Preflight project - backend

Github Repo

Node JS backend framework

https://github.com/vanodevium/node-framework-stars

https://2023.stateofjs.com/en-US/other-tools/#backend_frameworks

Packages

- Express JS
 - o npm i express cors helmet body-parser
- Typescript
 - o npm i typescript ts-node tsconfig-paths
 - npm i -D @types/cors @types/express tsc-alias
- ORM
 - o npm i drizzle-orm postgres dotenv
 - o npm i -D drizzle-kit nodemon

ORM code

- All files in ./db folder.
 - No need to copy migration folder.
- Change schema if needed.
- .\drizzle.config.ts (Link)

Files

- .env (Copy from here)
- nodemon.json (Link)
- .gitignore (Link)

Typescript

- npx tsc --init
- Note the outDir and include fields in ./tsconfig.json. (See code on the next page)
 - Once we use outDir option any non- ./src folder needs to be included, including the root.

./tsconfig.json

```
"ts-node": {
  "require": ["tsconfig-paths/register"]
},
"compilerOptions": {
  // ...
  "outDir": "./dist",
  "baseUrl": "./",
  "paths": {
    "@src/*": ["./src/*"],
    "@db/*": ["./db/*"]
  // ...
"include": ["./*", "./src/**/*", "./db/**/*"]
```

Script

```
"scripts": {
  "db:generate": "drizzle-kit generate",
  "db:push": "drizzle-kit push",
  "db:migrate": "ts-node ./db/migrate.ts",
  "db:prototype": "ts-node ./db/prototype.ts",
  "dev": "nodemon",
  "build": "tsc && tsc-alias",
  "start": "node ./dist/src/index.js"
```

Backend logic

- ./src/index.ts (Link)
- Start dev
 - o npm run dev
- Build
 - o npm run build
- Start production
 - o npm run start

Containerization

- 🖁 ./Dockerfile (Link)
- 🖁 ./dockerignore (Link)
- ./docker-compose.yml (Link)
- 🖁 ./.env.test from ./.env.test.example (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-backend.
- Tag image
 - o docker tag preflight-backend [DOCKERHUB_ACCOUNT]/preflightbackend:latest
- docker login
- Push image
 - o docker push [DOCKERHUB_ACCOUNT]/preflight-backend:latest

Userful docker commands

Inspect

- o docker ps
- o docker network ls
- o docker volume ls

Cleaning

- docker image prune -a
- docker builder prune
- o docker volume prune
- o docker network prune