

# 해양 SW 설계 실습

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구형진

# OVER VIEW

## Backend code structure

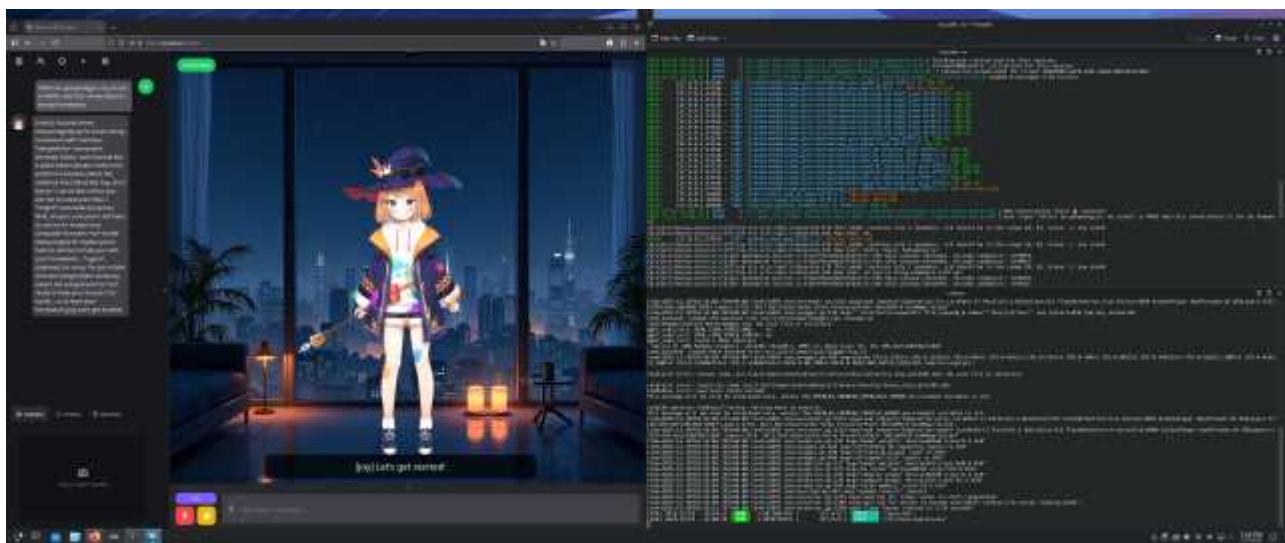
```
mywife/
├── background/          # Background image resource directory
├── characters/         # Character configuration file directory
├── frontend/            # Frontend page file directory
├── live2d-models/       # Live2D model resource directory
├── logs/                # Log file directory
├── models/               # AI model file directory
├── prompts/              # Prompt template directory
|   ├── presona/          # Character persona prompts
|   ├── utils/             # Utility prompts
|   └── prompt_loader.py   # Prompt loader
├── src/                 # Source code directory
|   └── open_llm_vtuber/   # Main code package
|       ├── agent/          # AI dialogue agent module
|       |   ├── agents/      # Different types of dialogue agent implementations
|       |   └── stateless_llm/ # Stateless LLM interface implementation
|       ├── asr/              # Speech recognition module
|       ├── tts/              # Text-to-speech module
|       ├── chat_history_manager.py # Chat history manager
|       ├── conversation.py    # Conversation management
|       ├── live2d_model.py     # Live2D model manager
|       ├── routes.py          # FastAPI route definitions
|       ├── server.py          # WebSocket server
|       └── service_context.py # Service context manager
└── conf.yaml             # Default configuration file
└── run_server.py         # Startup script
```

## Hardware :

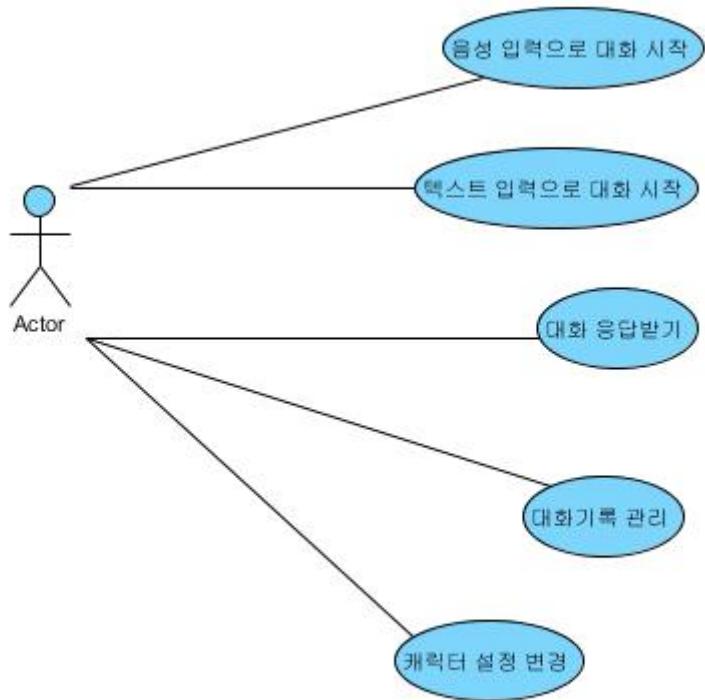
RX9070xt : ollama llm  
rtx 3060 : fast whisper, sherpa-onnx

