

VOICE TO MESSAGE & MESSAGE TO INFORMATION



What is our project?

- ▣ Android application
- ▣ Transform voice to message then to information

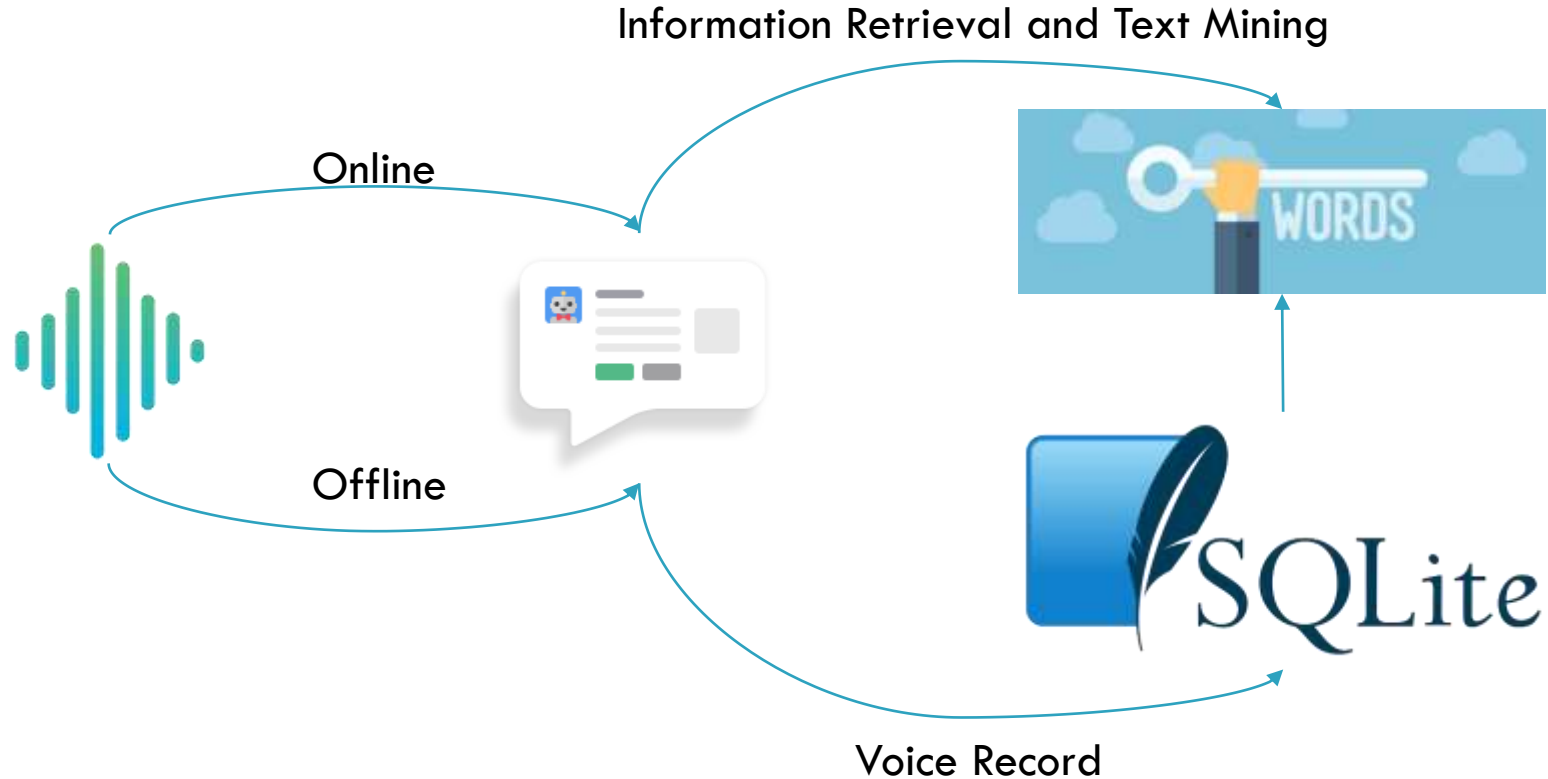


Tools

- Java
- Android
- Google APIs
- TF-IDF
- NLP
- Sqlite



Function Logic



Front end



Back end

TF-IDF

TF-IDF is a measure of originality of a word by comparing the number of times a word appears in a doc with the number of docs the word appears in.

$$\text{TF-IDF} = \text{TF}(t, d) \times \text{IDF}(t)$$

Term frequency

Number of times term t appears in a doc, d

Inverse document frequency

$\log \frac{1 + n}{1 + \text{df}(d, t)}$

n ← # of documents

Document frequency of the term t



Challenges

- ❑ Algorithm Implementation
- ❑ Database Management in Android
- ❑ Android Application Development



Benefits


BENEFITS



- ❑ Capable for Working both Offline and Online
- ❑ Hands Free
- ❑ Simplified Processing to Achieve More Secure
- ❑ Compatible with latest Android

What's next?

- ❑ Improve Accuracy
- ❑ Improve UI
- ❑ Dialect Recognition
- ❑ Better Message Preprocessing Method
- ❑ Better Information Retrieval and Text Mining Method



Q & A



Thank You