Deployment Diagram — QuickForms AI System

◆ **Deployment Diagram – QuickForms AI System**

Nodes:

• Client (Browser/Device) → runs React frontend
• Web Server → hosts frontend (Vite build)
• App Server (Express/TS) → backend logic, AI services
• Database Server (PostgreSQL/Mongo) → form + submission storage
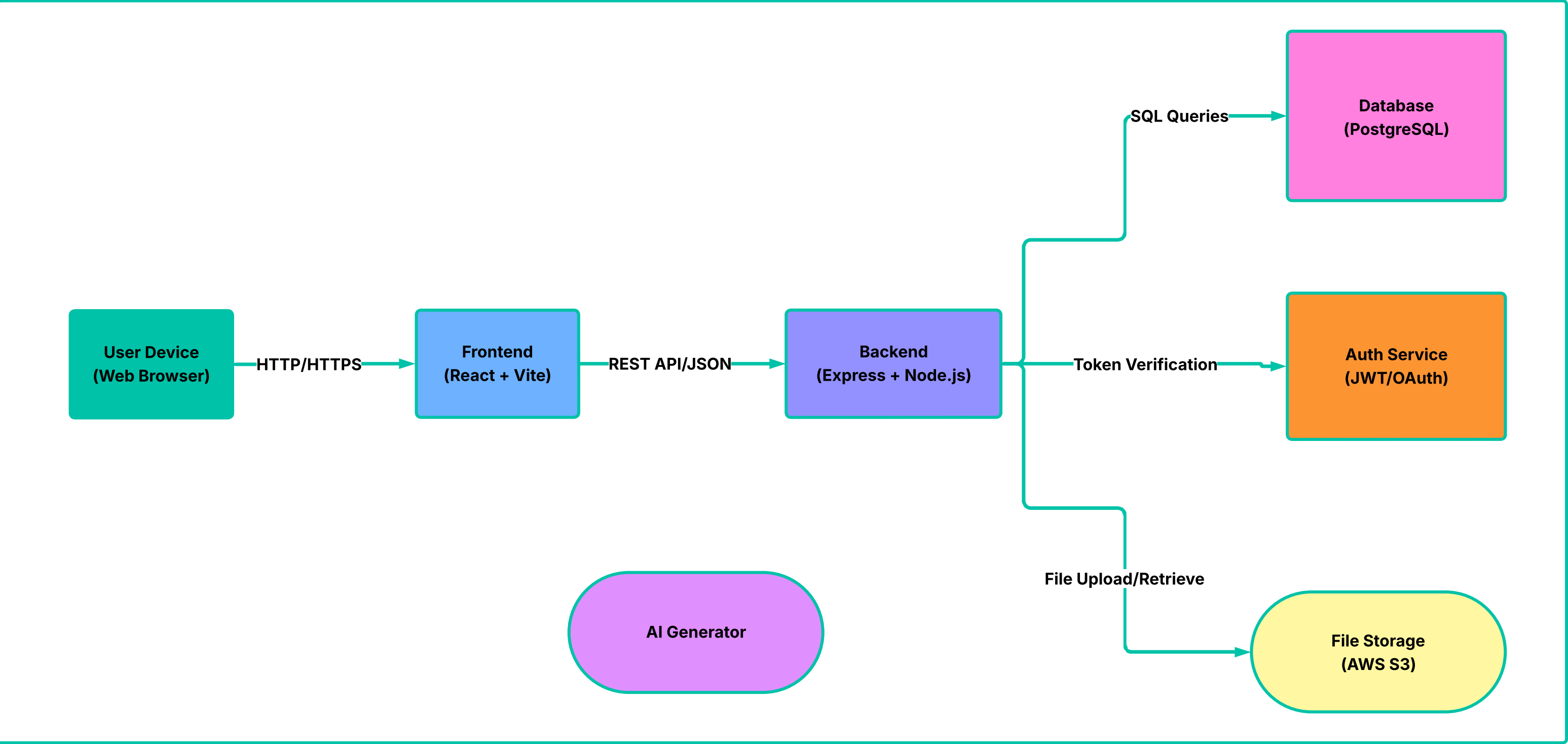• External AI API (OpenAI) → optional integration
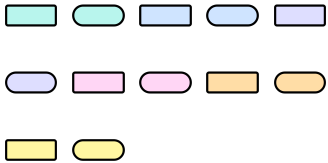
Connections:

Client ⬌ Web Server (HTTPS)
Web Server ⬌ App Server (REST API)
App Server ⬌ Database (JDBC/ORM)
App Server ⬌ External AI API (HTTP)

Flowchart shapes

Share

Comment

User Device (Web Browser) — HTTP/HTTPS → **Frontend (React + Vite)** — REST API/JSON → **Backend (Express + Node.js)**

Backend (Express + Node.js) — SQL Queries → **Database (PostgreSQL)**

Backend (Express + Node.js) — Token Verification → **Auth Service (JWT/OAuth)**

Backend (Express + Node.js) — File Upload/Retrieve → **File Storage (AWS S3)**

AI Generator