UML Class diagram

A diagram of a company

Description automatically generated with medium confidence

This class diagram elaborates on the domain model primarily focusing on how the chatbot should handle message inputs. In short, this class diagram gives more details on what is happening in the black box of the Machine Learning Database in the domain model.

The main thing that changed with this diagram compared to the domain model is the addition and definition of the intentState module which tells the ResponseRenderer how to determine the intent of the user. This reduces the complexity of the operations and better conveys what each class is designed for. The main technique this diagram employs is aligning the user’s intent with a generalized workflow and then fill in the blanks with contextual entities that the user provides in the prompt. If any entities are missing, the chatbot will request the user for the missing entity, until the chatbot has enough information to complete a workflow path.