VIRTUSA SRE HACKATHON COMPETITION 2021 TEAM TREX

TEAM MEMBERS

- DULMIN KANNANGRA
- THEEKSHANA HARISCHANDRA
- ABISHEK DANANJAYA
- PASINDU RAVEEN
- KUSHADA CHAMIDIKA

HACKATHON CHALLENGE

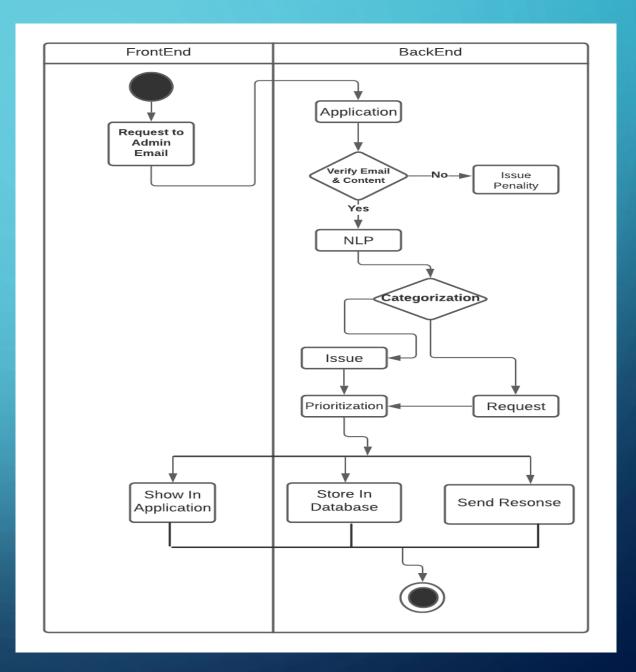
Email based incident tracking

Automate the process of email based incident tracking.

Problem

- A support team working on customer issues & requests to provide solutions.
- Most of the time customer contact the support team via emails.
- Customer expecting to have proactive follow-up on their complains and requests.
- The company committed for certain SLA on handling customer requests.
- If the SLA violated the company subjected to penalty.
- It is the responsibility of team leads to prevent the SLA violations.
- Currently each team leads have to go through individual mail box and consolidate reports on customer queries.
- This is very resource intense task, and frequently it leads to human errors.

UML DIAGRAM



Main Programming Language

(1) Java

Framework we used

(1) Spring Boot

Technologies we used

- (1) javax.mail
- (2) NLP (Natural Language Processing)

Database we used

(1) Firebase

Why Select JAVAX.MAILS

We choose javax.mail to receive emails. But in the beginning we had decided to use Google's Gmail API to receive emails, but we had to face some difficulties, and time is limited, so due to that resonance, we chose javax.mail to save emails.

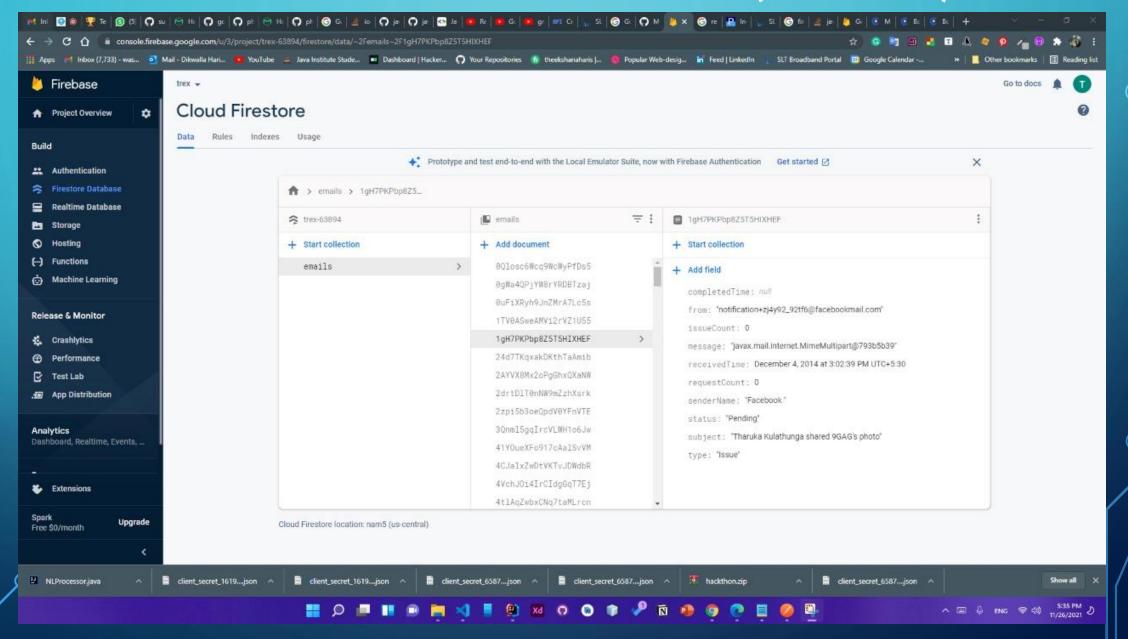
Why Select NLP (Natural Language Processing)

we selected NLP because we had to categorize an email to request or issue

Why Select Firebase as Database

We can update the database in real time easily with the Firebase database. So we use this database as our database.

STRUCTURE OF THE DATA MODEL (FIREBASE)



FRONTEND DESIGN

