Architecture retenue (routes / controllers / services)

Structure :

```
src/
├── prisma.ts
├── routes/
│      └── user.routes.ts
├── controllers/
│      └── user.controller.ts
└── services/
       └── user.service.ts
```

1. Service (logique métier + DB)

Rôle :

1. Parler à Prisma
2. Contenir la logique métier
3. Ne PAS connaître Fastify

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

export async function createUser(data: {
  name: string
  email: string
}) {
  return prisma.user.create({ data })
}

export async function getUsers() {
  return prisma.user.findMany()
}
```

2. Controller (interface HTTP)

Rôle :

1. Lire request
2. Appeler le service
3. Gérer la réponse HTTP

```
import { FastifyRequest, FastifyReply } from "fastify"
import * as userService from "../services/user.service"

export async function createUser(
  request: FastifyRequest,
```

```
  reply: FastifyReply
) {
  const user = await userService.createUser(
    request.body as any
  )

  return reply.status(201).send(user)
}

export async function getUsers(
  request: FastifyRequest,
  reply: FastifyReply
) {
  const users = await userService.getUsers()
  return reply.send(users)
}
```

3. Routes (déclaration des endpoints)

Rôle :

1. Définir les URLs
2. Relier route → controller

```
import { FastifyInstance } from "fastify"
import * as userController from "../controllers/user.controller"

export async function userRoutes(app: FastifyInstance) {

  app.post("/users", userController.createUser)

  app.get("/users", userController.getUsers)

}
```

4. prisma.ts (instance unique)

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

export const prisma = new PrismaClient()
```

5. Rappel des responsabilités

Routes :

→ mapping URL

Controllers :

→ gestion HTTP

Services :

→ logique métier + DB

Prisma :

→ accès base de données

Conclusion

✔ Pas de classes ✔ Fonctions simples ✔ Séparation claire ✔ Architecture maintenable ✔ Production ready

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