## Preflight project - frontend

Github Repo

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#### Frontend framework

Tool that enables you to develop the frontend of your applications

#### Why?

- You don't have to everything code from scratch.
- You can collaborate with others more easily.

#### Frontend JS framework

- State of JS 2024
- Stack Overflow Survey 2024

#### Frontend tooling

- Code bundler ("build tools")
- Development server
  - Hot module replacement (HMR)

# Frontend tooling

- Vite
- Webpack
- Parcel
- Rollup

#### Setup

- React
  - pnpm create vite@latest (Follow the instruction)
- Additional libraries
  - pnpm i dayjs axios @picocss/pico

#### **Files**

- Remove all css files
- ./vite.config.ts (Link)
- Modify ./tsconfig.node.json (Link)
- Modify ./package.json (Link)
- ./src/main.ts (Link)
- ./src/types.ts (Link)
  - I use Quicktype to generate this.

### Minimal example

- ./src/App.ts (Link)
- Start dev
  - o npm run dev

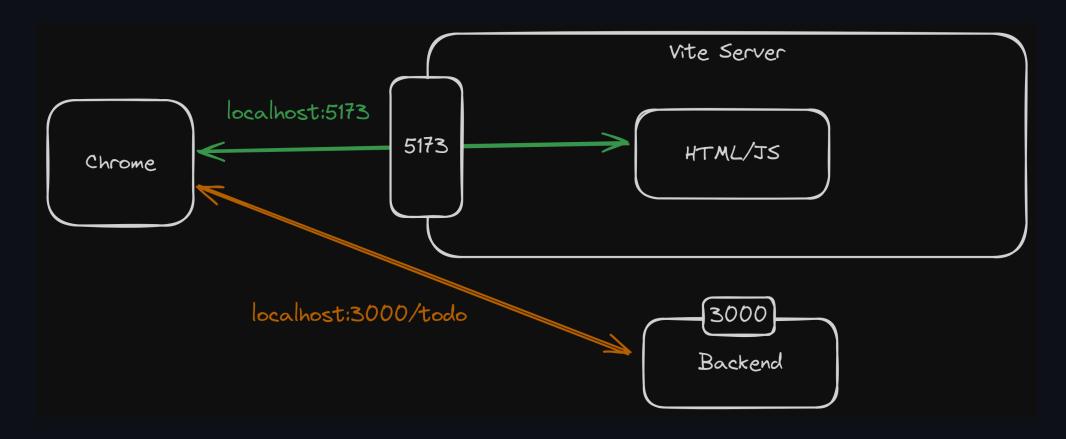
### **Full example**

- ./src/App.ts (Link)
- Build
  - o npm run build
- Preview
  - npm run preview

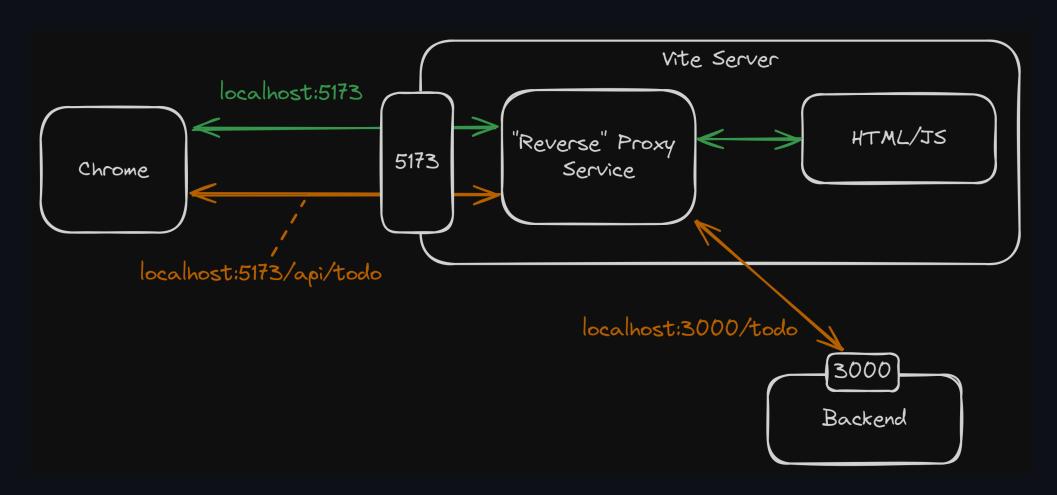
#### Why reverse proxy?

- No need to expose your backend to the internet.
- No issues with CORS and cookies.

