MERN Stack

Mongo DB

Express Web server

React framework

Node.js

PERN Stack

Postgress SQL

Express Web server

React framework

Node.js

MERN

Install Node.js

Install VSCode

-VS Code installed to C:\Users\dford\AppData\Local\Programs\Microsoft VS Code

-CoPilot shortcut Ctrl+Alt+i

-CoPilot tips and tricks: https://code.visualstudio.com/docs/copilot/copilot-vscode-features

Install Git

Install Postman

Node Package Manger

Vite

npm create vite@latest introdemo --template react

npm install – installs dependencies

npm update – updates dependencies

Hosting – Fly.io

Install flyctl

Added fly to PATH env variable $env:PATH += ";C:\Users\dford\.fly\bin"

Initialize app - fly launch --no-deploy

Deploy app – fly deploy

Open app – fly apps open

View server logs – fly logs

Set environment variables in Fly: fly secrets set NAME=VALUE

Debugging

Can use VSCode debugger

-might need launch.json file <https://code.visualstudio.com/docs/editor/debugging>

Chrome debugger

Start app with – node –inspect index.js

Use MongoDB

Mongoose library for MongoDB API – npm install mongoose

Need .env file to avoid passing password in command line args

Npm install dotenv

To include env variables in fly.io use: fly secrets set ENVNAME:“ENV VAR HERE”

Install Lint

Used to detect and flag errors in programming languages

Npm install eslint @eslint/js –-save-dev

Initialize default ESlint config: npx eslint --init

Plugin that defines a set of code style rules: npm install --save-dev @stylistic/eslint-plugin-js

Inspecting a file: npx eslint index.js

Refactor Backend

File structure

├── index.js

├── app.js

├── dist

│ └── ...

├── controllers

│ └── notes.js

├── models

│ └── note.js

├── package-lock.json

├── package.json

├── utils

│ ├── config.js

│ ├── logger.js

│ └── middleware.js