**File Structure and Import Guide**

To ensure all components work correctly together, please make sure your files are organized as follows:

**1. Backend Files**

* streaming.py - Contains the stream\_tts\_from\_openai function that requests MP3 audio from OpenAI
* speak\_stream.py - Contains the FastAPI endpoint that serves the streaming MP3 audio

**2. Frontend Files**

* MP3StreamPlayer.jsx - Class that handles the audio streaming logic
* MP3StreamPlayerWrapper.jsx - React component wrapper for the MP3StreamPlayer
* ChatUI.jsx - Main chat interface that uses the MP3StreamPlayerWrapper
* MicButton.jsx - Component for recording voice input (existing component)

**3. Import Relationships**

* ChatUI.jsx imports MP3StreamPlayerWrapper (not MP3StreamPlayer directly)
* MP3StreamPlayerWrapper.jsx imports MP3StreamPlayer

**4. Implementation Checklist**

1. Update streaming.py to request MP3 format from OpenAI ✅
2. Update speak\_stream.py to serve content with the correct media type and buffering ✅
3. Create MP3StreamPlayer.jsx with the optimized streaming logic ✅
4. Create MP3StreamPlayerWrapper.jsx to wrap the player in a React component ✅
5. Update ChatUI.jsx to use the MP3StreamPlayerWrapper ✅

**Troubleshooting**

If you're seeing a "Class constructor cannot be invoked without 'new'" error:

* Make sure ChatUI.jsx is importing and using MP3StreamPlayerWrapper, not the MP3StreamPlayer class directly
* Check that file names exactly match the imports
* Ensure all components are properly exported with export default

All component files should be in the same directory or the import paths need to be adjusted accordingly.