

Hono with Drizzle Project Structure

Hono integrated with Drizzle ORM for type-safe queries. Edge-compatible with D1, Turso, and Neon.

#hono #typescript #drizzle #database #edge #d1

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 Prompt

Project Directory

myproject/

- >  **src/**
-  index.ts

Entry point
-  app.ts

Hono app setup
- >

 **db/**

 Database layer

 index.ts

Drizzle client

 schema.ts

Table definitio...
- >

 **routes/**

 index.ts

 users.ts

 posts.ts
- >

 **services/**

 user.service.ts

Drizzle queries

 post.service.ts
- >

 **middleware/**

 db.ts

Inject db in co...

 error-handler.ts
- >

 **types/**

 index.ts
- >

 **migrations/**

 Drizzle migrati...

 .gitkeep
-  drizzle.config.ts

Drizzle Kit con...
-  wrangler.toml

D1 binding
-  package.json
-  tsconfig.json
-  .gitignore

Why This Structure?

Drizzle's lightweight runtime is perfect for edge. Schema-as-TypeScript means no code generation. Works with D1, Turso, Neon, and PlanetScale. Middleware injects the database client into Hono's context.

Key Directories

- src/db/schema.ts** - Table definitions as TypeScript
- src/db/index.ts** - Drizzle client configured for D1 or Turso
- src/middleware/db.ts** - Injects db into `c.var.db`
- migrations/** - SQL migrations from Drizzle Kit

Getting Started

- `npm create hono@latest`
- `npm install drizzle-orm`
- `npm install -D drizzle-kit`
- `npx drizzle-kit generate`
- `wrangler d1 migrations apply`

D1 Schema

```
// src/db/schema.ts
import { sqliteTable, text, integer } from 'drizzle-orm/sqlite'

export const users = sqliteTable('users', {
  id: integer('id').primaryKey({ autoIncrement: true }),
  name: text('name').notNull(),
  email: text('email').unique(),
});
```

When To Use This

- Edge APIs needing persistent storage
- Cloudflare Workers with D1
- Serverless with Turso or Neon
- Type-safe queries without heavy runtime
- Projects preferring SQL-like syntax

Trade-offs

- D1 limits** - SQLite on edge has size and query limits
- Migrations** - Need to apply migrations per environment
- Connection handling** - Edge has different connection semantics