xData System Architecture
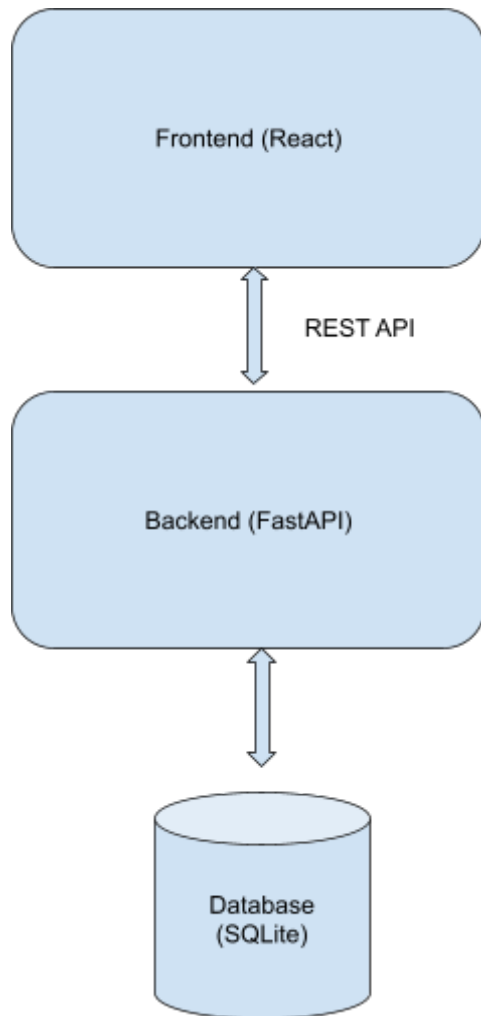
Frontend (React)

REST API

Backend (FastAPI)

Database (SQLite)

Frontend
- ● The frontend is the user interface built with React. It communicates with the backend via REST API calls (using Axios)

Backend
- ● The backend is a FastAPI server that handles business logic and processes requests from the frontend.
- ● It exposes API endpoints like POST/transcribe.
- ● It communicates with the database to read and write information
- ● It also performs the transcription of an audio file to text

Database
- ● The database persists data to be recalled in future
- ● It stores the name of the file, transcription text, and timestamp