IntelliRoom System Architecture

Client Layer

Web Browser
React.js Frontend

HTTP Polling

REST API

CRUD Ops

Backend Layer

API Gateway
Node.js + Express
[Business Logic]

HTTP POST

Generation Status

AI Service Container

Data Layer

MongoDB

ComfyUI Engine

Stable Diffusion
ControlNet
LoRA Models

Read Assets

File Storage
(Local/Cloud)

Upload/Retrieve