Dog Matcher



Outline

Goal

Build a interactive system that helps user find the most suitable dog breed based on user's life habits



- State tracking
- Coreference resolution
- Complex information presentation
- Multi-initiative



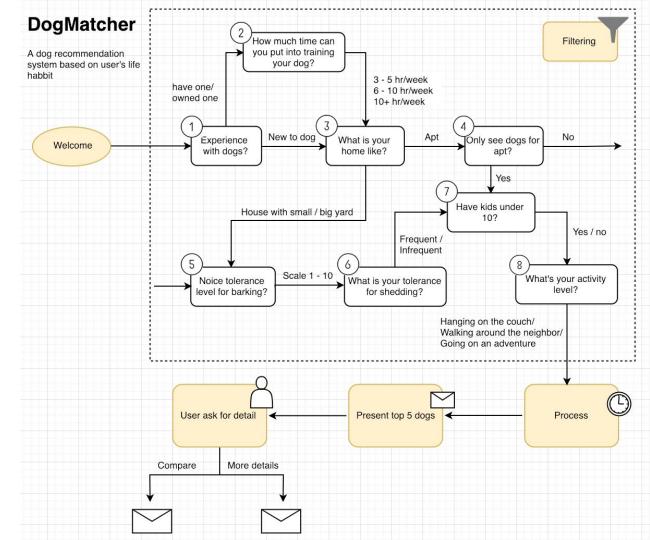
Framework



Chatting filtering presenting

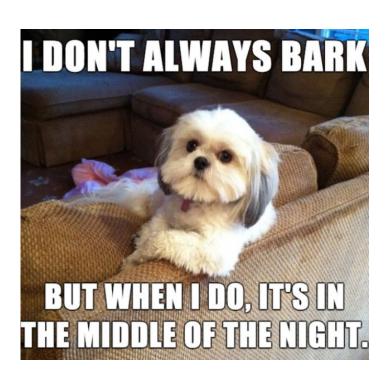
User chats with Dog Matcher about his/her lifestyle. During the process, user can ask for clarification at any time Backend obtains user's requirements and search through the database to find the best match(es) Matches are presented on Alexa app, user can ask for more information for a particular breed, or compare two of them

Flowchart



Demo

Want a quiet dog? Let's find your perfect match!

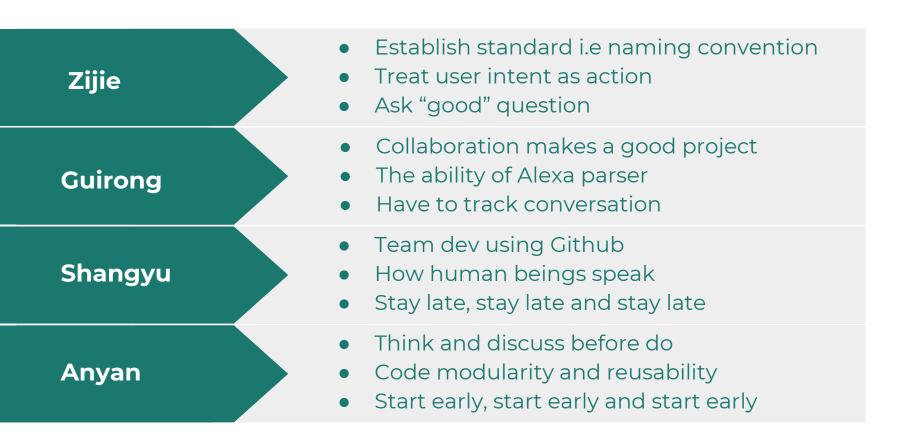


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What we did

Zijie	Shangyu	Guirong	Anyan
Setup VPS & Web Server. Backend Main Logic Design & Implementation. Alexa Skills.	Web Crawler Create Database Alexa Visualization Question Generation Response Generation	Alexa Skills Multi-initiative Response Generation NP pronoun resolution	Alexa Skills Project Logic Design Database Filter Result Generation Response Generation

What we learned



Future work

		Realization	Improvement
1	State tracking	/	Distribution over possible statesMore robust error handling
2	Text generation	/	Add more logicsImprove vocabulary
3	Multi-initiative	/	Ask more type of question
4	Pronoun resolution	/	 More "human" pronoun: last one, first two, etc

- Error handling
- Add complexity to the system
- More vivid display such as pictures
- More user driven

