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PROJECT REPORT

ON

Indian States Quiz in Python for Alexa

Submitted by

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DECLARATION

I hereby declare that the project work entitled “Indian States Quiz in Python for Alexa” is an authentic record of my work carried out in B.Tech degree in Computer Science and Engineering from Lovely Professional University, Phagwara, under the guidance of Mr. Sagar Pandey, during August to November 2020. All the information furnished in this project report is based on my own intensive work and is genuine.

-Suraj Mani Kumar

CERTIFICATE

This is to certify that the declaration statement made by the student is correct to the best of my knowledge and belief. They have completed this Project under my guidance and supervision. The present work is the result of their original investigation, effort and study. No part of the work has ever been submitted for any other degree at any University. The Project is fit for the submission and partial fulfillment of the conditions for the award of B.Tech degree in Computer Science and Engineering from Lovely Professional University, Phagwara.

Mr. Sagar Pande

School of Computer Science and Engineering,
Lovely Professional University,
Phagwara, Punjab.

ACKNOWLEDGEMENT

I take this opportunity to present our votes of thanks to all those guideposts who really acted as lightening pillars to enlighten our way throughout this project that has led to successful and satisfactory completion of this study.

I am really grateful to Sagar sir for providing us with an opportunity to undertake this project and providing us with all the facilities. I am highly thankful to sir for his active support, valuable time and advice, whole-hearted guidance, sincere cooperation and pains-taking involvement during the study and in completing the assignment of preparing the said project within the time stipulated.

Lastly, I am thankful to all those, particularly the various friends, who have been instrumental in creating proper, healthy and conducive environment and including new and fresh innovative ideas for us during the project, without their help, it would have been extremely difficult for us to prepare the project in a time bound framework.

-Suraj Mani Kumar

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INTRODUCTION

The project is based on – “Indian States Quiz”.

**“Alexa is a cloud based Voice Service and
an intelligent smart personal assistant developed by Amazon”**

**Amazon’s Echo is a smart voice activated speaker with built in
web intelligence.**

It is always on and helps you to Connect with the Alexa.

In this project, the user can simply ask **Indian state capital** or Alexa will start quiz related to this.

The Skill allows users to request a quiz about the 28 States of the INDIA. They will receive 10 random questions. This simple "quiz" skill will teach you how the different pieces of the Alexa Skill development process fit together.

We use will use the Skill builder UI to build the Skill although the quiz itself does not employ the new "Dialog-Delegate interface" model.

Topic

Build An Alexa Quiz Skill in Python using ASK Python SDK

Technology Learnt

- [AWS Lambda](#)
- [Alexa Skills Kit \(ASK\)](#)
- Using the [Skill builder \(beta\)](#)
- Voice User Interface (VUI) Design

The ASK SDK Core package provides core Alexa Skills Kit functionality, for building Alexa Skills.

ask-sdk-core is the core SDK package for Alexa Skills Kit (ASK) by the Software Development Kit (SDK) team for Python. It provides the base components and default implementations which work as the boiler plate code for developing Alexa Skills.

Requirements of project

Hardware Requirements of Project:

Smartphone- A smartphone with an alexa app.

Amazon Echo , Echo Dot – It's required with skill enabled.

Software Requirements of Project:

- [Amazon Developer Portal Account](#)
- [Amazon Web Services Account](#)
- [ASK Python SDK](#)
- A basic understanding of Python.

HOW TO RUN THE PROJECT

To run this project, you must have any alexa enabled device.

Amazon Echo, Echo Dot.

Or

Smartphone with Alexa app (with skill enabled).

Steps:

1. Open Alexa app and search for Skill named as Indian States quiz. or click this link <https://www.amazon.com/gp/product/B08MKWRR1N> to enable this skill.
2. Then Just ask Alexa, start Indian states quiz.
3. Then, Alexa will first welcome you & ask you to start the quiz.
4. Just say start a quiz, Alexa will randomly ask quiz of state and capital, statehood (in which year state was formed.)
5. On each question it will give reaction for right and wrong answer as well as count score.
6. At last it will calculate the score. & greet the user.

