths?” where Alexa will dictate or repeat further instructions.

## Service Simulator

Use Service Simulator to test your lambda function: `arn:aws:lambda:us-east-1:393149190027:function:FirstAidApp`

Note: Service Simulator does not currently support testing audio player directives and customer account linking.

Text

JSON

Enter Utterance

quit cpr

Ask First Aid Made Easy

Reset

Lambda Request

```
1 {
2   "session": {
3     "sessionId": "SessionId.116ccb6f-8774-4e77-
4     "application": {
5       "applicationId": "amzn1.ask.skill.61546fb
6     },
7     "attributes": {
8       "speechOutput": "This is First Aid, What
9       "repromptSpeech": "For more detailed inst
10    },
11    "user": {
12      "userId": "amzn1.ask.account.AGXIMES25XVC
13    },
14    "new": false
15  },
16  "request": {
```

Lambda Response

```
1
2   "session": "1.0",
3   "response": {
4     "outputSpeech": {
5       "type": "SSML",
6       "ssml": "<speak> Are you sure you want to stc
7     },
8     "reprompt": {
9       "outputSpeech": {
10        "type": "SSML",
11        "ssml": "<speak> undefined </speak>"
12      }
13    },
14    "shouldEndSession": false
```

Listen

## Service Simulator

Use Service Simulator to test your lambda function: `arn:aws:lambda:us-east-1:393149190027:function:FirstAidApp` ▾

Note: Service Simulator does not currently support testing audio player directives and customer account linking.

Text

JSON

Enter Utterance

yes

Ask First Aid Made Easy

Reset

Lambda Request

```
1 {
2   "session": {
3     "sessionId": "SessionId.116ccb6f-8774-4e77-
4     "application": {
5       "applicationId": "amzn1.ask.skill.61546fb
6     },
7     "attributes": {
8       "speechOutput": "This is First Aid, What
9       "repromptSpeech": "For more detailed inst
10    },
11    "user": {
12      "userId": "amzn1.ask.account.AGXIMES25XVC
13    },
14    "new": false
15  },
16  "request": {
```

Lambda Response

```
1
2 "version": "1.0",
3 "response": {
4   "outputSpeech": {
5     "type": "SSML",
6     "ssml": "<speak> First Aid here, would you like he
7   },
8   "reprompt": {
9     "outputSpeech": {
10      "type": "SSML",
11      "ssml": "<speak> undefined </speak>"
12    }
13  },
14  "endSession": false
```

Listen

In conclusion, this is a simple Alexa skill for emergency situations and has room for potential improvement by means of adding more thorough responses and instructions. Nevertheless, it is effective in getting its job done. Thanks for using First Aid Made Easy!