## Model :

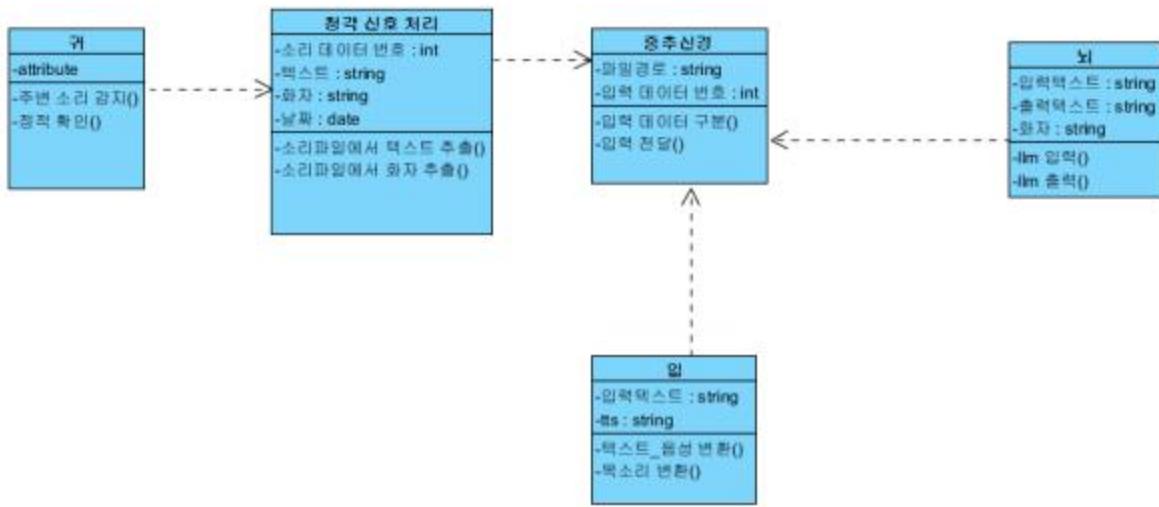
llm : qwen3-vl:8b  
fastwhisper : large-v3-turbo



