A QUESTION-ANSWERING SYSTEM ABOUT COVID

FIT3162 Computer Science Code Demostration

Presented by: MCS15
Group Members: Chan Wai Han, Nawwaf Ali, Ooi Yi Sen, Yeonsoo Kim

CONTENTS

- How it is designed, overall architecture
- Software, Platform and Modules
- Main input and output
- Major requirements that were satisfied
- Limitations of our software
- Other relevant information

Our team

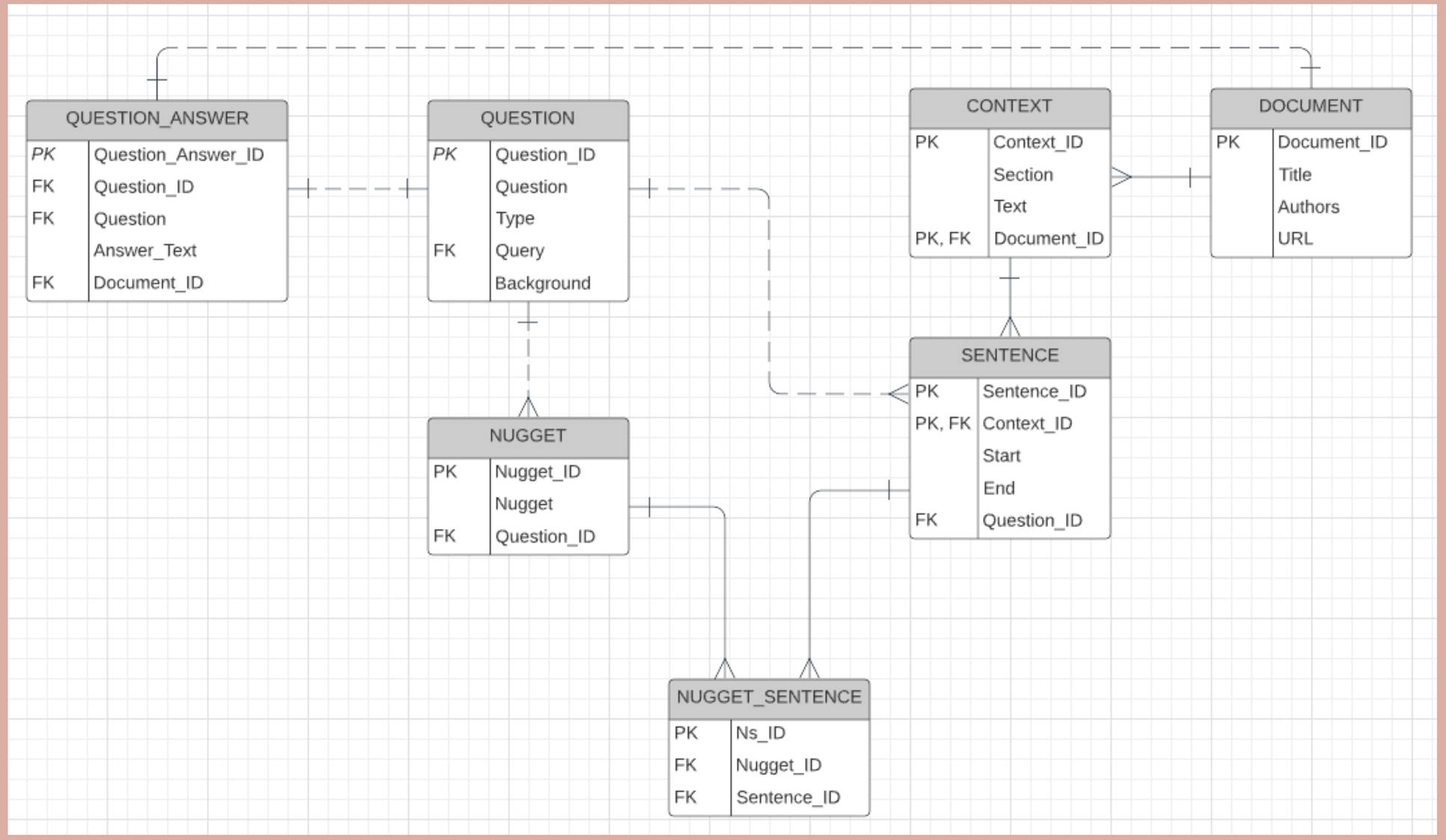
- Ooi Yi Sen: Project Manager
- Chan Wai Han: Technical Leads
- Nawwaf Ali: Quality Assurance
- Yeonsoo Kim: Quality Assurance

