

In this slides

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Have you ever been



HAVING TROUBLE FINDING RESTAURANT



FEELING DIFFICULT TO MAKE DECISION WHILE LOOKING AT APPS LIKE YELP



WAITING A LONG TIME BEFORE SEATED

Introducing

Your new best food companion

I-Min

work with



What is I-Min

A simple restaurant recommendation program that is available on Amazon Alexa

Allows you to ask:

Recommend me some restaurants

Not that busy now, and cheap

Nice, that is!

Please tell me your preference

I found xxx, it is xxx min walk away and opens until xx

Information of xxx is sent to your phone, enjoy!







Easy setup



Your favorite restaurant included



Just Talk, No hands needed

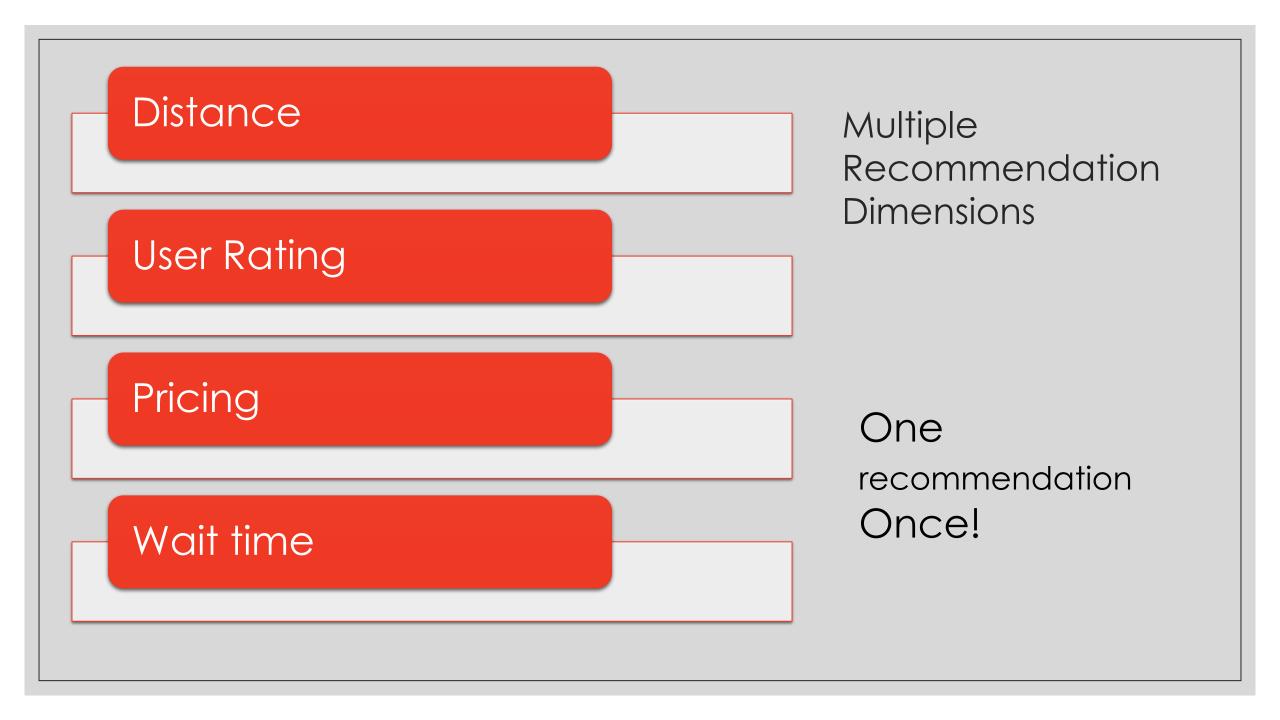
BASIC FEATURE

Ask Alexa for restaurants

Tell Alexa your preferences

Get result pushed on your phone when you decide.

Ready and go to your meal!



How I-Min works

Initialize the I-Min

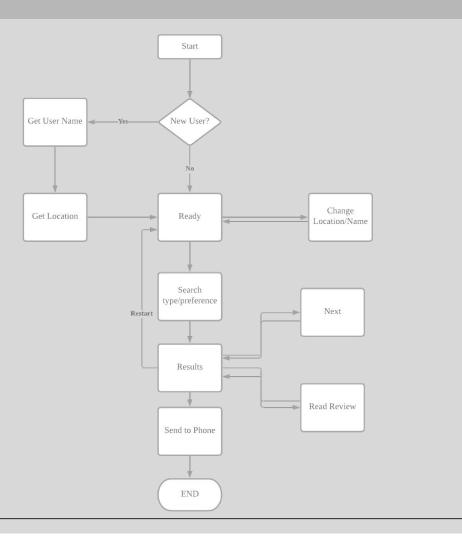
- user name
- user location

Ask Alexa Place

• give preference

Alexa return results

User get the result



Data comes from:

We used Google Places API and crawled data from Google Maps



text search

popularity search

Get restaurants in an area based on text string

Get popular times of a restaurant by giving its ID

"Restaurants nearby GWU"

"populartimes.get_id(ID)

Place_ID Name Address Rating	Туре	Reviews Number	Location
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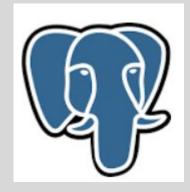
Database

We used the psycopg2 module in Python to connect to the PostgreSQL database server

Restaurants Database

Popularity Database

User Database



id [PK] character varying (64)	name character varying (1024)	add character varying (1024)	rating numeric	type character varying (64)	user_rating_total numeric	geo point	g.
ChIJF4K_7C3t4kRoBH7F6Rmhfw	Chick-fil-A	House, 2121 H St NW, Washington, DC 20052, United States	4.	2 restaurant	308	(38.8999687,-77.0477212)	
ChIJFRJOJLG3t4kREE0975QY56U	North Italia	2112 Pennsylvania Avenue NW Ste 102, Washington, DC 20037, United States	4.	5 meal_takeaway	515	(38.9014337,-77.04790109999999)	
ChIJORGRA7q3t4kR06sb2H_6F2U	Beefsteak	800 22nd St NW, Washington, DC 20052, United States	4.	4 restaurant	373	(38.9000875,-77.0493087999999)	
ChIJTVWCErG3t4kRruUKAzYsfrI	CIRCA at Foggy Bottom	2221 St NW, Washington, DC 20037, United States	4.	4 bar	1403	(38.9009723,-77.04983519999999)	
ChIJUQaFSLa3t4kRO_q7n0P53jk	The Visiteur	1221 22nd St NW, Washington, DC 20037, United States	4.	7 restaurant	7	(38.9061249,-77.0484425)	
ChIJV6E7A4u3t4kR_5p2Jx0dvTs	Astoria DC	1521 17th St NW, Washington, DC 20036, United States	4.	5 restaurant	221	(38.9105225,-77.03827190000001)	
ChlJWaq-G663t4kRWK0qyPE7w	&pizza - Hotel Hive	2224 F St NW, Washington, DC 20037, United States	4.	6 restaurant	1020	(38.8971548,-77.0496323)	
ChlJWw5sWOy3t4kRS_y4nfMHkwY	Flower Child	2112 Pennsylvania Avenue NW, Washington, DC 20037, United States	4.	4 restaurant	219	(38.9014337,-77.04790109999999)	

Conclusion & Future Work

- We got data from Google Maps, built few databases. and then built an Alexa skill to realize restaurant recommendations.
- In future
 - expand our database
 - add more preferences and conditions to filter the results
 - o combine the navigation to the recommended places

