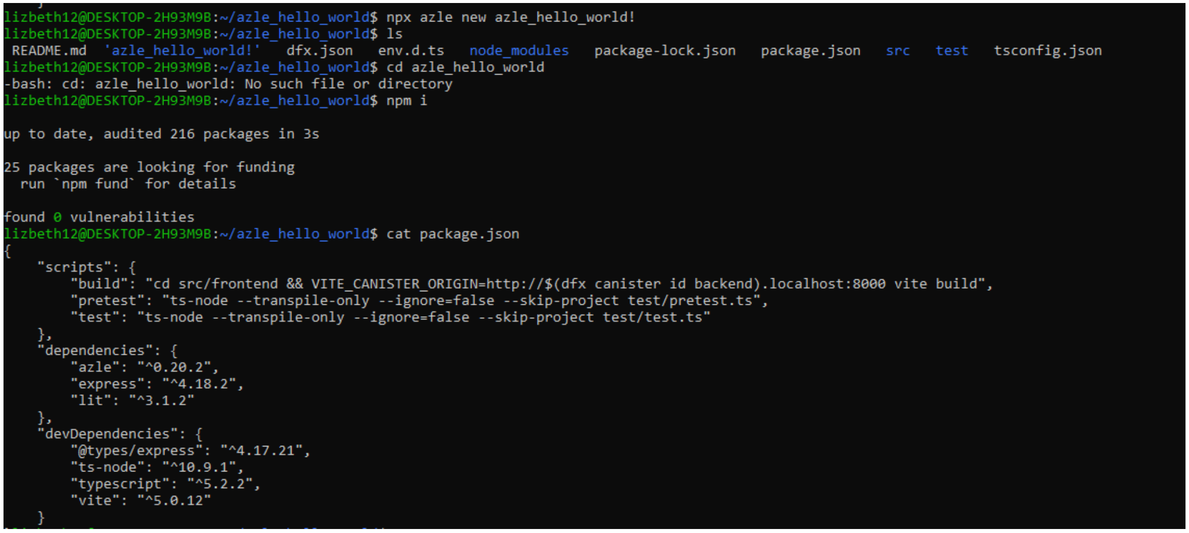
Jessica Velazquez
ICP Azle Developer

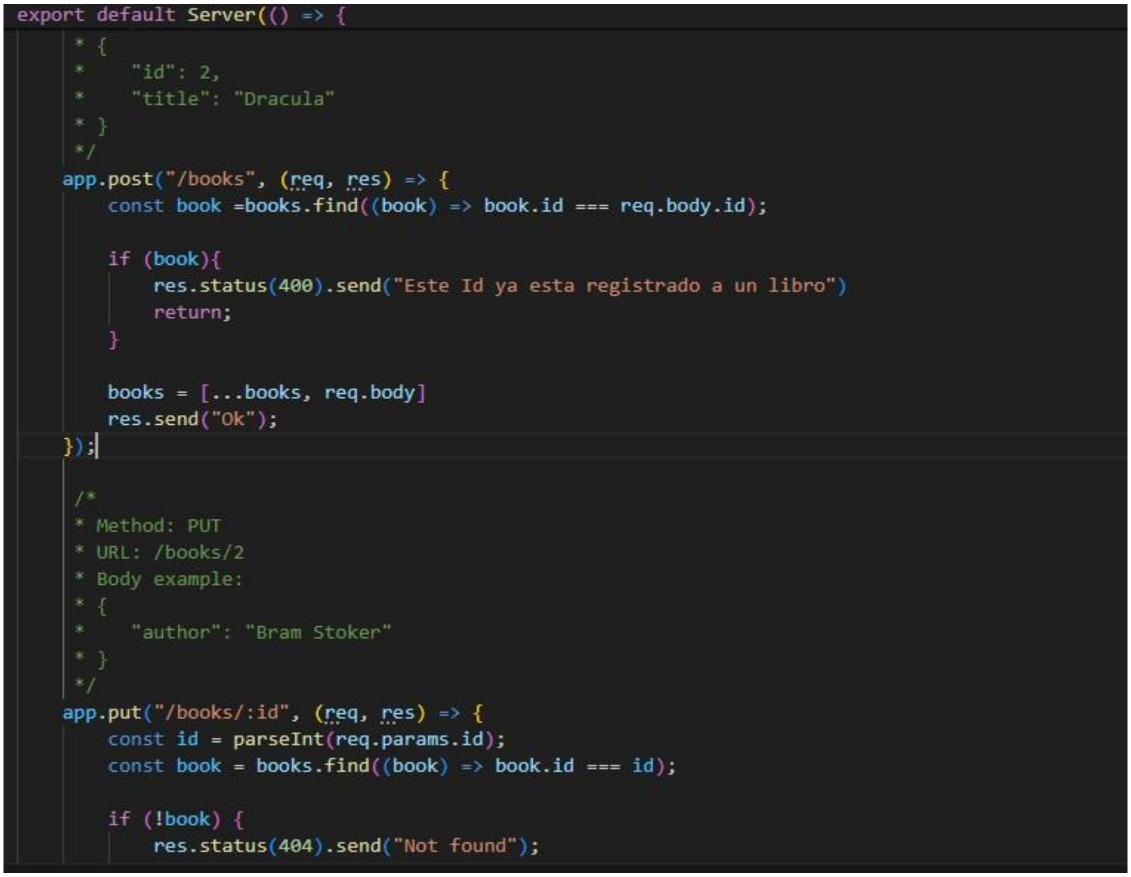
Actividad #3 Miercoles

1. Crear un proyecto nuevo con azle new



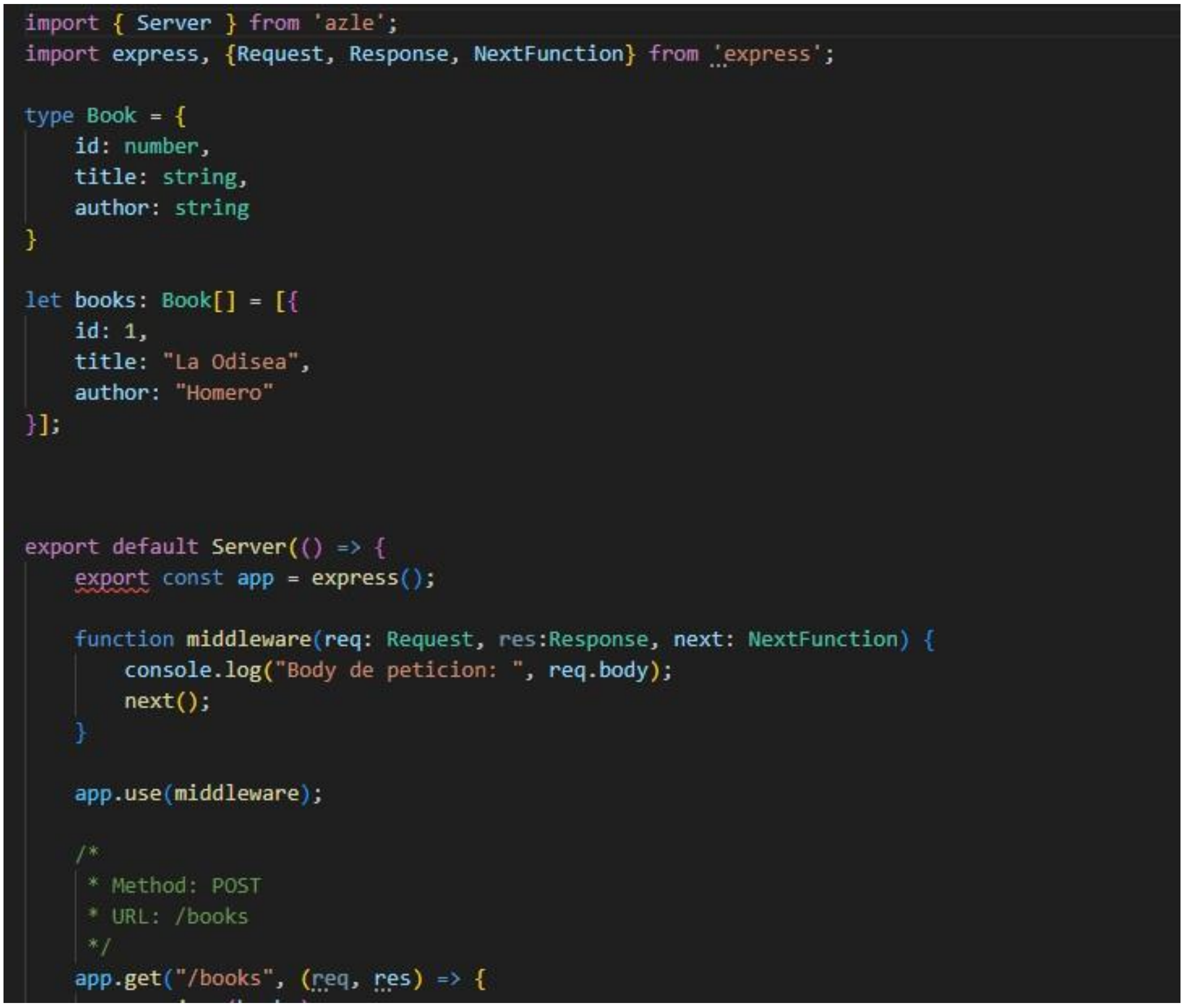
```
lizbeth12@DESKTOP-2H93M9B:~/azle_hello_world$ npx azle new azle_hello_world!
lizbeth12@DESKTOP-2H93M9B:~/azle_hello_world$ ls
 README.md  'azle_hello_world!'   dfx.json   env.d.ts   node_modules   package-lock.json   package.json   src   test   tsconfig.json
lizbeth12@DESKTOP-2H93M9B:~/azle_hello_world$ cd azle_hello_world
-bash: cd: azle_hello_world: No such file or directory
lizbeth12@DESKTOP-2H93M9B:~/azle_hello_world$ npm i

up to date, audited 216 packages in 3s

25 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
lizbeth12@DESKTOP-2H93M9B:~/azle_hello_world$ cat package.json
{
    "scripts": {
        "build": "cd src/frontend && VITE_CANISTER_ORIGIN=http://$(dfx canister id backend).localhost:8000 vite build",
        "pretest": "ts-node --transpile-only --ignore=false --skip-project test/pretest.ts",
        "test": "ts-node --transpile-only --ignore=false --skip-project test/test.ts"
    },
    "dependencies": {
        "azle": "^0.20.2",
        "express": "^4.18.2",
        "lit": "^3.1.2"
    },
    "devDependencies": {
        "@types/express": "^4.17.21",
        "ts-node": "^10.9.1",
        "typescript": "^5.2.2",
        "vite": "^5.0.12"
    }
```

