

# Project File Structure and Interactions

Generated: 2025-04-23 07:50

```
■ churn-dashboard/
■ ■ ■ ■ ■ public/
■   ■ ■ ■ index.html           # Root HTML file loaded into browser
■ ■ ■ ■ ■ src/
■   ■ ■ ■ App.js               # Main UI component with all logic and GPT interactions
■   ■ ■ ■ api.js               # Sends question + data to backend /api/chat (Render)
■   ■ ■ ■ App.css              # Styling for dashboard UI
■   ■ ■ ■ ■ components/
■       ■ ■ ■ LoginPage.js     # Login screen (admin / admin@123)
■ ■ ■ .gitignore               # Tells Git to ignore .env and node_modules
■ ■ ■ package.json             # Project metadata, dependencies, scripts
■ ■ ■ .env (ignored by Git)    # Contains your OPENAI_API_KEY (used in backend only)

■ server/
■ ■ ■ index.js                 # Express backend handling /api/chat
■ ■ ■ package.json             # Backend dependencies (express, cors, axios)
■ ■ ■ .env                     # OPENAI_API_KEY securely loaded from here
```

## Interactions:

- App.js -> api.js: sends prompt + chart data to backend
- api.js -> server/index.js: POST to /api/chat
- server/index.js -> OpenAI API: forwards prompt with key
- Render backend replies with GPT response
- App.js displays the response to the user

## Extras:

- UptimeRobot -> Render: keeps backend alive
- Vercel -> Hosts frontend and auto-deploys on GitHub push