

FLIGHT TRIP PLANNER



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INTRODUCTION

Flight Trip Planning is essentially planning, mapping out and understanding all of the criteria, materials and routes of a flight that you are undertaking. It is vital that all flights are deemed to have a well-structured and organized flight plan, which will not only maximize the safety of those on board but also reduce costs where necessary.

The aim of flight planning is to create a recipe for the safest flight on a specific day and for a particular aircraft. As circumstances are never the same for any flight, the calculations must always be tailored to the flight in question.

It would be an understatement to say that technology is pertaining in this world. It is dominating the world. From scheduling an alarm to communicating with long-distance loved ones, people rely on technology.

The development of computer technology has been extremely significant with regards to flight planning.

Alexa Skill

Alexa is Amazon's cloud-based voice service available on hundreds of millions of devices from Amazon and third-party device manufacturers. With Alexa, you can create natural language experiences that make it more intuitive for your customers to interact with the technologies they use every day.

Flight trip planner is one such Alexa skill that. It lets you access and share information about upcoming trips with just your voice. The new integration also makes it easy to discover places to go within your budget and search for flights.

Once you get it set up, you'll be able to use voice prompts like: "Alexa, ask flight trip planner to track a flight," "Alexa, ask flight trip planner where I can go for \$300," or "Alexa, ask flight trip planner to search for Please check whether any flights are available from new york to seattle."

SCOPE

Currently, we are using data stored in JSON files to display flight details for origin and destination cities, but in the future we will use external APIs to make this feature more efficient. In near future 'flight travel planner' will not only plan flights, but also daily activities and accommodation.

Another feature that will be integrated is of GPS-based location services. Users can use tracking services to set their current location and get the closest results instantly. At certain locations, the skill will provide details of hotels, coffee shops, or nearby local attractions.

INSPIRATION

COVID19 has killed all the fun we can have in traveling and visiting places. When we ask, "Alexa, what's the best attraction in Dubai?" it gives very limited options. It wasn't even able to confirm the weather in the month of travel, the type of activity, or how long it would take to visit each location. we needed some kind of skill to help us create an itinerary for a trip to Dubai, taking into account all the parameters. And when we can do all of this with just a voice command, and have the final plan emailed to you with a voice command.

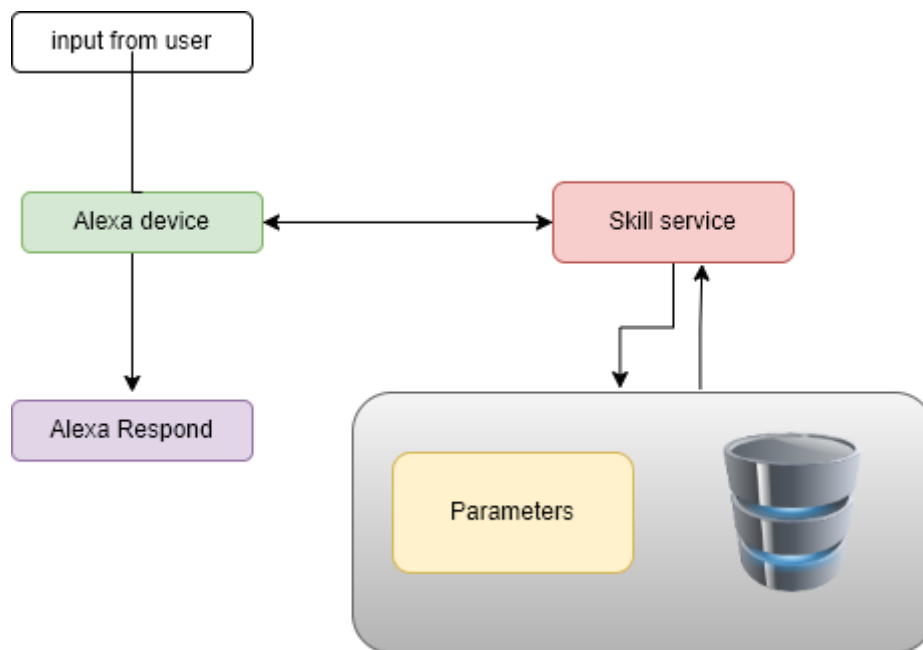
DELIVERABLES

- Research already existing Flight trip planner skills & find out features that may not be present in these skills.
- Create a VUI in AWS Lambda which can provide users with desired trip details according to the user input.
- Provide users with cheapest flight details according to their destination to make the trip budget friendly.
- It takes user input parameters (amount , num of days etc) and provide them with the best deal.

OBJECTIVE

- Providing users with flight trip details
- Planning trip based on number of days
- Suggestion to add any other tourist town located nearby.
- Planning trip according to user budget
- Find the ideal flight trip for the best price

WORKFLOW



TECHNICAL REQUIREMENTS

- Basic knowledge of Node.JS
- Basic knowledge of AWS Lambda and S3 Storage
- Knowledge about different audio hosting methods
- Alexa App/Emulator for testing
- Basic knowledge of Importing GitHub Repositories

TRACEABILITY MATRIX

Req ID	Req Description	TC ID	Test Data	Expected Result	TC Status
R1	Launch Intent – Invoke Launch Intent	TC1	Ask flight trip planner hello	<Short Message>	Passed
R2	SearchCheapestFlightIntent	TC2	Ask flight trip planner, I'd like to fly out of new york to chicago	<Short Message>	Passed
R3	WhereToGoVacationIntent	TC3	Ask flight trip planner, Plan a flight trip to chicago from san francisco	<Short Message>	Passed