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OUR CLIENT

DecisionTree

About the Company

- ▶ Small sized start up company located in Vancouver
- ▶ "Make great decisions"
- ▶ Gathers feedback from your team, customers or community
- ▶ Organizes the results into data that you can use

- ▶ Kris Constable *(CEO)*

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OUR PROJECT

- ▸ To create a voice app version of Decision Tree using Google Home

- ▸ Use voice to:

  1. Make a decision.

  2. Make choices for the decision.

  3. Share decision with your team.

  4. Team responds to the choices. *

  5. Show results. *

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OUR PROJECT - WHY?

- ▸ To use in a business meeting for easy and fast decision making

- ▸ Any non-technical professionals would be able to use it too
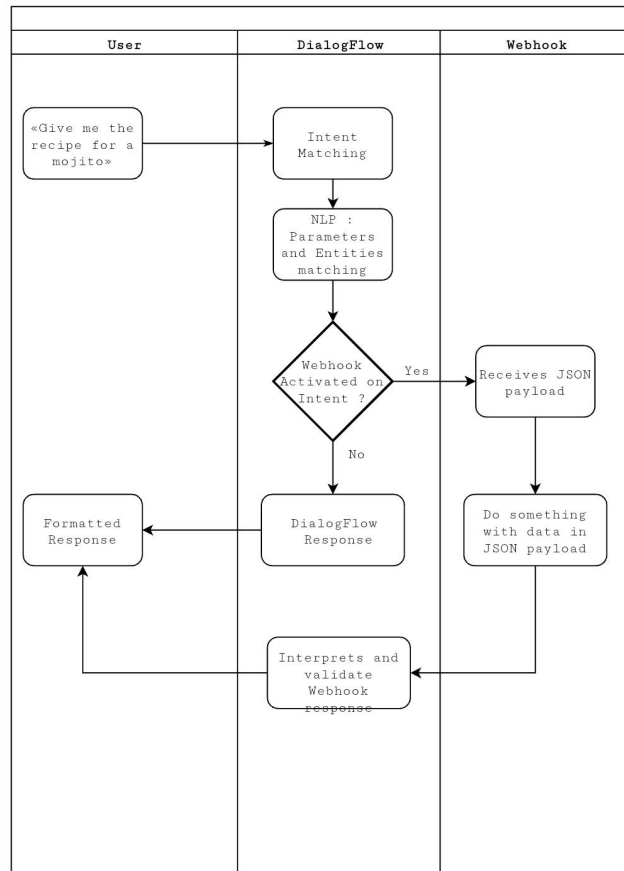
- ▸ New market in voice technology

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RESTful API
GET PUT POST DELETE

POSTMAN

node
JS

Dialogflow

Google Cloud Platform

Meet your Google Assistant

Technologies used

Incoming Request

User	DialogFlow	Webhook

«Give me the recipe for a mojito» → Intent Matching

↓

NLP : Parameters and Entities matching

↓

Webhook Activated on Intent ? —Yes→ Receives JSON payload

No ↓   ↓

Formatted Response ← DialogFlow Response   Do something with data in JSON payload

↑

Interprets and validate Webhook response ←

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DEMO

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Challenges

Technological

▸ Dialogflow resources online are limited

▸ Learning curve for Google Home and API

▸ API Doc - "not authorized" outputs and lack of information

▸ API only works by ID calls

▹ Cannot GET IDs - decision ID, choice ID

▹ Have to hardcode IDs in our code

▸ Can only test on simulator

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What would we have done differently?

- ▶ More face-to-face meetings with client
  - ▷ Learning curve
  - ▷ Reduce scope
    - ■ API issues

- ▶ Make decisions for the client

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Estimates and Actuals

	ROM	Estimate	Actual	Variance (hours)	Variance (%)
Project Management		**66**	**56**	**10**	**117.8571429**
Meetings		52	39	13	133.3333333
Other communication		0	0	0	#DIV/0!
Documentation		14	17	-3	82.35294118
Development		**160**	**168.5**	**-8.5**	**94.95548961**
Researched postman, do google home (three doors) tutorial		3	4		
Build Your First App with Dialogflow tutorial		2	3		
Researched Postman and connected with tokens		2	2		
Research how to use dialogflow and webhook		1	2		
Testing		**144**	**140**	**4**	**102.8571429**
Use token on Postman to connect to API and tried get /post method		1	1		
Set up test project on dialogflow, troubleshoot with errors on nodejs		1	4		
Integration & Deployment		**69**	**68**	**1**	**101.4705882**
Trying to implement sharing by hardcoding continued		3	3		
implement project on Google Home, android device		2	2		
Implement sharing function (hardcode) on dialogflow		3	3		
Modify agent on dialogflow and deploy cloud functions		4	4		
Modify agents on dialogflow		4	4		
Implement agents to Google Home		4	4		
Sharing decision through Google Home		4	4		
Creating options through Google Home		8	5		

Total Actual Hours:
```
     56
  168.50
+ 140
     68
-------------
  432.50
```

Thank you!

Any questions?