How it is designed, the overall architecture

Front End

How it is designed, the overall architecture

Back End



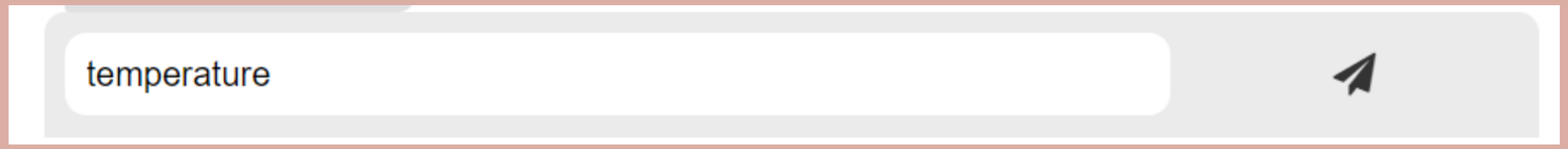
Software, Platform and Modules

Software:
Visual Studio Code
Azure Data Studio

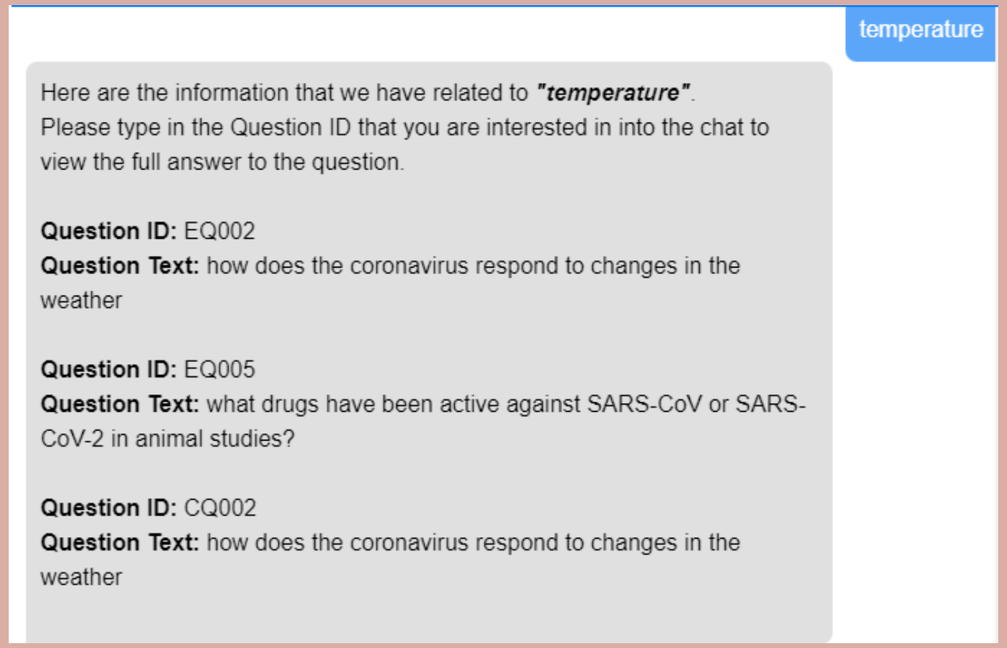
