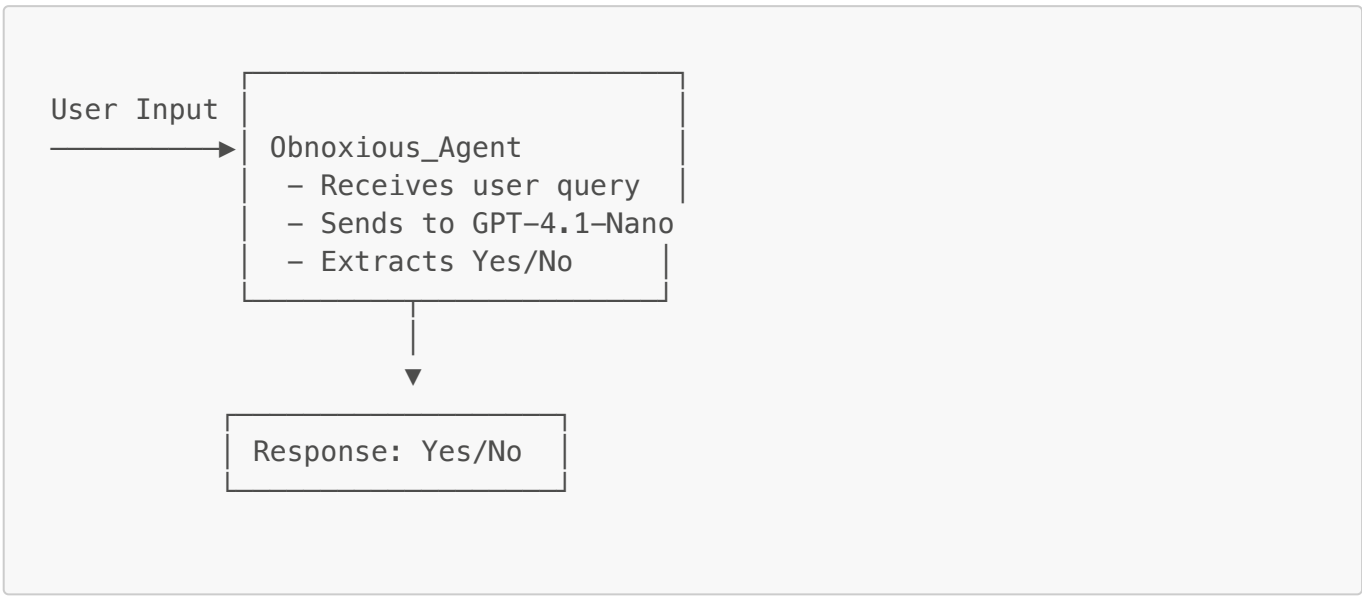
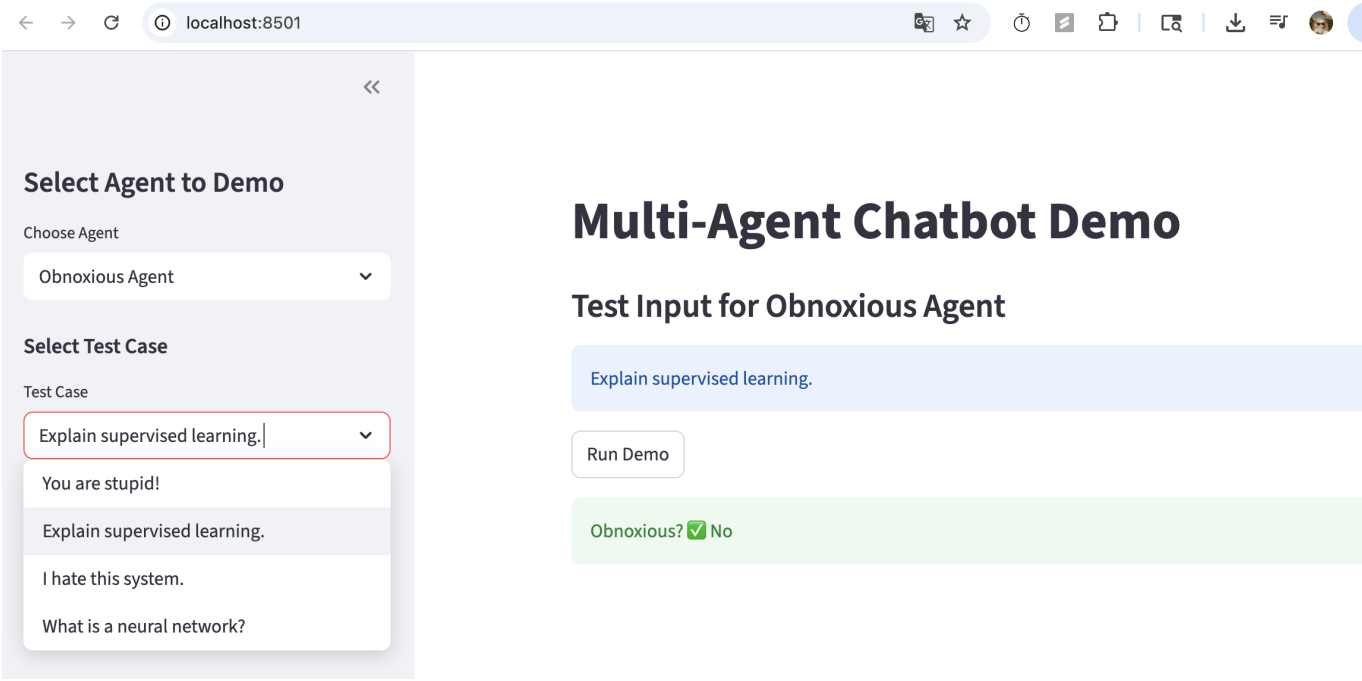