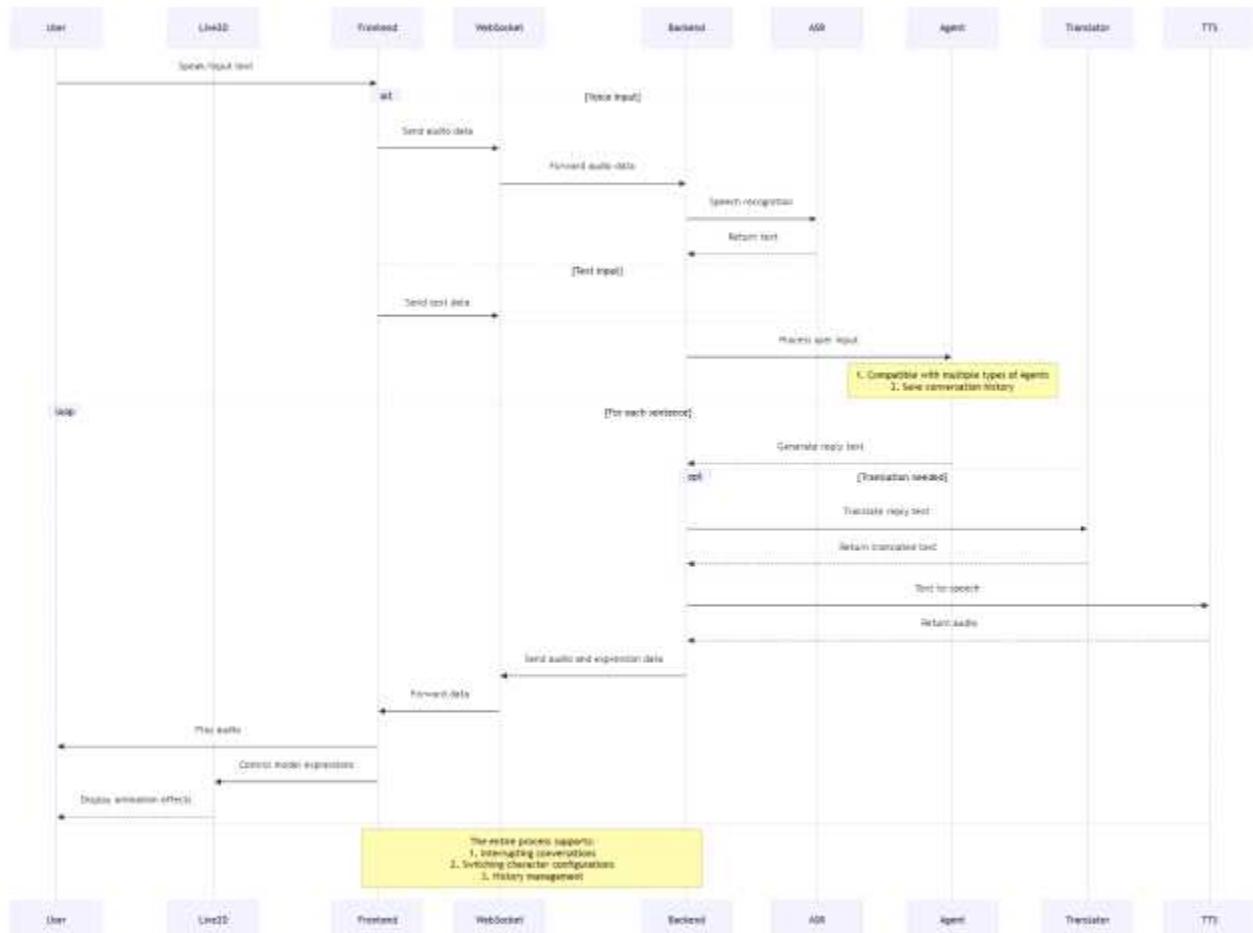
## USECASE Diagram



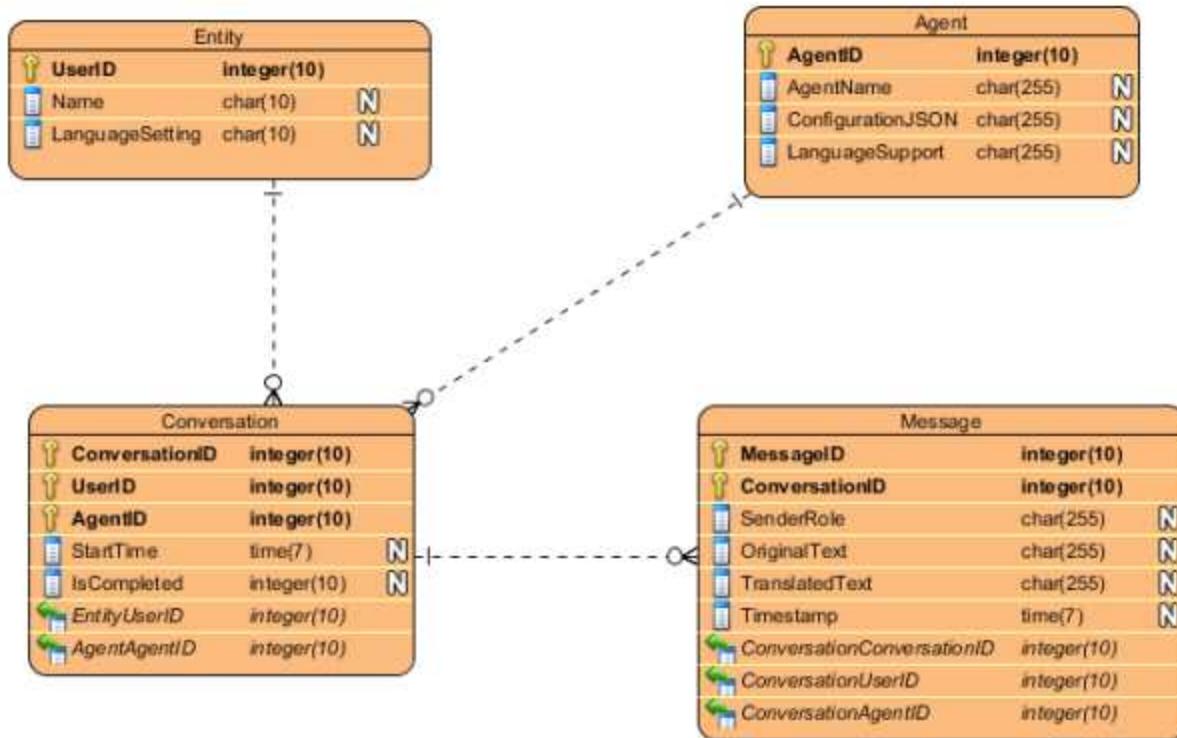
## CLASS Diagram



# Sequence Diagram



## ER Diagram



# UI