Platform:
Windows OS

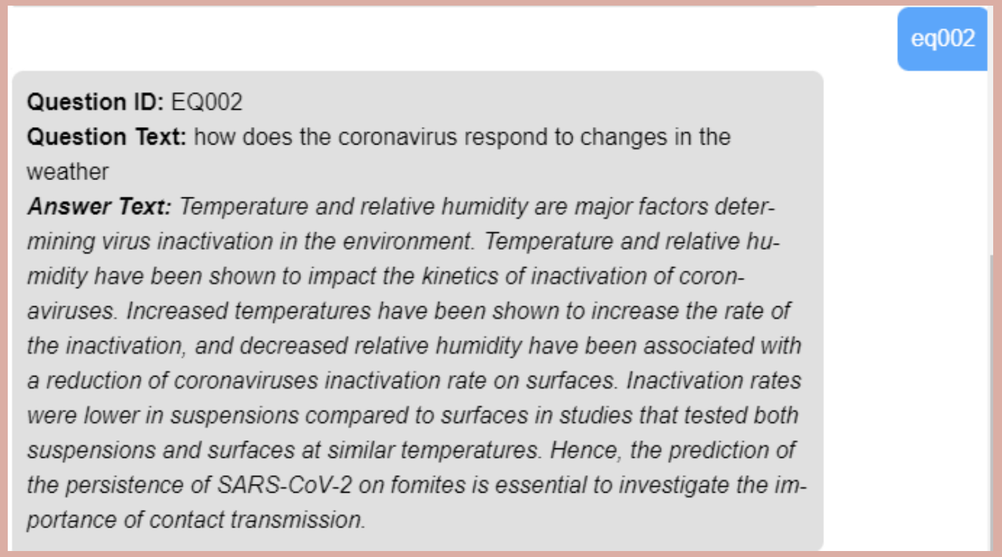
Main input and output (QnA)

Input:



Output:





Main input and output (Repository)

Input: user query

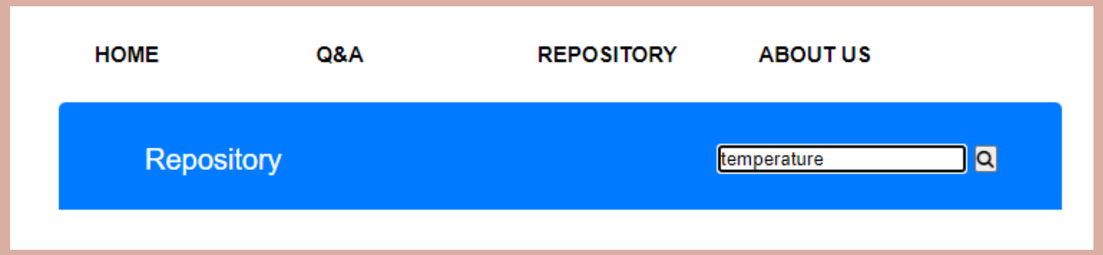
- eg: temperature

Output:

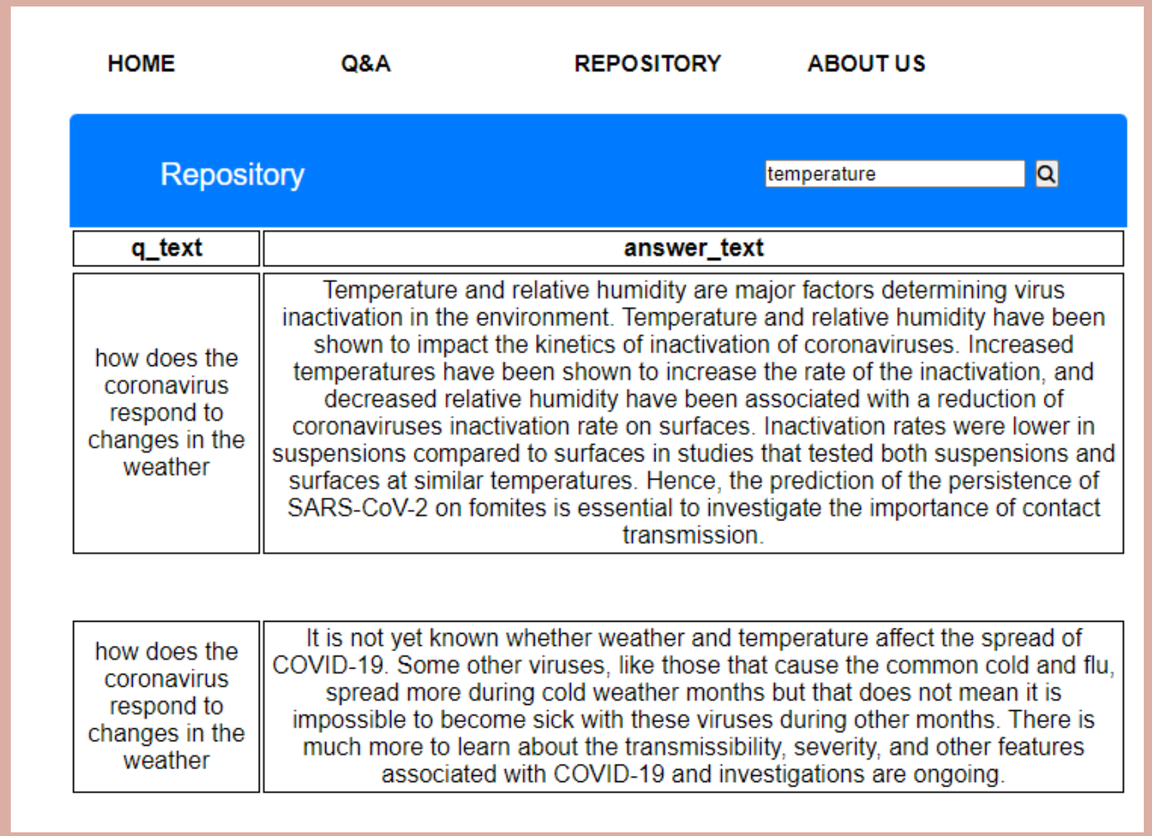
- q_txt: Question text
- answer_text: Answer to the user query

Main input and output (Repository)

Input:



Output:



q_text	answer_text
how does the coronavirus respond to changes in the weather	Temperature and relative humidity are major factors determining virus inactivation in the environment. Temperature and relative humidity have been shown to impact the kinetics of inactivation of coronaviruses. Increased temperatures have been shown to increase the rate of the inactivation, and decreased relative humidity have been associated with a reduction of coronaviruses inactivation rate on surfaces. Inactivation rates were lower in suspensions compared to surfaces in studies that tested both suspensions and surfaces at similar temperatures. Hence, the prediction of the persistence of SARS-CoV-2 on fomites is essential to investigate the importance of contact transmission.
how does the coronavirus respond to changes in the weather	It is not yet known whether weather and temperature affect the spread of COVID-19. Some other viruses, like those that cause the common cold and flu, spread more during cold weather months but that does not mean it is impossible to become sick with these viruses during other months. There is much more to learn about the transmissibility, severity, and other features associated with COVID-19 and investigations are ongoing.

Major requirements that were satisfied

- Access to the latest information about Covid. Users must be able to search for information about Covid, read the user guide on how to use our system, and see how to apply some of the information in real life

- Access to a repository where our user can perform self-browsing

- Access to reliable databases. So that our system can provide accurate information to our users

- Access to technical tools, languages, and software for our project.

Limitations of our software

- Users should try to query for keywords only
- Limited datasets
- Not all questions can be answered

Other relevant information

- Changed our coding language from Python to Javascript
- Changed our Database software from Microsoft SQL Server to Microsoft Azure SQL
- Changed the database structure

THANK YOU