Documentar y testear API

U-TAD

https://swagger.io/

https://editor.swagger.io/

Lo haremos con el API de Swagger para node.js:

npm i swagger-ui-express swagger-jsdoc

Crear la carpeta **docs**/ y ahí el fichero **swagger.js** con las opciones (copiarlo de github)
Y en app.js
const swaggerUi = require("swagger-ui-express")

```
const swaggerSpecs = require("./docs/swagger")
...
app.use("/api-docs",
    swaggerUi.serve,
    swaggerUi.setup(swaggerSpecs)
)
```

app.use("/api", require("/routes"))

Y en routes/auth.js

```
/**
* @openapi
* /api/auth/register:
 * post:
        tags:
       - User
       summary: "User registter"
        description: Register a new user
       requestBody:
            content:
                application/json:
                    schema:
                        $ref: "#/components/schemas/user"
       responses:
            12001:
                description: Returns the inserted object
            '401':
                description: Validation error
        security:
            - bearerAuth: []
router.post("/register", validatorRegister, registerCtrl)
```

```
/**
 * @openapi
 * /api/auth/login:
 * post:
        tags:
        - User
        summary: Login user
        description: ''
        requestBody:
            content:
                application/json:
                    schema:
                        $ref: "#/components/schemas/login"
        responses:
            '200':
                description: Returns the inserted object
            '401':
                description: Validation error
 * /
router.post("/login", validatorLogin, loginCtrl)
```

```
/**
 * @openapi
 * /api/auth/update/{id}:
   put:
        tags:
        - User
        summary: Update user
        description: Update a user by an admin
        parameters:
           - name: id
               in: path
                description: id that need to be updated
               required: true
                schema:
                    type: string
        requestBody:
            content:
                application/json:
                    schema:
                        $ref: "#/components/schemas/user"
        responses:
            '200':
               description: Returns the inserted object
            '401':
                description: Validation error
        security:
           - bearerAuth: []
router.put("/update/:id", authMiddleware, checkRol(["admin"]), validatorGetUser, validatorUpdate, updateUser)
```

```
/**
 * @openapi
 * /api/auth/users:
 * get:
 *
        tags:
        - User
        summary: Get users in the System
        description: ''
        responses:
            '200':
                description: Returns the users
            '500':
                description: Server error
        security:
            - bearerAuth: []
 * /
router.get("/users", authMiddleware, getUsers)
```

Ejercicio

Documentar con swagger la rutas de "storage" y "tracks"

Jest (unit testing)

Automatización de pruebas unitarias con Jest
 npm i jest supertest --save-dev

Pruebas con **nosql** con *ENGINE_DB* = *nosql* de .**env**

En package.json:

```
"scripts": {
    "test": "jest --forceExit",
    "start": "nodemon start"
    },

Y en app.js (al final)

module.exports = app
```

Jest (unit testing)

En test/app.test.js

```
onst app = require('../app')
  var id = ""
  it('should get the users', async () => {
      expect (response.body.acknowledged).toEqual(true)
```

Jest (unit testing)

Ejercicio:

Completar pruebas unitarias automáticas para el resto de peticiones.