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1. Project title

Develop Alexa Skill for COVID-19 Recommendations

1. Introduction

COVID-19 is an infectious disease caused by a newly discovered strain of coronavirus, a type of virus known to cause respiratory infections in humans. To develop Alexa Skill for COVID-19 recommendations.

I. Overview

We used Alexa Developer, Dynamo DB, Lambda, API Gateway, IAM Management Console in AWS. We created tables using Dynamo DB this is embedded with Lambda. In lambda we can write the code to insert the data in the table. The IAM is used for security purposes, identity management. It has set of permission for making AWS service request. The API gateway is between the lambda and user interface, it generates the url which is the frontend. Thus, the final output is got from the Alexa Developer.

i. Technical Stack

* Programming Language: Python 3.8
* Database: Dynamo DB - AWS
* Serverless Computing: Lambda - AWS
* Identify and Access Management: AWS IAM
* API: AWS API Gateway
* Alexa Developer

II. Purpose

Alexa is a Virtual Assistant. It provides us suggestions such as to do our regular exercise, meditations, maintain a healthy diet, create conditions for a better sleep during nights, wash our hands regularly, take necessary sanitary measures and provides additional information about the spread of disease, climatic conditions in our area.

3. Result

I. Screenshot of output

II. Code Repository

https://github.com/hariprasanth-ps/alexaskill.git

4. Application

It is used to get suggestions from Alexa Echo for COVID-19 recommendations to keep ourselves safe from the pandemic and get more information about our surroundings and to make us to fight against the disease.

5. Conclusion

Thus, we developed a Alexa SKill Developer using Amazon Developer for COVID-19 for social distancing

6. Future Scope

Alexa will provide the advice on symptoms, causes, suggestions and help us to stay safe from the COVID-19 pandemic