Desktop AI Assistant - UI Specification

1. Functionality Overview

- Sidebar with Controls (SER, FER, TTS toggles, LLM selector, Metrics panel) - Main Area with: * Video feed with FER overlay * Chat stream with SER emotion badges * SER confidence sparkline * System metrics display - Bottom bar: Mic toggle, Push-to-talk, File upload, Settings

2. Architecture & Design Choices

- Electron front-end for cross-platform desktop support - Python backend (FastAPI + aiortc) for real-time processing - WebRTC for low-latency audio/video/data - Modular model loader for LLM (Gemma), SER, FER - Metrics & Alert hooks for Grafana/Prometheus integration

3. Text UI Mockup

+	+
[Sidebar - left]	[Main Area - right]
+	
Connect / Settings	[Video / FER Overlay]
[x] SER -	
[x] FER	Chat Stream with Emotion Badges
[x] TTS -	
LLM: [gemma-local] S	SER Confidence Sparkline
Metrics / Alerts S	System Metrics (CPU / GPU / Latency)
++	+
Bottom Bar: Mic Push-to-Talk File Upload Settings	
+	+