Chatbot Final Project

Tommy Leedberg

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# Summary

This chatbot project will read in a vocabulary set from a specified JSON file and from there build out a ChatBotVocabulary object which will allow the program to ask questions, respond to inquiries, and make small talk about movies, actors, and producers.

## Implemented Patterns

### Observer

The observer pattern was used in conjunction with the Model View Controller(MVC) pattern. It facilitates communication between the model and the views through the controller. The controller is the observer while the input view, output view, and model are the observed.



### Strategy

### Singleton

The singleton pattern was used to implement a single instance of the ChatbotStateMachine. This allows anywhere the ChatbotStateMachine is referenced to know the current state of the chatbot.

### State