HTX Transcriber Application Architecture

Overview

The HTX Transcriber is a web application that allows users to upload audio files and get transcriptions. The application consists of a React TypeScript frontend and a FastAPI Python backend.

System Architecture

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|                |      |                |      |                |
|  React Frontend|----->|  FastAPI Backend|---->|  SQLite Database|
|  (TypeScript)  |<----|  (Python)       |<----|                |
|                |      |                |      |                |
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        |                       |                       |
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|                |      |                |      |                |
|  Material-UI   |      |  OpenAI Whisper |      |  Alembic       |
|  Components    |      |  Transcription  |      |  Migrations    |
|                |      |                |      |                |
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```