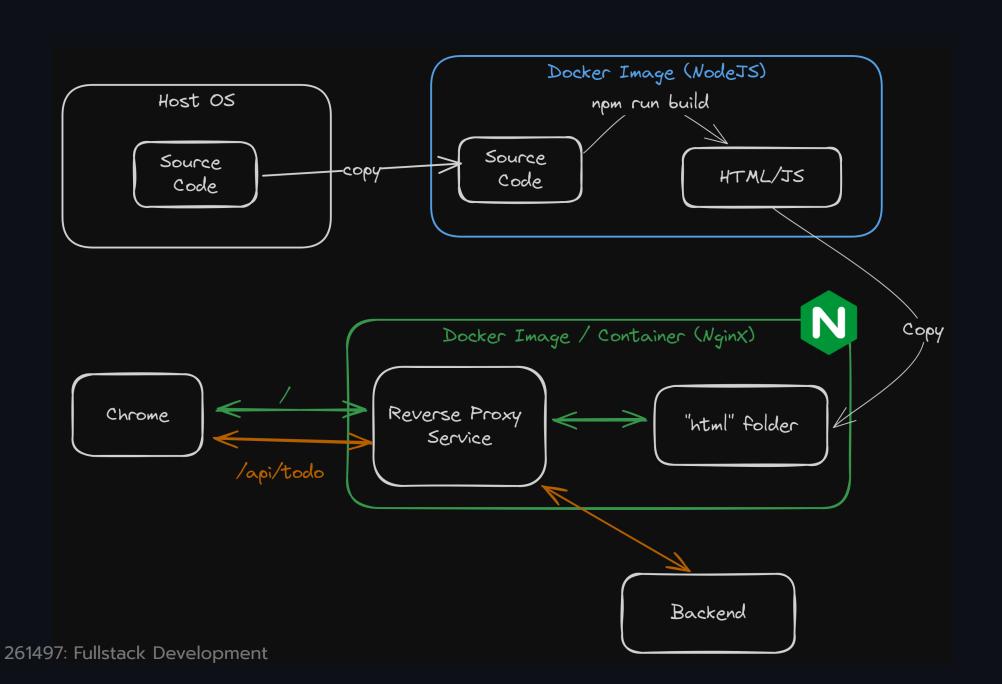
### Without reverse proxy



# Wtih reverse proxy

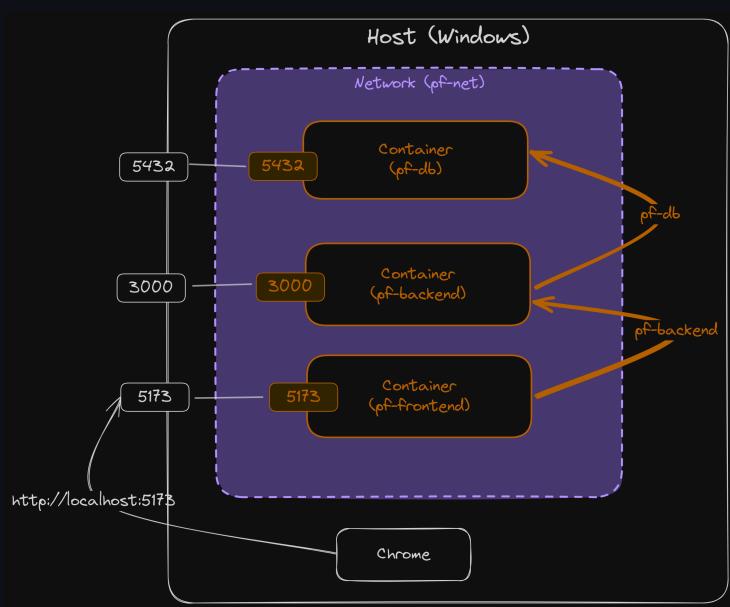


#### Containerization



#### Steps

```
Make ./.env.test from ./.env.test.example (Link)
./Dockerfile (Link)
./.dockerignore (Link)
./nginx.conf.template (Link) (Why)
./docker-compose.yml (Link)
docker compose --env-file ./.env.test up -d --force-recreate --build
```



#### **Push to Dockerhub**

- Create an account at https://hub.docker.com.
- Create repository called preflight-frontend.
- Tag image
  - docker tag preflight-frontend [DOCKERHUB\_ACCOUNT]/preflightfrontend:latest
- Login (if you have not done so)
  - ■ docker login -u [DOCKERHUB\_ACCOUNT]
- Push image
  - o docker push [DOCKERHUB\_ACCOUNT]/preflight-frontend:latest

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