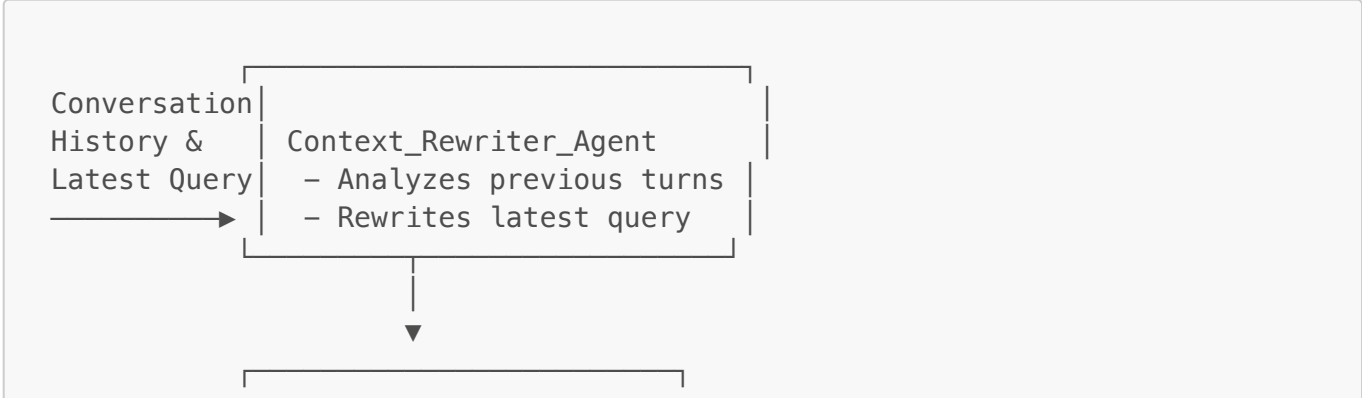
Multi Agents Design

