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Express with Drizzle Project Structure

Express with Drizzle ORM—SQL-like queries with full TypeScript inference and lightweight runtime.

#express

#nodejs

#typescript

#drizzle

#database

#sql

PNG

PDF

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Prompt

Project Directory



myproject/

- > **src/** Application sou...
- index.ts Server startup

app.ts Express setup
- > **db/** Database layer
- index.ts Drizzle client ...

schema.ts Table definitio...

> **migrations/**

.gitkeep
- > **routes/**
- index.ts

user.routes.ts

post.routes.ts
- > **controllers/**
- user.controller.ts

post.controller.ts
- > **services/**
- user.service.ts Uses Drizzle qu...

post.service.ts
- > **middleware/**
- error-handler.ts

validation.ts
- > **types/**
- index.ts
- drizzle.config.ts Drizzle Kit con...
- > **tests/**
- setup.ts

user.test.ts
- package.json
- tsconfig.json
- .env.example
- .gitignore

Why This Structure?

Drizzle gives SQL-like syntax with full TypeScript inference—no code generation step. Schema defined in TypeScript means your IDE knows your tables. Lightweight runtime works great on serverless and edge.

Key Directories

- src/db/schema.ts** - Table definitions as TypeScript code
- src/db/index.ts** - Drizzle client configured and exported
- src/db/migrations/** - SQL migrations generated by Drizzle Kit
- drizzle.config.ts** - Migration and push configuration

> Getting Started

1. `npm install`
2. `cp .env.example .env` (set DATABASE_URL)
3. `npx drizzle-kit generate`
4. `npx drizzle-kit migrate`
5. `npm run dev`

</> Schema Definition

// src/db/schema.ts

import { pgTable, serial, varchar } from 'drizzle-orm/pg-c...

export const users = pgTable('users', {

id: serial('id').primaryKey(),

name: varchar('name', { length: 255 }),

email: varchar('email', { length: 255 }).unique(),

});

When To Use This

- Prefer SQL-like query syntax over methods
- Need lightweight runtime for serverless
- Want schema-as-code without generation step
- Deploying to edge runtimes
- Starting new projects with modern tooling

Trade-offs

- Newer ecosystem** - Fewer tutorials and community resources
- SQL knowledge needed** - Queries look like SQL—need to know SQL
- Less abstraction** - More explicit than Prisma