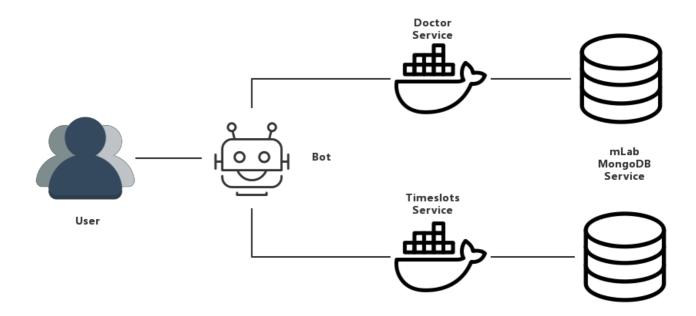
Assignment 1: Building a Chatbot using Microservices as Back-end

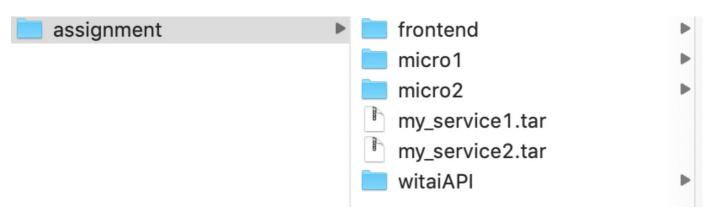
Yuyou Xu z5143390



The dentist and Timeslot services are deployed in two docker container as microservices and the Bot communicates with them through REST API calls. The data is stored in two different MongoDB databases with required doctor and timeslots information.

For deployment:

1. Go to assignment folder and load the docker images:



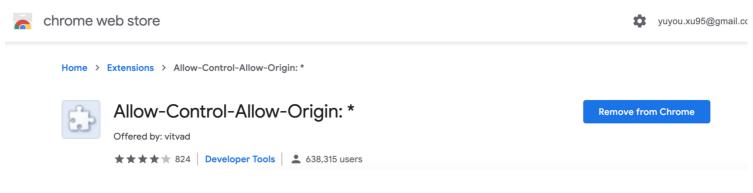
→ assignment docker load --input my_service1.tar
 Loaded image: my_service1:latest
 → assignment docker run -p 5002:5000 -t my_service1
 * Serving Flask app "__init__" (lazy loading)
 * Environment: production

docker load --input my_service1.tar docker run -p 5002:5000 -t my_service1

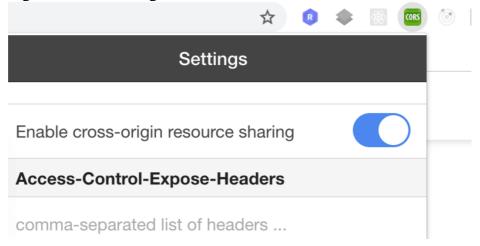
- → assignment docker load --input my_service2.tar Loaded image: my_service2:latest
- → assignment docker run -p 5001:5000 -t my_service2
 - * Serving Flask app "__init__" (lazy loading)
 - * Environment: production docker load --input my_service2.tar docker run -p 5001:5000 -t my_service2
 - 2. Go to witaiAPI folder and run the bot service:
- → witaiAPI cd app/demo
 → demo ls
 __init__.py static v1
 → demo python3 __init__.py
 * Serving Flask app "__init__" (lazy loading)
 * Environment: production
 __python3__init__.py
 - 3. Run the front-end (React.js):
- → assignment cd frontend
- → frontend git:(master) x npm start

npm install (Install all the dependencies.) npm start

4. Install chrome plugins to avoid CORS policy

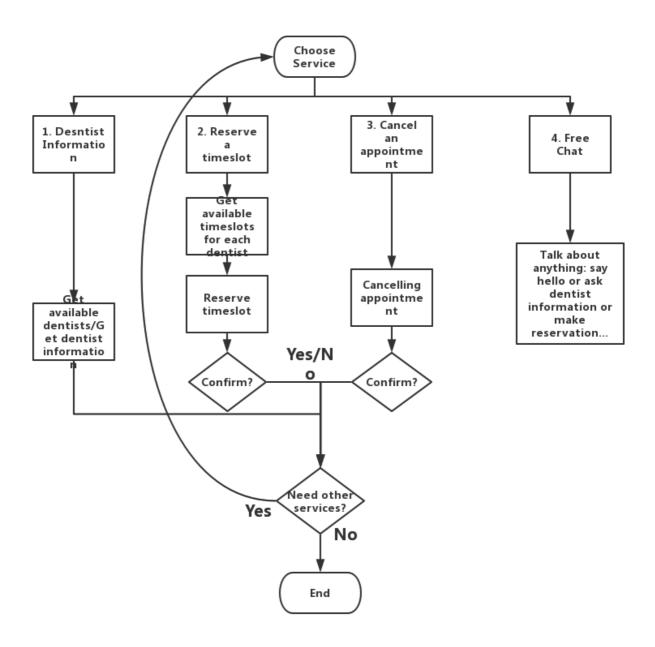


Enable cross-origin resource sharing:



Then the bot service is online and can respond correctly.

Here's the logic for the chatbot:



Since the bot service is based on wit.ai, usually user need to type sentences to chat with it (e.g. "when is Dr.Feng available?")

Demo of the chatbot:

