

Project File Structure and Interactions

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```
■ 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