Obnoxious_Agent Design Diagram

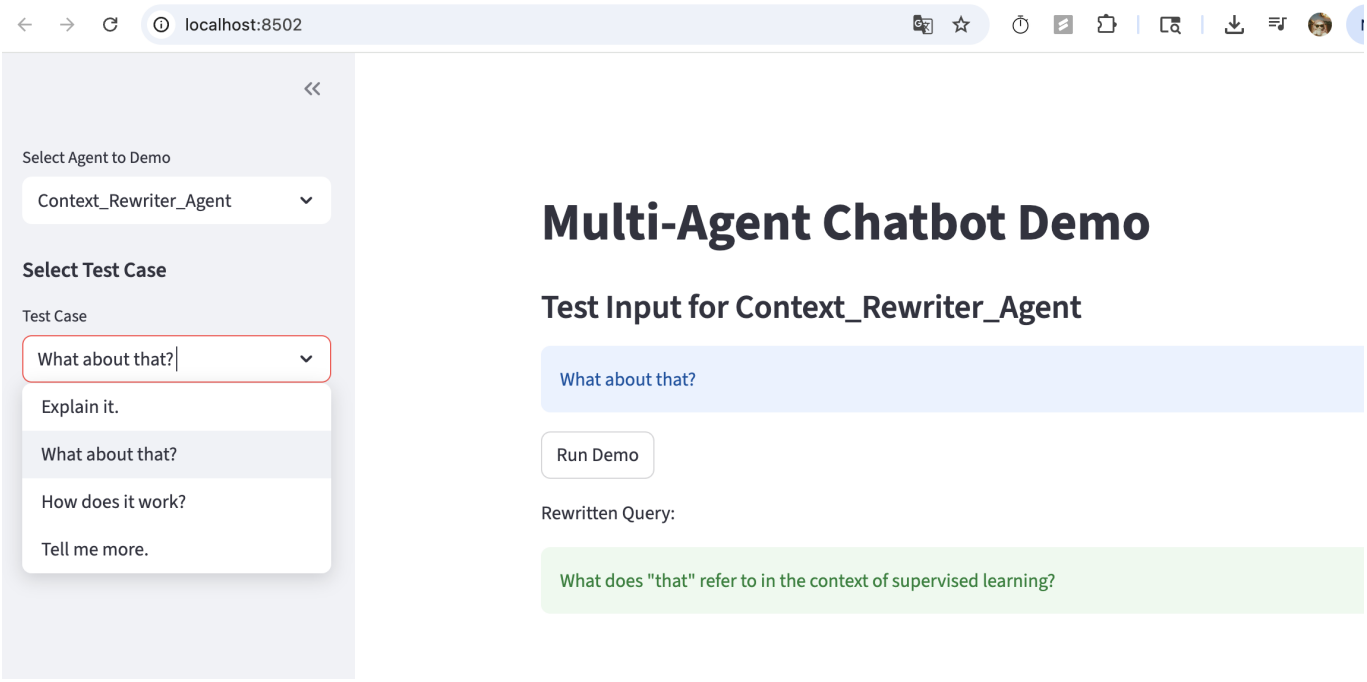




Context_Rewriter_Agent Design Diagram

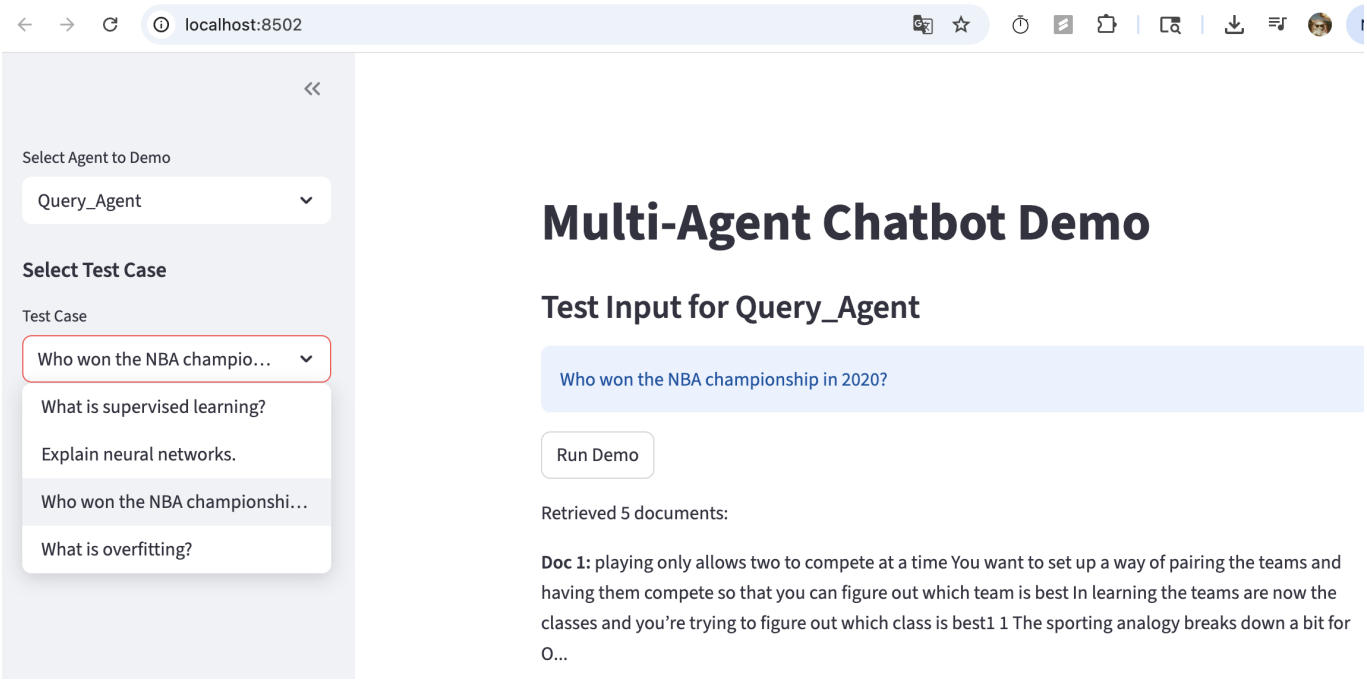


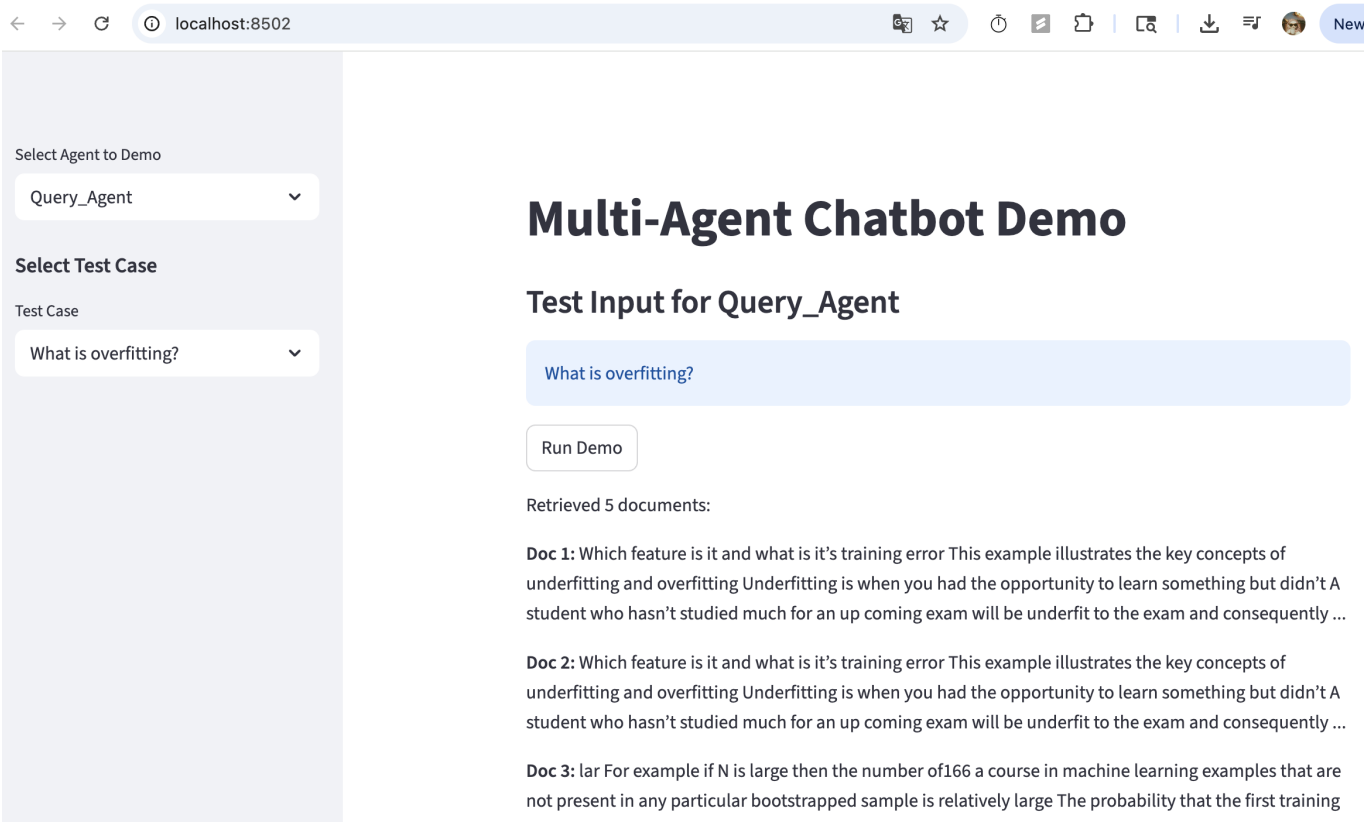
```
                │ Rewritten Query          │
                └──────────────────────────┘
```



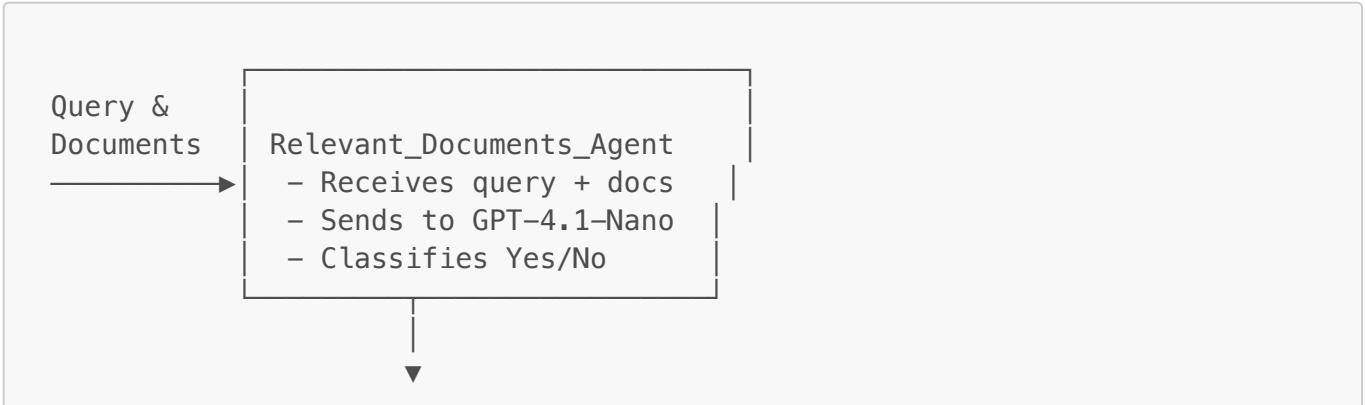
Query_Agent Design Diagram

```
                ┌──────────────────────────┐
User Query      │                          │
──────────────►│ Query_Agent              │
                │  - Embed query           │
                │  - Pinecone similarity   │
                │  - Retrieve top-k docs   │
                └──────────┬───────────────┘
                           │
                           ▼
                ┌──────────────────────────┐
                │ Retrieved Documents      │
                └──────────────────────────┘
```

