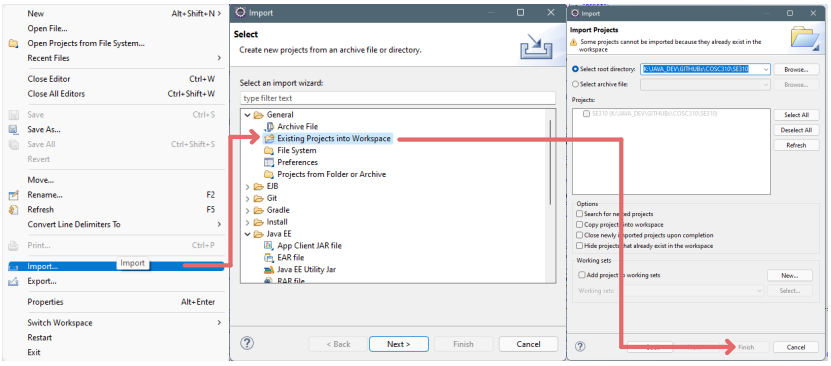
COSC310 Individual Project

Haoxiang Xu

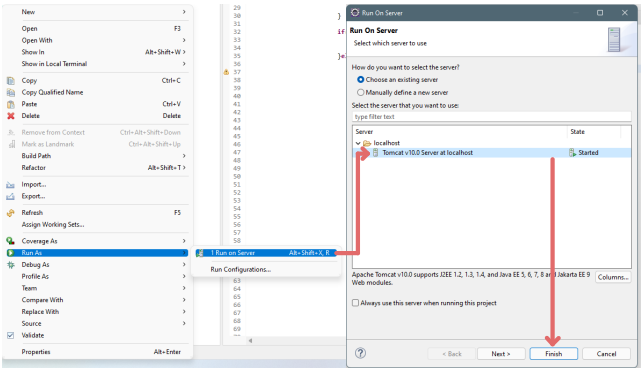
GitHub Repository
https://github.com/bananamilkt/SE310.git

About How to run this code

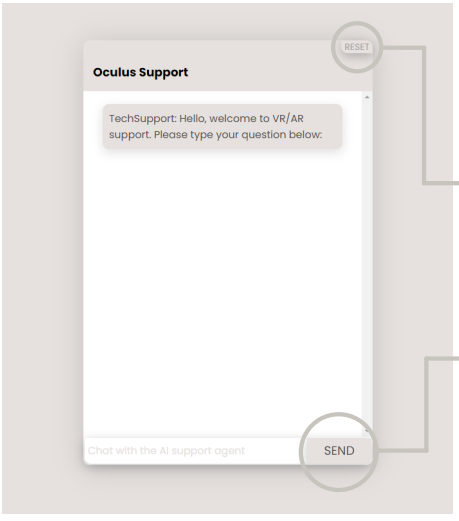
- Pull repository from commit ID: https://github.com/bananamilkt/SE310.git
- Download models file from https://1drv.ms/u/s!AidBCfmtc0EDhtZiCroSVeDgESCegg?e=hZWT4m OR search for CoreNLP and download it
- Put standford-corenlp-4.4.0-models.jar into SE310\src\main\webapp\WEB-INF\lib
- Import as Dynamic Java web project in Eclipse Java EE



- Apache Tomcat server required https://tomcat.apache.org/download-90.cgi and import to Eclipse EE
- Run index.jsp on Tomcat Server (right click project name in Package Explorer)



About the New GUI



After successfully run the code go to localhost: LOCAL_HOST_NUMBER (normally 8080)/SE310/index.jsp on your web browser

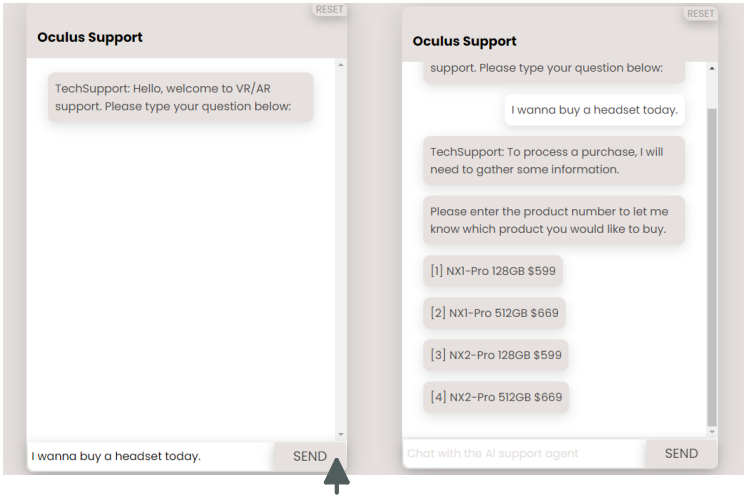
RESET button - empty the chat box and restart the system

SEND button - send message to Oculus chat bot

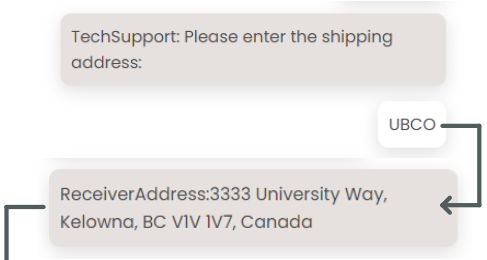
About Implemented API

Googlo Geocoding API implementation

Since our Chatbot system is basically playing as a website technical support, So I first thought of is using PayPal API to achieve the purchase function, and in the process of achieving the purchase function, I think the use of geocoding API to accurately locate the shipping address provided by the user will greatly reduce the probability of error in the address input.
So here is how Geocoding works in the program.



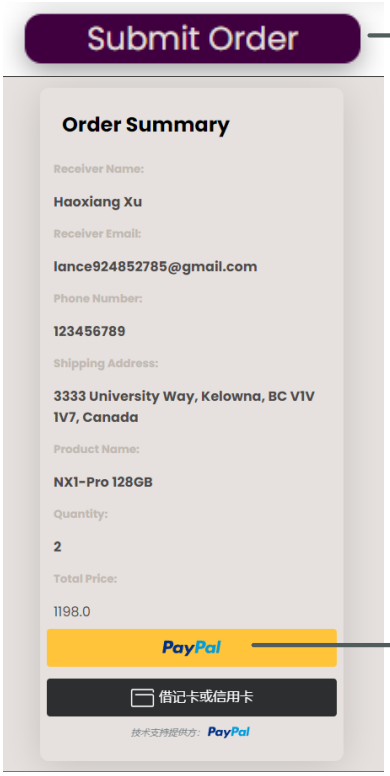
After the user enter “I wanna buy a headset today”, the chatbot will ask some user information include the shipping address, Now if user didn’t enter the full address, Google geocoding will still auto-complete the full address information and store them more detail into the database.



Following is how Order information be saved into the database. Notice that shipping address has further extended after stored into the database.

PayPal API implementation

PayPal is simply implemented by using Javascript to achieve the purchase function. After you send all required payment information to the chatbot. It will collect all that information into the system and send you a SUBMIT ORDER button in the chat. When user click on that button, user will be transferred to the payment page.



And now if you click on the PayPal button, it will automatically transfer you to the PayPal App for making the Payment.

Google Map Javascript Implementation

google maps enables chatbot to give users the closest best buy store when they ask for the nearest retail location