# System overview:

This chatbot is based on the movie Llamageddon, directed by Howie Dewin. To start this chatbot store a user’s information by pickling a UserPerson object which contains a user’s name, derived likes and dislikes, the chatbot’s affinity score, what ratings and trivia has been shown to the user, whether they have seen the movie or received a content warning, and finally the user’s opinion on the movie. When a user first runs the chatbot, it asks the user their name and either creates an object for them and adds them to the ***users.txt***file (stores all the current users) or opens a previously created file and retrieves the object corresponding to the current user. There are a couple things that a user can do within the chatbot. It can handle a user sending messages talking about the movie and will output correlating responses, can show a user trivia about the movie (each fact can only be shown once), can request the ratings from the movie, and can give their own opinions on the movie that will be stored for later use. The ratings were scraped from IMDB using ***Rating\_Crawler.py***.

When a user uses the chatbot for the first time, the chatbot will attempt to show the user a synopsis and give a content warning to the user, which can be denied if the user does not want any possible spoilers, unless the user says that they have already seen the movie. If they have seen the movie, it will ask how they feel about the movie. All input given from users uses SentimentIntensityAnalyzer imported from nltk.sentiment to determine if the user is speaking positively to the chatbot. If a user gives a bad rating to the chatbot or is generally negative towards the chatbot (this includes using profane language) the user’s score will be penalized. If that score dips too low, the chatbot will throw a fit and delete the user’s file and ban that name from being used for future files. When a user is negative or positive, the chatbot will identify what noun the user is speaking about and store that information.

# Dialog Tree

Diagram

Description automatically generated

# Sample Dialog

If the user has not seen the movie and its their first time using the chatbot:

Text

Description automatically generated

Text

Description automatically generated

A picture containing text

Description automatically generated

Text

Description automatically generated

A screenshot of a computer

Description automatically generated

Someone who logs in using an existing file and has seen the movie:

Text

Description automatically generated

The rest of the dialog is like the previous example. Finally, if someone makes the chatbot angry:

Text

Description automatically generated

They will receive special rude greetings from the chatbot as well as …



Getting told off by the chatbot and getting your user file deleted.

# Weaknesses

This chatbot is relatively flexible but could miss prompts that could be answered with my prewritten answers that don’t contain the key words. If this is the case, the chatbot will ask the user to try again or tell them how they can leave the chatbot if they would like to do so. While there is still a good amount of flexibility regarding the type of input the chatbot will understand and respond to, there is a good chance of it being unable to adequately respond to a user. The subject I chose was relatively limited as the movie isn’t super well known, so I could’t find a ton of ratings or trivia from the internet. With the trivia I would have to manually go into the text file and add more facts. With the ratings, however, I compensated for this by adding the user’s ratings for the movie after having watched it. This does leave room for people to be profane or possibly troll the chatbot by adding completely unrelated opinions or statements into the chat file, which would then be shown to anyone who uses it and checks the ratings.

I thought it would be funny for the chatbot to be able to delete a user’s file if they’re being rude to the robot, but I was only able to determine this by using the sentiment analyzer. If the person was negative enough, the chatbot will assume that the user is most likely being rude or mean. This does limit the use of the program. However, when someone is nice to the robot, points are added. So if someone doesn’t like the movie or just tinkers with Llouie and is kind of mean to it, they could restore points and not get their file deleted.