

API REST avec Fastify + Prisma

Partie 1

Objectif :

- Installer le projet
- Configurer Fastify
- Configurer Prisma
- Créer un modèle
- Exposer des routes CRUD simples

1. Prérequis

- Node.js >= 18
- PostgreSQL installé

2. Initialisation du projet

```
mkdir fastify-prisma-api
cd fastify-prisma-api
npm init -y
```

Installation dépendances :

```
npm install fastify @prisma/client
npm install -D prisma typescript ts-node-dev @types/node
```

Initialiser Prisma :

```
npx prisma init
```

3. Configuration TypeScript

Créer `tsconfig.json` :

```
{
  "compilerOptions": {
    "target": "ES2020",
    "module": "CommonJS",
    "rootDir": "./src",
    "outDir": "./dist",
    "strict": true,
    "esModuleInterop": true
  }
}
```

```
}
```

Ajouter dans `package.json` :

```
"scripts": {  
  "dev": "ts-node-dev --respawn src/server.ts"  
}
```

4. Configuration Prisma

Fichier `.env` :

```
DATABASE_URL="postgresql://user:password@localhost:5432/fastifydb"
```

Modifier `prisma/schema.prisma` :

```
datasource db {  
  provider = "postgresql"  
  url      = env("DATABASE_URL")  
}  
  
generator client {  
  provider = "prisma-client-js"  
}  
  
model Post {  
  id          Int      @id @default(autoincrement())  
  title       String  
  content     String?  
  createdAt  DateTime @default(now())  
}
```

Créer la base :

```
npx prisma migrate dev --name init
```

5. Structure simple du projet

```
src/  
├─ server.ts  
└─ prisma.ts
```

6. Prisma Client

`src/prisma.ts`

```
import { PrismaClient } from "@prisma/client"
```

```
export const prisma = new PrismaClient()
```

7. Serveur + Routes simples

```
`src/server.ts`
```

```
import Fastify from "fastify"
import { prisma } from "../prisma"

const app = Fastify({ logger: true })

app.get("/posts", async () => {
  return prisma.post.findMany()
})

app.post("/posts", async (request, reply) => {
  const { title, content } = request.body as any

  const post = await prisma.post.create({
    data: { title, content }
  })

  reply.code(201)
  return post
})

app.listen({ port: 3000 }, () => {
  console.log("Server running on http://localhost:3000")
})
```

8. Lancement

```
npm run dev
```

Tester :

GET <http://localhost:3000/posts> POST <http://localhost:3000/posts>

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