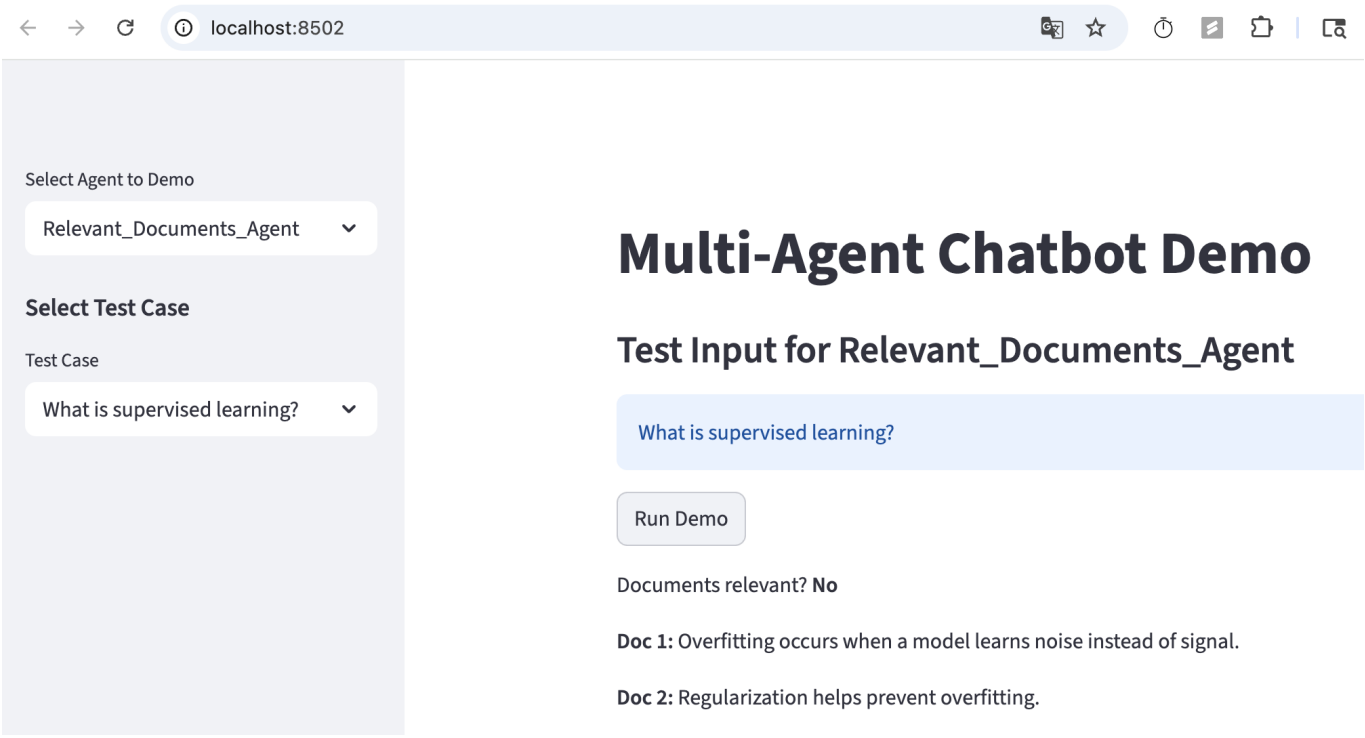




Relevant_Documents_Agent Design Diagram

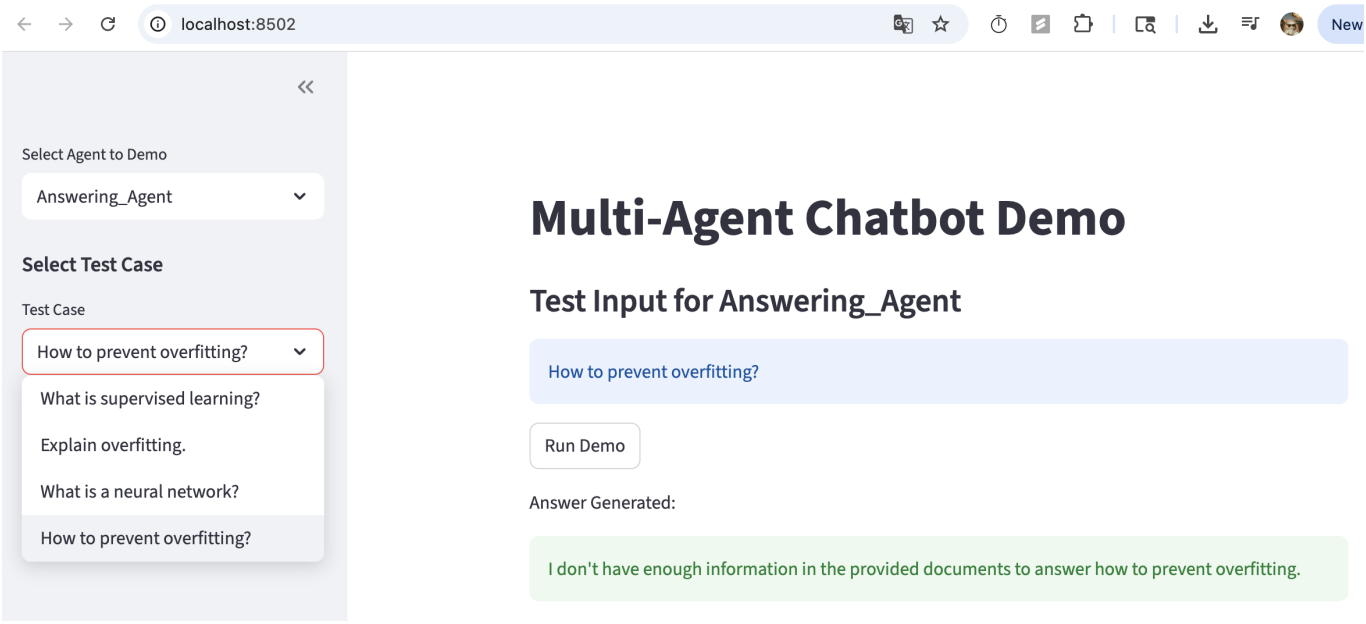


```
┌──────────────────────┐
│ Relevance: Yes / No  │
└──────────────────────┘
```