Project

python-indian-states-quiz-game

.ask

.git

lambda

alex

lambda_function.py

requirements.txt

skill-package

.gitignore

ask-resources.json

lambda_function.py

```

7
8 import json
9 import logging
10
11 from ask_sdk_core.skill_builder import SkillBuilder
12 from ask_sdk_core.handler_input import HandlerInput
13 from ask_sdk_core.serialize import DefaultSerializer
14 from ask_sdk_core.dispatch_components import (
15     AbstractRequestHandler, AbstractExceptionHandler,
16     AbstractResponseInterceptor, AbstractRequestInterceptor)
17 from ask_sdk_core.utils import is_intent_name, is_request_type
18 from ask_sdk_core.response_helper import (
19     get_plain_text_content, get_rich_text_content)
20
21 from ask_sdk_model.interfaces.display import (
22     ImageInstance, Image, RenderTemplateDirective, ListTemplate1,
23     BackButtonBehavior, ListItem, BodyTemplate2, BodyTemplate1)
24 from ask_sdk_model import ui, Response
25
26 from alexa import data, util
27
28
29 # Skill Builder object
30 sb = SkillBuilder()
31
32 logger = logging.getLogger(__name__)
33 logger.setLevel(logging.INFO)
34
35
36 # Request Handler classes
37 class LaunchRequestHandler(AbstractRequestHandler):
38     """Handler for skill launch."""
39     def can_handle(self, handler_input):
40         # type: (HandlerInput) -> bool
41         return is_request_type("LaunchRequest")(handler_input)
42
43     def handle(self, handler_input):
44         # type: (HandlerInput) -> Response

```

lambda\lambda_function.py 1:1

Project

python-indian-states-quiz-game

> .ask

> .git

▼ lambda

▼ alexa

__init__.py

data.py

util.py

lambda_function.py

requirements.txt

> skill-package

.gitignore

ask-resources.json

util.py

```
1 # -*- coding: utf-8 -*-
2
3 """Utility module to generate text for commonly used responses."""
4
5 import random
6 import six
7 from ask_sdk_core.handler_input import HandlerInput
8 from ask_sdk_core.utils import is_request_type
9
10 from . import data
11
12
13 def get_random_state(states_list):
14     """Return a random value from the list of states."""
15     return random.choice(states_list)
16
17
18 def state_properties():
19     """Return the list of state properties."""
20     val = ["abbreviation", "capital", "statehood_year",
21           "statehood_order"]
22     return val
23
24
25 def get_random_state_property():
26     """Return a random state property."""
27     return random.choice(state_properties())
28
29
30 def get_card_description(item):
31     """Return the description shown on card in Alexa response."""
32     text = "State Name: {}\n".format(item['state'])
33     text += "State Capital: {}\n".format(item['capital'])
34     text += "Statehood Year: {}\n".format(item['statehood_year'])
35     text += "Statehood Order: {}\n".format(item['statehood_order'])
36     text += "Abbreviation: {}\n".format(item['abbreviation'])
37     return text
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Project

python-indian-states-quiz-game

.git

lambda

alexa

__init__.py

data.py

util.py

lambda_function.py

requirements.txt

skill-package

.gitignore

ask-resources.json

README.md

data.py

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-*- coding: utf-8 -*-

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lambda\alexa\data.py 1:1

Bibliography

The matter contained in this project has been taken from the given links:-


- * <https://developer.amazon.com/en-IN/alexa>
- * <https://developer.amazon.com/en-US/docs/alexa/alexa-skills-kit-sdk-for-python/overview.html>
- * <https://developer.amazon.com/en-US/alexa/alexa-skills-kit/start>

Production

<https://www.amazon.com/gp/product/B08MKWRR1N>

[Alexa Skills](#) [For Your Smart Home](#) [Games and Trivia](#) [Education](#) [Your Skills](#) [Getting Started](#) [Help](#)

Alexa Skills > Games & Trivia > Knowledge & Trivia



Indian States Quiz

by Suraj Mani

☆☆☆☆☆ 0

Free to Enable

"Alexa, open Indian States Quiz"





"Alexa, play Indian States Quiz"

"Alexa, launch Indian States Quiz"

Get this Skill

Sign In

By enabling, this skill can be accessed on all your available Alexa devices.


Description

Test your knowledge of the Indian states and their capitals.

States Quiz provides a fun way to keep your Indian geography skills sharp.

To start, just say "Alexa, launch Indian States Quiz" or "Alexa, open Indian States Quiz" to start the game".

At any time, you can stop the game by saying "Alexa, stop"

 alexa developer console

[Your Skills](#) [Indian States Quiz](#) [Build](#) [Code](#)

Skill testing is enabled in:


Live

[Alexa Simulator](#) [Manual JSON](#) [Voice & Tone](#)

English (US)


Type or click and hold the mic

start indian states quiz




Welcome to the Indian States Quiz Game! You can ask me about any of the twenty eight states and their capitals, or you can ask me to start a quiz. What would you like to do?

start quiz



OK. I will ask you 10 questions about the Indian States. Here is your 1st question. What is the abbreviation of Karnataka.

k. r.



Bummer !The abbreviation of Karnataka is KA. Your current score is 0 out of 1. Here is your 2nd question. What is the capital of Bihar.

A dark, blurry night photograph of a city street. In the background, there are several out-of-focus lights, including a prominent blue light on the left and a cluster of colorful lights (red, yellow, blue) on the right. A sign with some text is visible in the background, but it is too blurry to read. The overall scene is dark and atmospheric.

THANK
YOU