2. Modificar el código para que al llamar al endpoint POST /books valide si ya existe un libro con el id que se está intentando crear, en caso de que exista



```
export default Server(() => {
     * {
     *    "id": 2,
     *    "title": "Dracula"
     * }
     */
    app.post("/books", (req, res) => {
        const book =books.find((book) => book.id === req.body.id);

        if (book){
            res.status(400).send("Este Id ya esta registrado a un libro")
            return;
        }

        books = [...books, req.body]
        res.send("Ok");
    });

     /*
     * Method: PUT
     * URL: /books/2
     * Body example:
     * {
     *    "author": "Bram Stoker"
     * }
     */
    app.put("/books/:id", (req, res) => {
        const id = parseInt(req.params.id);
        const book = books.find((book) => book.id === id);

        if (!book) {
            res.status(404).send("Not found");
```

3. Crear un Middleware que siempre que se llame a la API muestre un log con el body que se está mandando a cualquier endpoint



```
import { Server } from 'azle';
import express, {Request, Response, NextFunction} from 'express';

type Book = {
    id: number,
    title: string,
    author: string
}

let books: Book[] = [{
    id: 1,
    title: "La Odisea",
    author: "Homero"
}];



export default Server(() => {
    export const app = express();

    function middleware(req: Request, res:Response, next: NextFunction) {
        console.log("Body de peticion: ", req.body);
        next();
    }

    app.use(middleware);

    /*
     * Method: POST
     * URL: /books
     */
    app.get("/books", (req, res) => {
```

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