Para la actividad 1 lo voy a añadir algunos testes en una API de una aplicación similar con eh Twitter que está desarrollado en NodeJs para probar la búsqueda del Posts.

1. Creación del proyecto para los tests:

a. Jest install

b. Test Structure

```
✓ act-final

 > config
 > controllers
 > middlewares
 > models
 > node_modules
 > postman ison

✓ tests\unit\controllers

  JS home.controller.test.js
  JS posts.controller.test.js
 .env
 ■ .env.template
 gitignore
 JS app.js
 JS jest.config.js
 {} package-lock.json
 {} package.json
```

2. Implementación de los tests:

```
JS home.controller.test.js ×
fullstack-engineering > Master_web_development > mod-05-Arq-Server > week-04 > act-final > tests > unit > controllers > 15 home.controller.test.js > ...
       const handlers = require('../../controllers/home.controller');
       test('testing home page', () => {
           const req = {}, res = { json: jest.fn() }
           handlers.home(req, res)
           expect(res.json.mock.calls[0][0]).toEqual({ 'app': 'alive' })
JS posts.controller.test.js U 🗙
fullstack-engineering > Master_web_development > mod-05-Arq-Server > week-04 > act-final > tests > unit > controllers > 🥦 posts.controller.test.js > 😚 te
       const handlers = require('../../controllers/posts.controller');
       const model = require('../../models/post.model');
       test('Find posts by ID', () => {
           const spy = jest
               .spyOn(model, "findById")
               .mockResolvedValueOnce({ id: '6bb0794d-3f43-4be8-a267-4dc09315a79e' });
           const req = { params: jest.fn() }, res = { json: jest.fn() }
           handlers.getById(req, res)
           expect(spy).toHaveBeenCalledTimes(1);
           spy.mockRestore();
 28
```

3. Ejecución y Resultados:

```
PS C:\dev\git\fullstack-engineering\Master_web_development\mod-05-Arq-Server\week-04\act-final> npm run test
> act-final@1.0.0 test
> jest --ci
        tests/unit/controllers/home.controller.test.js
        tests/unit/controllers/posts.controller.test.js
                                                                           Uncovered Line #s
File
                                      % Branch
                                                                % Lines
                           % Stmts
                                                    % Funcs
                                                      13.04
                             18.18
                                                                  18.18
 home.controller.js
                               100
                                            100
                                                        100
                                                                     100
                                                                           ... 67,68,70,71,73
Handlebars: Access has been denied to resolve the property "statements" because it is not an "own property" of its parent.
You can add a runtime option to disable the check or this warning:
See https://handlebarsjs.com/api-reference/runtime-options.html#options-to-control-prototype-access for details
Handlebars: Access has been denied to resolve the property "branches" because it is not an "own property" of its parent.
You can add a runtime option to disable the check or this warning:
See https://handlebarsjs.com/api-reference/runtime-options.html#options-to-control-prototype-access for details
Handlebars: Access has been denied to resolve the property "functions" because it is not an "own property" of its parent.
You can add a runtime option to disable the check or this warning:
See https://handlebarsjs.com/api-reference/runtime-options.html#options-to-control-prototype-access for details Handlebars: Access has been denied to resolve the property "lines" because it is not an "own property" of its parent. You can add a runtime option to disable the check or this warning:
See https://handlebarsjs.com/api-reference/runtime-options.html#options-to-control-prototype-access for details
Test Suites: 2 passed, 2 total
Tests:
              2 passed, 2 total
Snapshots:
              0 total
              13,1075
Time:
Ran all test suites.
```

4. Configuración