

LawIT

An Online Legal Assistant

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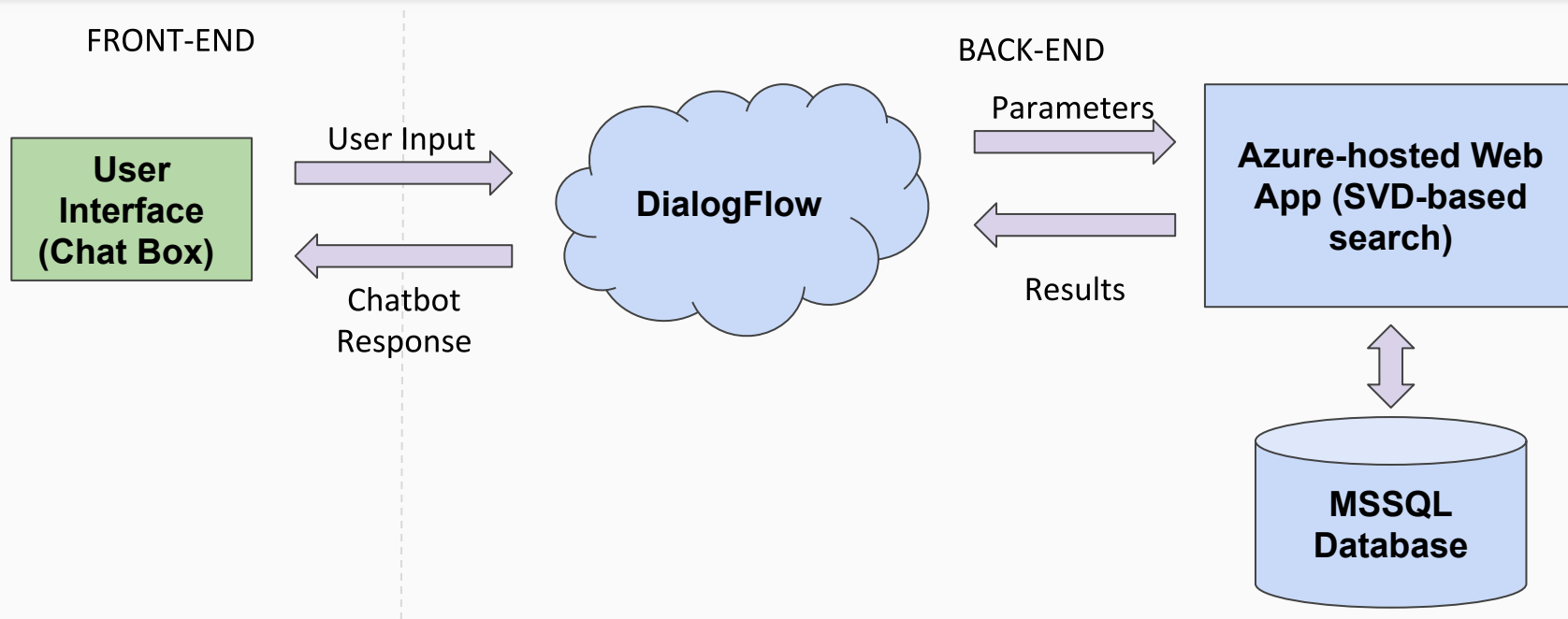
Project Description

Lawit is a **web-based chatbot service** that acts as a **free online legal consultant**. The chatbot prompts users for information via questions designed to identify the **relevant legal text for the user's inquiry**, and uses the input to give the users the ability to select the relevant record. By asking questions that help focus on the actors, situation and circumstances, the chatbot aims to find the most relevant record/s to assist the user.

Customers / Clients

- Lawit was designed to help anyone that ...
 - ...want to check if they've violated any laws
 - ...want to check if they are the victim of a crime
 - ...want to check the legality of a certain deed in a given jurisdiction
 - ... want to know whether or not their rights are being infringed upon

System Architecture



System Design

- Front End - Javascript-based chatbot
- Backend - Dialogflow with C#-based webhook
 - Dialogflow handles input and responding to the user
 - SVD-based search algorithm using TF*IDF
- Database - MSSQL Database
 - Contains documents, terms, and the SVD matrix
- Tools - Dialogflow, Azure Web Applications, AzureDB

Challenges

1. Learning the technologies needed
 - a. Dialogflow intents and entities
 - b. Cloud-based web application deployment
2. Refining search methods
3. Time constraints

Demo

<https://lawitwebsite.z13.web.core.windows.net/>

<https://swe.umbc.edu/~sam34/lawit/>

References

- 1) <https://law.justia.com>
- 2) <https://chatbotslife.com/dialogflow-fulfillment-dynamic-responses-from-google-firestore-20acd19146ee>
- 3) <https://medium.com/voice-tech-podcast/create-a-c-netcore-webhook-for-a-dialogflow-chatbot-e22d53c40d64>
- 4) <https://lucenenet.apache.org>
- 5) www.tfidf.com

Questions ?

Thank You!