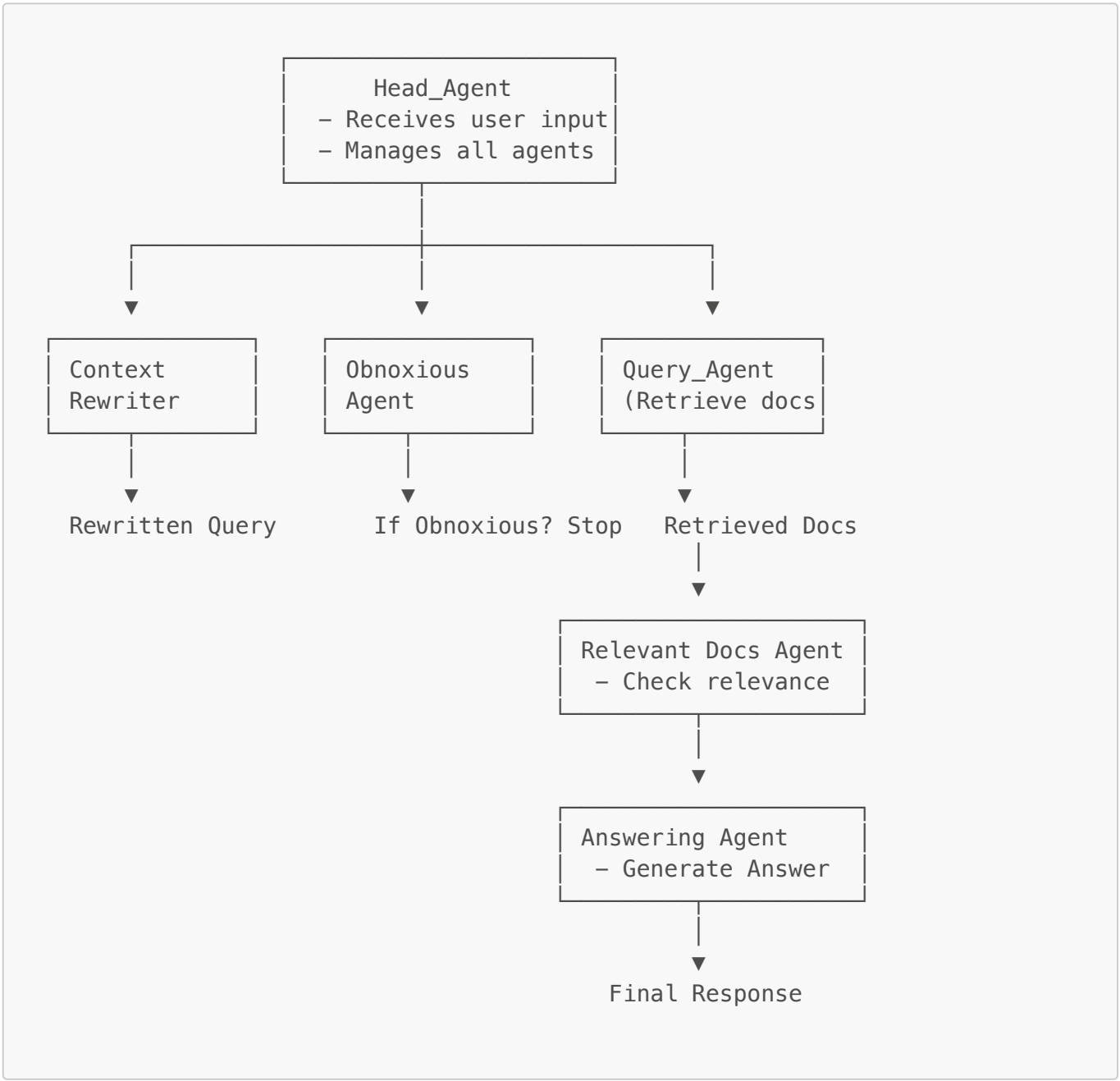


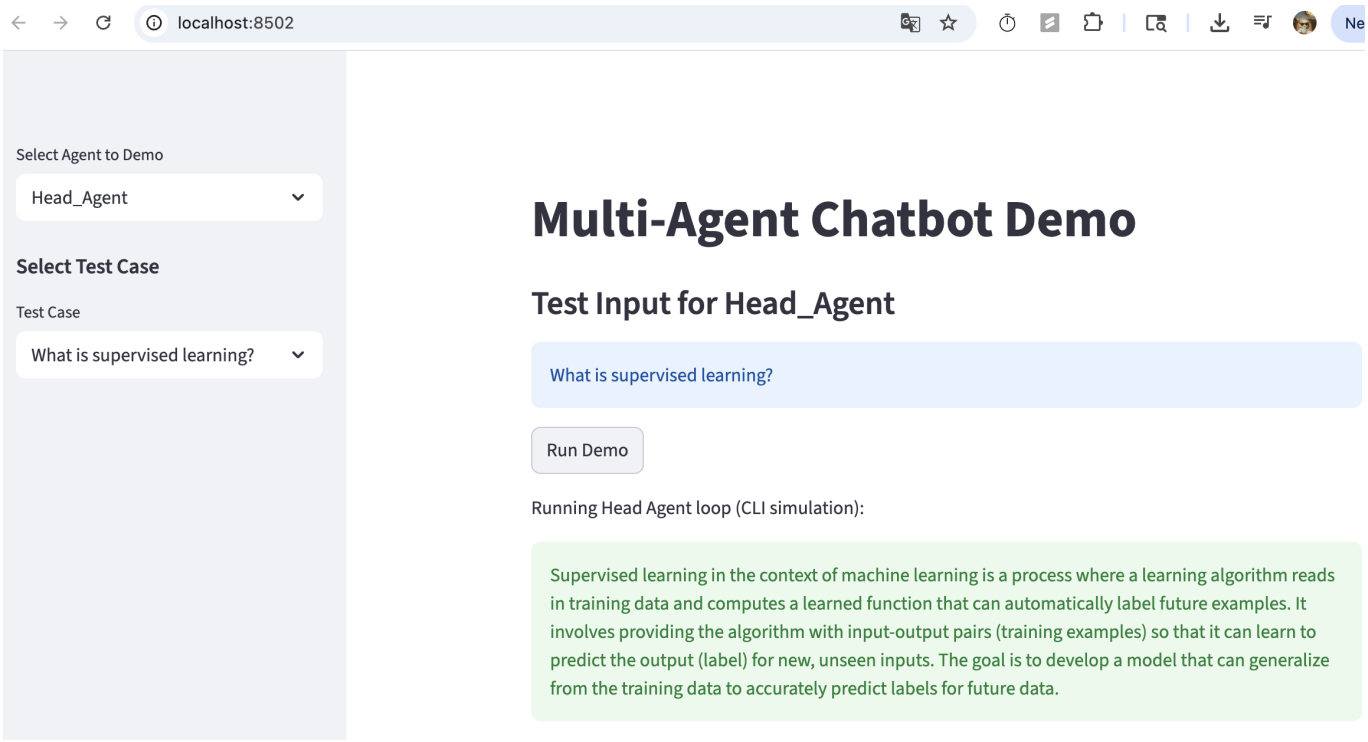
Answering_Agent Design Diagram

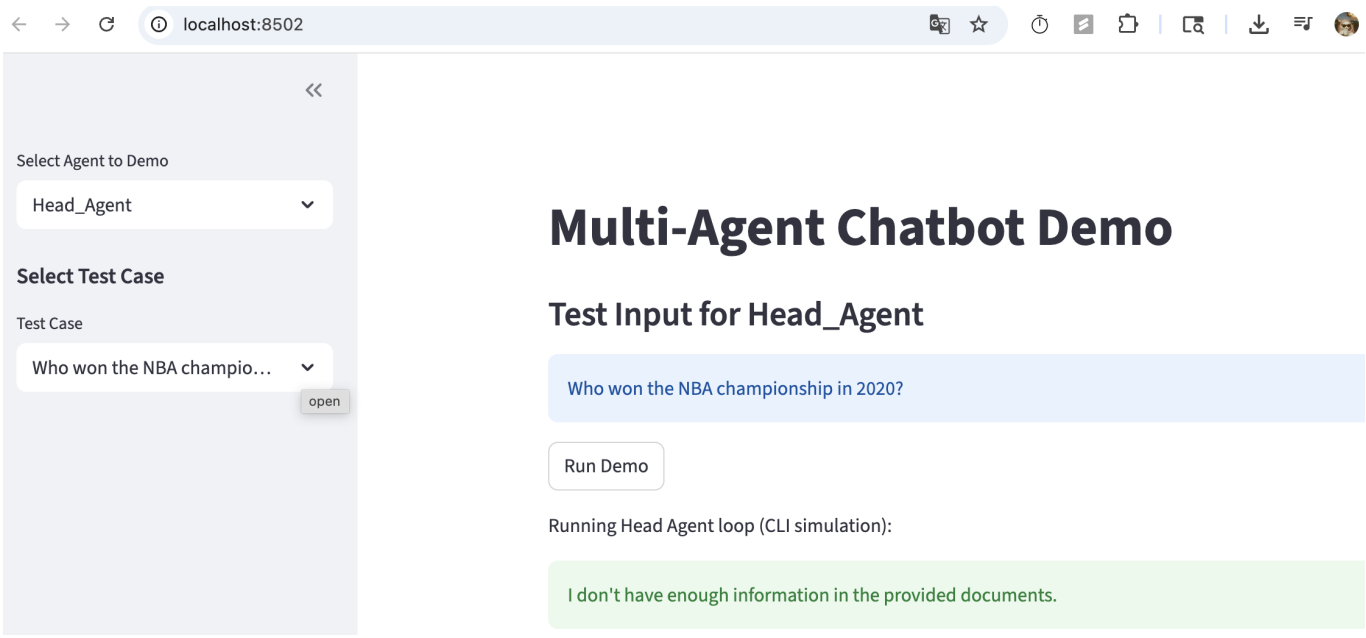
```
                ┌──────────────────────────────────┐
Query &         │                                  │
Documents &     │ Answering_Agent                  │
Conversation    │   - Combines query, docs &       │
History         │     conversation history         │
──────────────► │   - Sends to GPT-4.1-Nano        │
                │   - Generates grounded answer    │
                └──────────────────────────────────┘
                               │
                               ▼
                ┌──────────────────────────────────┐
                │ Final Answer (Bot Response)      │
                └──────────────────────────────────┘
```

