Executive Summary of changes

the team whentified Several critical issues in the system related to memory leaks, architectural inconsistencies, and resource management deficiencies. Key Problems included websocket connections left open undefinitely, audio resources not being relessed properly. Courotines without apropriate cancellation the chanisms, we cases not injected through dependecy injection, repository Methods with inconsistens signatures, and vi States that did not acurately reflect connections status.

to address these issues, thiltiple solutions were inflemented the websock Hananger was redesigned with clean up mechanisms, consultine concellation, and more robust state and error handling. The audio service was optimized to systematically release audio resources, implement state controls, and perform automatic cleanup when stoping recording or playback. Thesendercy injection was completed by creating a dedicated use case module, resolving missing dependencies, and consisted along modules for better maintainability. Finally repository, methods were standarzized with consistent signatures and improved integration with the websocket manger.

the outcome of a cleaner, more maintainable and scalable system, better prepared for future needs and more resilient against errors

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