Hello everyone, my name is Shaohua Jiang. In this video, I will give you a brief description about what our chatbot is based on, what it does, and the features based on the APIs I have implemented ~~that would enhance the functionality of our bot~~.

(~~The chatbot that we have decided to implement for our project is an otaku chatbot~~.) Our chatbot can tell the users about popular anime in a specific genre (4). It can also talk about popular mangas (13), manhwas (20), anime conventions (23), Japanese culture and otaku culture (22) in general.

For this individual project I have decided to implement 2 features: Flickr API and Wikipedia API.

1. Flickr API is used in our "charbot.py" file to search images from Flickr.com and add them to the conversations ~~when users ask general questions or questions that our chatbot cannot understand~~. Let’s see this example (Turn 21): when I asked for general information of Manhwa, the chatbot showed the image under the text respond. As to the text respond, let’s move to the next API: Wikipedia API
2. Wikipedia API is used to initiate online searches on Wikipedia in real time. As an improvement, I added a new package ~~to the original API implementation~~: "wikipediaapi" and made use of several unique functionalities within this package. ~~More information is given in the README file under the “New Features and APIs Added” subtitle.~~ ~~Let’s see a brief example.~~ For the same image I showed just now, we can see that right above the image, there is a paragraph from a Wikipedia page. This is the outcome of implementing this API.

That’s all for this project. Thank you for your time.

1. (Pos tagging: The Pos tagging feature allows the chatbot to recognize and label different parts of speech as nouns, pronouns adjectives etc. We made use of POS tagging to recognize proper nouns, so that if there is a question in a particular topic that the user asks the bot about, and the bot doesn’t know the answer to it than the bot can retrieve the information from Wikipedia and give it to the user. We have also used POS tagging in conjunction with sentiment analysis to judge the different emotions of the user more accuratelty. Since sentiment analysis in itself is not always accurate, so we had to use POS to make our bot more precise with its judgements.)
2. (Sentiment analysis: This tool aids the bot in recognizing the emotions of the user by analysing the “tone” in which the user asks the questions. Analysing how the user is feeling also allows the bot to respond in that manner, therefore giving it a more human touch. Here is an example of the sentiment analysis in action)
3. (The next feature we implemented is the ability to view the recent conversations that the user had with the chatbot. This feature could be particularly useful if the user wishes to view his most recent conversation with the bot, so he does not have to necessarily ask the bot the same questions again. Here is how the recent chatlog looks☺
4. (The final feature that we have implemented for this project is the synonym recognition. This feature allows the bot to respond to questions with better accuracy.)