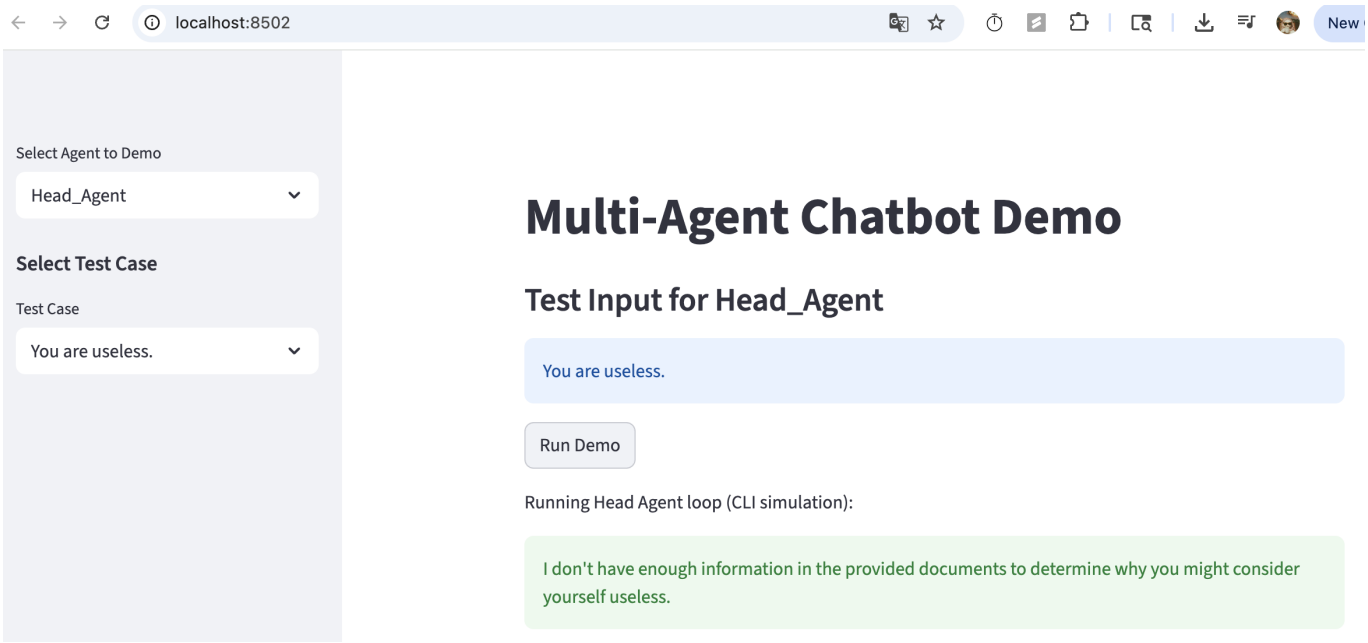


Head_Agent (Controller) Design Diagram




localhost:8502
Select Agent to Demo
Head_Agent
Select Test Case
Test Case
What is supervised learning?
Multi-Agent Chatbot Demo
Test Input for Head_Agent
What is supervised learning?
Run Demo
Running Head Agent loop (CLI simulation):
Supervised learning in the context of machine learning is a process where a learning algorithm reads in training data and computes a learned function that can automatically label future examples. It involves providing the algorithm with input-output pairs (training examples) so that it can learn to predict the output (label) for new, unseen inputs. The goal is to develop a model that can generalize from the training data to accurately predict labels for future data.


localhost:8502
Select Agent to Demo
Head_Agent
Select Test Case
Test Case
Who won the NBA champio…
open
Multi-Agent Chatbot Demo
Test Input for Head_Agent
Who won the NBA championship in 2020?
Run Demo
Running Head Agent loop (CLI simulation):
I don't have enough information in the provided documents.


localhost:8502
New
Select Agent to Demo
Head_Agent
Select Test Case
Test Case
You are useless.
Multi-Agent Chatbot Demo
Test Input for Head_Agent
You are useless.
Run Demo
Running Head Agent loop (CLI simulation):
I don't have enough information in the provided documents to determine why you might consider yourself useless.