

StudyBuddy Monorepo Setup Guide

0) Final folder layout

```
StudyBuddy/  
├── apps/  
│   ├── frontend/  # Vue 3 + Vite + Tailwind v4 + DaisyUI  
│   └── backend/    # Node + Express  
├── db/             # optional  
├── package.json    # optional root workspaces + scripts  
├── .gitignore  
└── README.md
```

1) Create project + folders

```
mkdir StudyBuddy && cd StudyBuddy  
mkdir -p apps/backend apps/frontend db
```

2) Frontend — Vue + Vite

```
cd apps/frontend  
npm create vue@latest .  
npm install  
npm run dev
```

Tailwind CSS v4 + DaisyUI

```
npm i -D tailwindcss @tailwindcss/postcss postcss autoprefixer  
npm i -D daisyui
```

postcss.config.js

```
export default {  
  plugins: {  
    '@tailwindcss/postcss': {},  
  },  
};
```

tailwind.config.js

```
export default {  
  content: ["../index.html", "./src/**/*.vue,js,ts,jsx,tsx"],  
  theme: { extend: {} },  
  plugins: [require("daisyui")],  
};
```

src/assets/main.css

```
@import "tailwindcss";
```

3) Backend — Node + Express

```
cd ../../apps/backend
npm init -y
npm i express
npm i -D nodemon
```

apps/backend/package.json

```
{
  "name": "backend",
  "type": "module",
  "main": "src/server.js",
  "scripts": {
    "start": "node src/server.js",
    "dev": "nodemon src/server.js"
  },
  "dependencies": {
    "express": "^4.19.2"
  },
  "devDependencies": {
    "nodemon": "^3.1.0"
  }
}
```

apps/backend/src/server.js

```
import express from "express";

const app = express();
const PORT = process.env.PORT || 4000;

app.use(express.json());

app.get("/api/health", (_req, res) => {
  res.json({ ok: true, service: "backend" });
});

app.listen(PORT, () => {
  console.log(`API listening on http://localhost:${PORT}`);
});
```

4) Root workspaces (optional)

```
{
  "name": "studybuddy",
  "private": true,
  "workspaces": ["apps/frontend", "apps/backend"],
  "scripts": {
    "dev": "concurrently -k -n FRONTEND,BACKEND \"npm:dev --workspace apps/frontend\" \"npm:dev --workspace apps/backend\"",
    "build": "npm run build -w apps/frontend && npm run build -w apps/backend"
  },
  "devDependencies": {
    "concurrently": "^9.0.0"
  }
}
```

5) Git + GitHub

```
.gitignore
-----
```

```

**/node_modules/
**/.env
**/.env.*local
dist/
build/
.cache/
.vscode/
.DS_Store
logs/
*.log

Initialize & push:
git init
git add .
git commit -m "Initial commit"
git remote add origin https://github.com/<your-username>/StudyBuddy.git
git branch -M main
git push -u origin main

If remote has commits already:
git fetch origin
git merge --allow-unrelated-histories origin/main
git push -u origin main

```

6) Verification Checklist

- Frontend dev server: <http://localhost:5173> - Backend dev server: <http://localhost:4000/api/health> - Proxy works: </api/health> - Tailwind + DaisyUI: