## MANUAL DE USUARIO - CRUD CON VITE Y JS

- Operaciones CRUD
  - 1. Create
  - 2. Read
  - 3. Update
  - 4. Delete
- 2. Sin frameworks o librerías externas
- 3. Modals
- 4. Mappers
- 5. Clases
- 6. Utilizar conversiones
- 7. Código limpio
- 8. Comprender las funcionalidades básicas de un Restful API de un backend
- 9. Montar un backend de pruebas
- 10. Generar y utilizar un store central para nuestro estado de la aplicación
- 11. Documentación de funciones

Esta sección aplica todo lo aprendido de javascript, que va desde documentación, generación de elementos, async-await, store, fetch y mucho más.

## Preparación de nuestro backend

```
Microsoft Windows [Versión 10.0.19044.3086]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\ASUS>f:
F:\>cd F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript

F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript>
```

```
© C:\Windows\system32\cmd.exe
Microsoft Windows [Versión 10.0.19044.3086]
(c) Microsoft Corporation. Todos los derechos reservados.
C:\Users\ASUS>f:
F:\>cd F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript
F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript>npm create vite@latest
? Project name: » crud-app
```

```
Microsoft Windows [Versión 10.0.19044.3086]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\ASUS>f:
F:\>cd F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript
F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript>npm create vite@latest
/ Project name: ... crud-app
/ Select a framework: » Vanilla
/ Select a variant: » JavaScript

Scaffolding project in F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdeapoyo\materialdejavascript\crud-app...

Done. Now run:

cd crud-app
npm install
npm run dev

F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript>
```

```
Microsoft Windows\system32\cmd.exe
Microsoft Windows [Versión 10.0.19044.3086]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\ASUS>f:
F:\>cd F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript

F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript>npm create vite@latest

/ Project name: ... crud-app
/ Select a framework: » Vanilla
/ Select a variant: » JavaScript

Scaffolding project in F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript\crud-app...

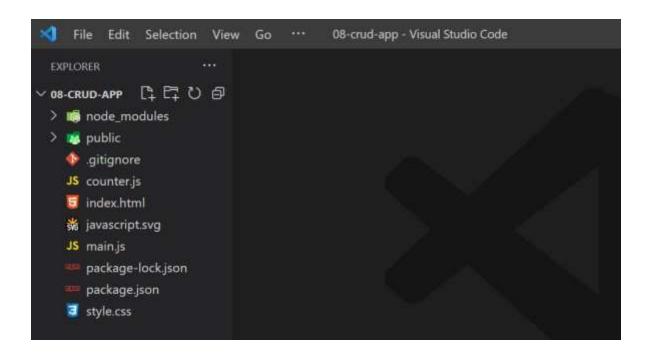
Done. Now run:

cd crud-app
npm install
npm run dev

F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript>cd 08-crud-app/
```

```
:\Users\ASUS>f:
:\>cd F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript
 :\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript>npm create vite@latest
 Project name: ... crud-app
 Select a framework: » Vanilla
 Select a variant: » JavaScript
scaffolding project in F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript\crud-app...
Done. Now run:
 cd crud-app
 npm install
 npm run dev
:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript>cd 08-crud-app/
 :\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript\08-crud-app>npm i
added 8 packages, and audited 9 packages in 5s
 packages are looking for funding
 run `npm fund` for details
found 0 vulnerabilities
 :\JEGU\CURSOS\Sapiencia\materialdeapovo\materialdeiavascript\08-crud-app>
```

```
C:\Windows\system32\cmd.exe
:\>cd F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript
:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript>npm create vite@latest
 Project name: ... crud-app
Select a framework: » Vanilla
Select a variant: » JavaScript
Scaffolding project in F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript\crud-app...
Done. Now run:
 cd crud-app
 npm install
 npm run dev
:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript>cd 08-crud-app/
F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript\08-crud-app>npm i
added 8 packages, and audited 9 packages in 5s
3 packages are looking for funding
 run `npm fund` for details
found 0 vulnerabilities
F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript\08-crud-app>code .
F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript\08-crud-app>
```



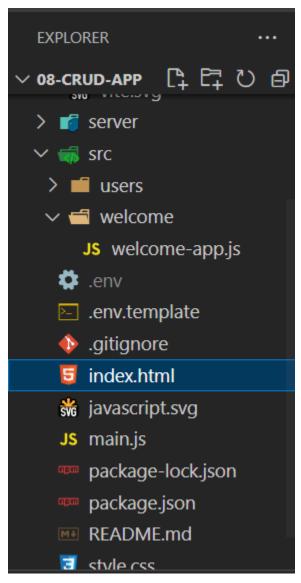
```
JS welcome-app.js X
  EXPLORER
                             src > welcome > JS welcome-a

∨ 08-CRUD-APP

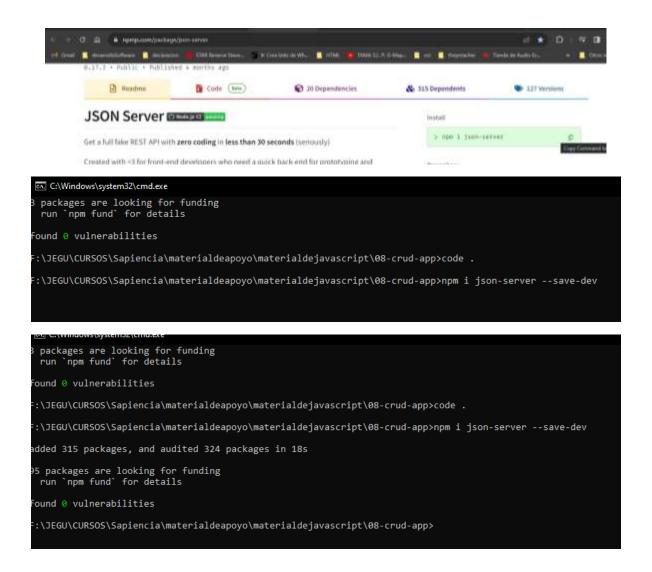
    server
                                 2
                                      /**
    src src
                                 3
      users
                                        @param {HTMLDiv
                                 4
  5
                                 6
                                     export const Welco
      JS welcome-app.js
```

```
/**

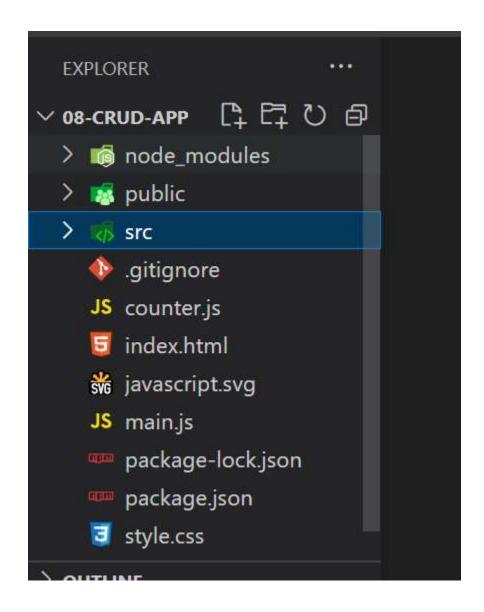
*
    @param {HTMLDivElement} element
    */
export const Welcomeapp = (element) => {
    document.querySelector('#app-title').innerHTML = 'Welcome - Crud App';
    element.innerHTML = 'louding...';
}
```

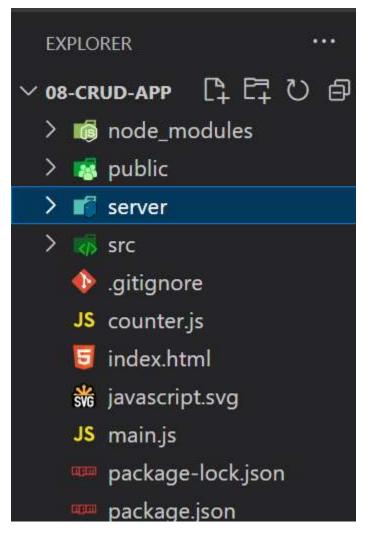


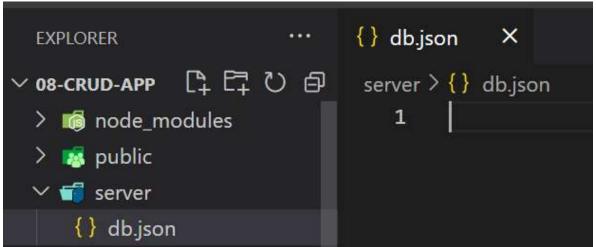
Ir al siguiente enlace: <a href="https://www.npmjs.com/package/json-server">https://www.npmjs.com/package/json-server</a>



```
package.json X
 EXPLORER
∨ 08-CRUD-APP 🖺 🛱 🖰 🗗 🚃 package json > ...
                               1
 > node_modules
                                     "name": "crud-app",
 > 🌉 public
                                     "private": true,
   .gitignore
                                      "version": "0.0.0",
   JS counter.js
                                     "type": "module",
    index.html
                                      Debug
    📸 javascript.svg
                                     "scripts": {
                                        "dev": "vite",
   JS main.js
                                       "build": "vite build",
   package-lock.json
                                       "preview": "vite preview"
   package.json
    style.css
                                     "devDependencies": {
                              11
                                        "json-server": "^0.17.3",
                              12
                                       "vite": "^4.4.0"
OUTLINE
> TIMELINE
```







```
"users": [
   "id": 1,
   "isActive": false,
    "balance": 1397.32,
    "avatar": "http://placehold.it/32x32",
   "first_name": "Ryan",
   "last_name": "Kent",
    "gender": "male"
 },
 {
   "id": 2,
   "isActive": true,
   "balance": 1120.82,
    "avatar": "http://placehold.it/32x32",
   "first_name": "Francine",
   "last_name": "Ingram",
    "gender": "female"
 },
   "id": 3,
   "isActive": true,
    "balance": 2010.88,
   "avatar": "http://placehold.it/32x32",
    "first_name": "Lee",
    "last_name": "Howe",
   "gender": "male"
```

```
"id": 4,
  "isActive": false,
  "balance": 1601.54,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Henry",
  "last name": "Hunt",
  "gender": "male"
},
  "id": 5,
 "isActive": false,
  "balance": 1455.08,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Mia",
  "last_name": "Wade",
  "gender": "female"
},
  "id": 6,
  "isActive": false,
  "balance": 2950.3,
  "avatar": "http://placehold.it/32x32",
  "first name": "Tyler",
  "last_name": "Rocha",
  "gender": "male"
},
  "id": 7,
 "isActive": false,
  "balance": 1985.59,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Harris",
  "last name": "Francis",
  "gender": "male"
},
  "id": 8,
  "isActive": false,
  "balance": 2143.38,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Davis",
  "last_name": "Bean",
  "gender": "male"
},
```

```
"id": 9,
  "isActive": false,
  "balance": 3586.36,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Sheri",
  "last name": "Cox",
  "gender": "female"
},
  "id": 10,
 "isActive": false,
  "balance": 3653.26,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Sweeney",
  "last_name": "Mcintyre",
  "gender": "male"
},
  "id": 11,
  "isActive": true,
  "balance": 2533.26,
  "avatar": "http://placehold.it/32x32",
  "first name": "Fields",
  "last_name": "Harrington",
  "gender": "male"
},
  "id": 12,
  "isActive": false,
  "balance": 1905.22,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Reeves",
  "last name": "Vasquez",
  "gender": "male"
},
  "id": 13,
  "isActive": false,
  "balance": 3990.01,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Amy",
  "last_name": "Leonard",
  "gender": "female"
},
```

```
"id": 14,
  "isActive": false,
  "balance": 2449.31,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Carissa",
  "last name": "Floyd",
  "gender": "female"
},
  "id": 15,
 "isActive": true,
  "balance": 1279.21,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Baird",
  "last_name": "Atkinson",
  "gender": "male"
},
  "id": 16,
  "isActive": false,
  "balance": 3319.73,
  "avatar": "http://placehold.it/32x32",
  "first name": "Cooper",
  "last_name": "Lang",
  "gender": "male"
},
  "id": 17,
  "isActive": false,
  "balance": 3194.49,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Lou",
  "last name": "Fischer",
  "gender": "female"
},
  "id": 18,
  "isActive": true,
  "balance": 3769.4,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Burke",
  "last_name": "Giles",
  "gender": "male"
},
```

```
"id": 19,
  "isActive": false,
  "balance": 3848.76,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Sybil",
  "last name": "Mann",
  "gender": "female"
},
  "id": 20,
 "isActive": false,
  "balance": 1239.99,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Norris",
  "last_name": "Conway",
  "gender": "male"
},
  "id": 21,
  "isActive": true,
  "balance": 3811.6,
  "avatar": "http://placehold.it/32x32",
  "first name": "Hull",
  "last_name": "Love",
  "gender": "male"
},
  "id": 22,
  "isActive": false,
  "balance": 1463.99,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Frankie",
  "last_name": "Hensley",
  "gender": "female"
},
  "id": 23,
  "isActive": false,
  "balance": 2028.55,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Padilla",
  "last_name": "Kane",
  "gender": "male"
},
```

```
"id": 24,
  "isActive": true,
  "balance": 2439.45,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Vazquez",
  "last_name": "Burgess",
  "gender": "male"
},
  "id": 25,
 "isActive": true,
  "balance": 1435.38,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Shields",
  "last_name": "Hudson",
  "gender": "male"
},
  "id": 26,
  "isActive": true,
  "balance": 3730.89,
  "avatar": "http://placehold.it/32x32",
  "first name": "Maureen",
  "last_name": "Bentley",
  "gender": "female"
},
  "id": 27,
  "isActive": true,
  "balance": 3793.75,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Nash",
  "last name": "Hart",
  "gender": "male"
},
  "id": 28,
  "isActive": false,
  "balance": 1553.72,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Florine",
  "last_name": "Holt",
  "gender": "female"
},
```

```
"id": 29,
  "isActive": false,
  "balance": 1196.96,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Lizzie",
  "last name": "Morin",
  "gender": "female"
},
  "id": 30,
 "isActive": true,
  "balance": 1000.5,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Wanda",
  "last_name": "Harper",
  "gender": "female"
},
  "id": 31,
  "isActive": false,
  "balance": 2532.24,
  "avatar": "http://placehold.it/32x32",
  "first name": "Jo",
  "last_name": "Boyle",
  "gender": "female"
},
  "id": 32,
  "isActive": true,
  "balance": 1074.93,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Ellen",
  "last name": "Brewer",
  "gender": "female"
},
  "id": 33,
  "isActive": true,
  "balance": 2264.44,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Kristie",
  "last_name": "King",
  "gender": "female"
},
```

```
"id": 34,
  "isActive": true,
  "balance": 2934.03,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Ruby",
  "last_name": "Yang",
  "gender": "female"
},
  "id": 35,
 "isActive": false,
  "balance": 3358.65,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Marcella",
  "last_name": "Hodges",
  "gender": "female"
},
  "id": 36,
  "isActive": false,
  "balance": 2498.48,
  "avatar": "http://placehold.it/32x32",
  "first name": "Deann",
  "last_name": "Rich",
  "gender": "female"
},
  "id": 37,
  "isActive": true,
  "balance": 3053.05,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Downs",
  "last name": "Yates",
  "gender": "male"
},
  "id": 38,
  "isActive": true,
  "balance": 3514.16,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Noemi",
  "last_name": "Travis",
  "gender": "female"
},
```

```
"id": 39,
  "isActive": true,
  "balance": 3815.99,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Shirley",
  "last name": "Carey",
  "gender": "female"
},
  "id": 40,
 "isActive": true,
  "balance": 1577.63,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Harmon",
  "last_name": "Roy",
  "gender": "male"
},
  "id": 41,
  "isActive": true,
  "balance": 1996.04,
  "avatar": "http://placehold.it/32x32",
  "first name": "Stafford",
  "last_name": "Rios",
  "gender": "male"
},
  "id": 42,
  "isActive": false,
  "balance": 2402.28,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Maynard",
  "last name": "Faulkner",
  "gender": "male"
},
  "id": 43,
  "isActive": false,
  "balance": 3185.14,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Felicia",
  "last_name": "Gamble",
  "gender": "female"
```

```
"id": 44,
  "isActive": true,
  "balance": 2504.33,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Roslyn",
  "last name": "Ford",
  "gender": "female"
},
  "id": 45,
 "isActive": true,
  "balance": 2419.25,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Burks",
  "last_name": "Tate",
  "gender": "male"
},
  "id": 46,
  "isActive": false,
  "balance": 1642.73,
  "avatar": "http://placehold.it/32x32",
  "first name": "Marquez",
  "last_name": "Baxter",
  "gender": "male"
},
  "id": 47,
  "isActive": false,
  "balance": 1322.5,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Spears",
  "last name": "Cunningham",
  "gender": "male"
},
  "id": 48,
  "isActive": false,
  "balance": 1938.58,
  "avatar": "http://placehold.it/32x32",
  "first_name": "Rosemary",
  "last_name": "Foreman",
  "gender": "female"
```

```
"id": 49,
    "isActive": true,
    "balance": 2841.02,
    "avatar": "http://placehold.it/32x32",
    "first_name": "Dianna",
    "last_name": "Bowman",
    "gender": "female"
},
{
    "id": 50,
    "isActive": true,
    "balance": 1174.43,
    "avatar": "http://placehold.it/32x32",
    "first_name": "Mcbride",
    "last_name": "Woodward",
    "gender": "male"
}
]
```

#### Abrir

```
package.json X
 EXPLORER
              package.json > ...
∨ 08-CRUD-APP
  / public
                               1
 > 📑 server
                                      "name": "crud-app",
 > 🦝 src
                                      "private": true,
   .gitignore
                                      "version": "0.0.0",
                                      "type": "module",
   JS counter.js
                                      D Debug
   index.html
                                      "scripts": {
   iavascript.svg
                                        "dev": "vite",
   JS main.js
                                        "build": "vite build",
   package-lock.json
                                        "preview": "vite preview"
                              10
                                      },
   package.json
                                      "devDependencies": {
                              11
    style.css
                                        "json-server": "^0.17.3",
                              12
                                        "vite": "^4.4.0"
                              13
OUTLINE
                              14
> TIMELINE
                              15
```

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```
EXPLORER
                          package json M X
× 08-CRUD-APP 🖺 🛱 ひ 🗊
                           package.json > { } scripts > @ server
 > node_modules
 > public
                                    "name": "crud-app",
                                    "private": true,
 "version": "0.0.0",
    () db-copy ison
                                    "type": "module",
    () db.json
                                    Debug
 > o src
                                    "scripts": [
                                      "dev": "vite",
   gitignore
                                      "build": "vite build",
   JS counter.js
                                      "preview": "vite preview",
   index.html
                                      "server": "json-server server/db.json --port 3001"
                             10
   javascript.svg
```

```
{
    "name": "crud-app",
    "private": true,
    "version": "0.0.0",
    "type": "module",
    "scripts": {
        "dev": "vite",
        "build": "vite build",
        "preview": "vite preview",
        "server": "json-server server/db.json --port 3001"
    },
    "devDependencies": {
        "json-server": "^0.17.3",
        "vite": "^4.4.0"
    }
}
```

```
□ C:\Windows\system32\cmd.exe

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

5 cound ② vulnerabilities

5 :\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript\08-crud-app>code .

6 cound ③ sulnerabilities

7 cound ③ sulnerabilities

8 cound ③ sulnerabilities

9 packages, and audited 324 packages in 18s

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

6 found ② vulnerabilities

7 cound ③ vulnerabilities

7 cound ③ vulnerabilities

7 cound ③ vulnerabilities
```

```
E:\C:\Windows\system32\cmd.exe
F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript\08-crud-app>code .
F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript\08-crud-app>npm i json-server --save-dev
added 315 packages, and audited 324 packages in 18s

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

found 0 vulnerabilities

F:\JEGU\CURSOS\Sapiencia\materialdeapoyo\materialdejavascript\08-crud-app>npm run server

> crud-app@0.0.0 server

> json-server server/db.json --port 3001

\{^_^}/ hi!

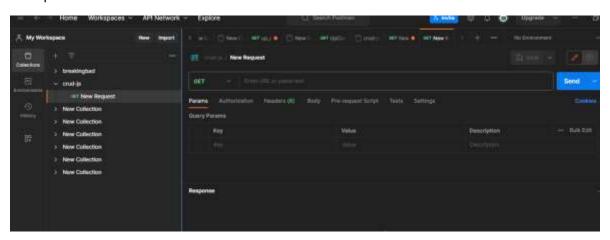
Loading server/db.json
Done

Resources
http://localhost:3001/users

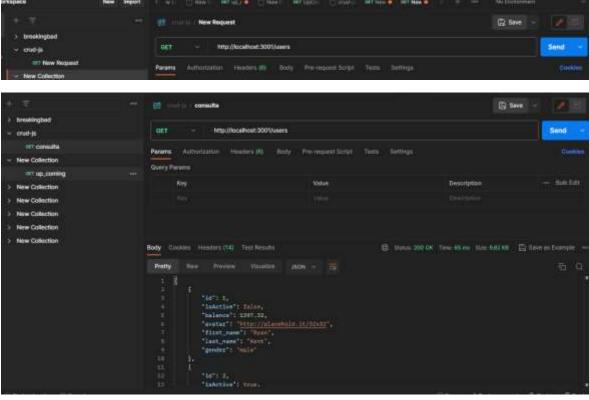
Home
http://localhost:3001

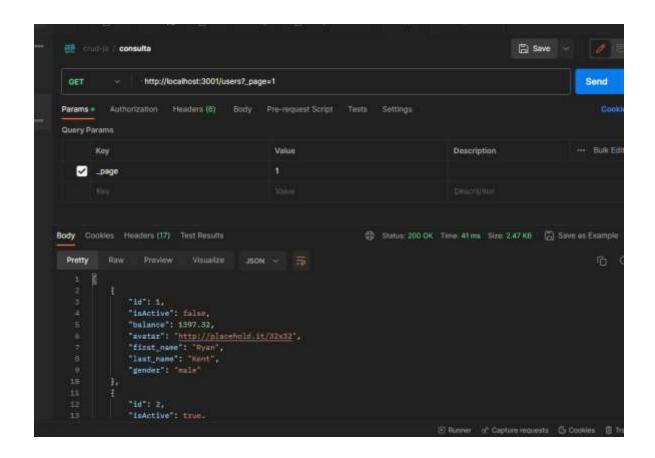
Type s + enter at any time to create a snapshot of the database
```

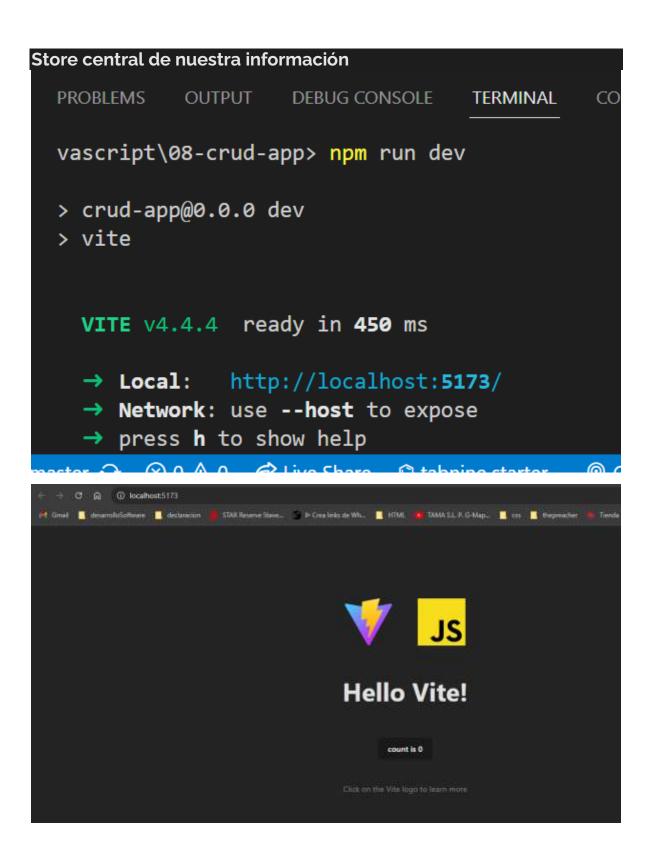
## Abrir postman



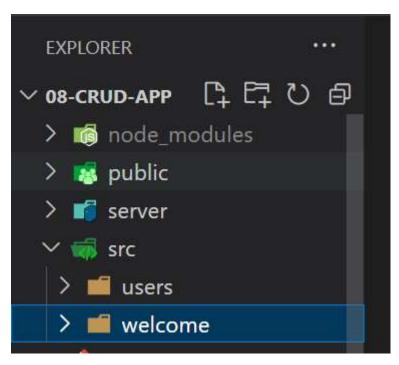








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```
Server

Server

Sign of serve
```

```
/**

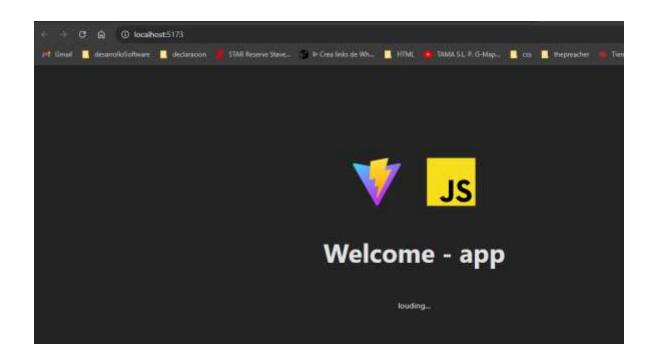
* @param {HTMLDivElement} element

*/
export const Welcomeapp = (element) => {
    document.querySelector('#app-title').innerHTML = 'Welcome - app';
    element.innerHTML = 'louding...';
```

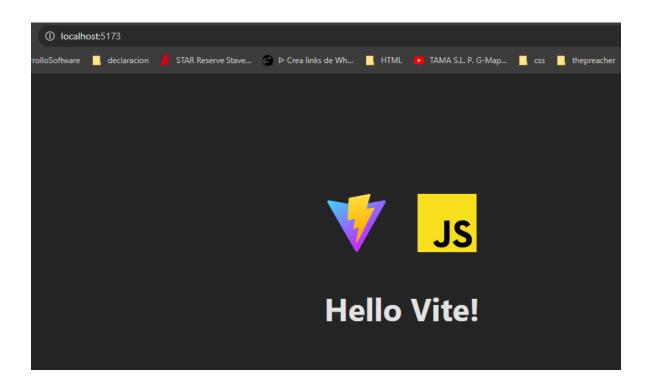
}

## Abrir el main

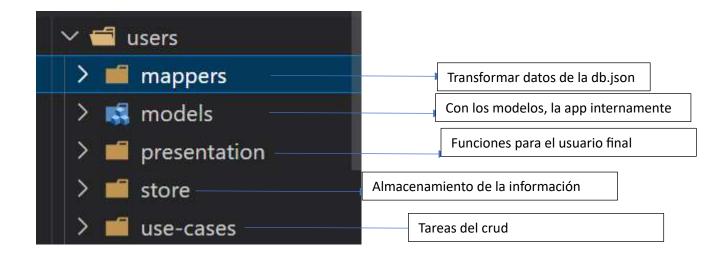
```
import './style.css'
import javascriptLogo from './javascript.svg'
import viteLogo from '/vite.svg'
import { Welcomeapp } from './src/welcome/welcome-app';
document.querySelector('#app').innerHTML = `
  <div>
    <a href="https://vitejs.dev" target="_blank">
      <img src="${viteLogo}" class="logo" alt="Vite logo" />
    </a>
    <a href="https://developer.mozilla.org/en-US/docs/Web/JavaScript"</pre>
target="_blank">
      <img src="${javascriptLogo}" class="logo vanilla" alt="JavaScript</pre>
logo" />
    </a>
    <h1 id="app-title">Hello Vite!</h1>
    <div class="card">
    </div>
  </div>
const element = document.querySelector('.card');
// Welcomeapp(element);
```



#### // Welcomeapp(element);



en la carpeta users, crear los siguientes directorios



#### En la carpeta store crear



```
JS users-store.js X
EXPLORER
08-CRUD-APP 🖺 🗒 🖸
                              src > users > store > JS users-store
V 🧋 src
                                 2
                                      const state = {

✓ 

discrepance

users

                                          currentPage:0,
  > ii mappers
                                          users: [],
                                 4
  > K models
                                 5
  > m presentation
  JS users-store.js
  > ii use-cases
 > 📹 welcome
```

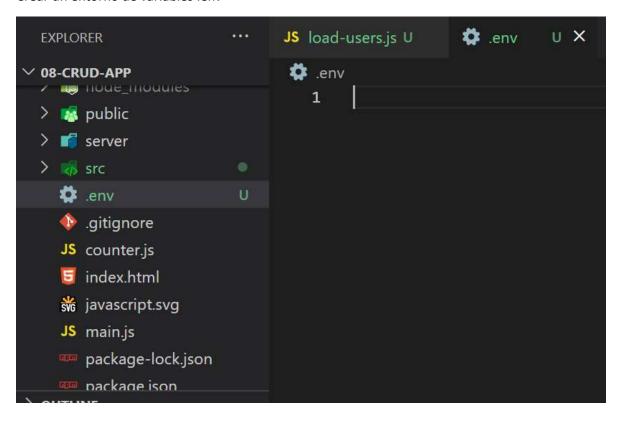
```
const state = {
    currentPage:0,
    users: [],
}
```

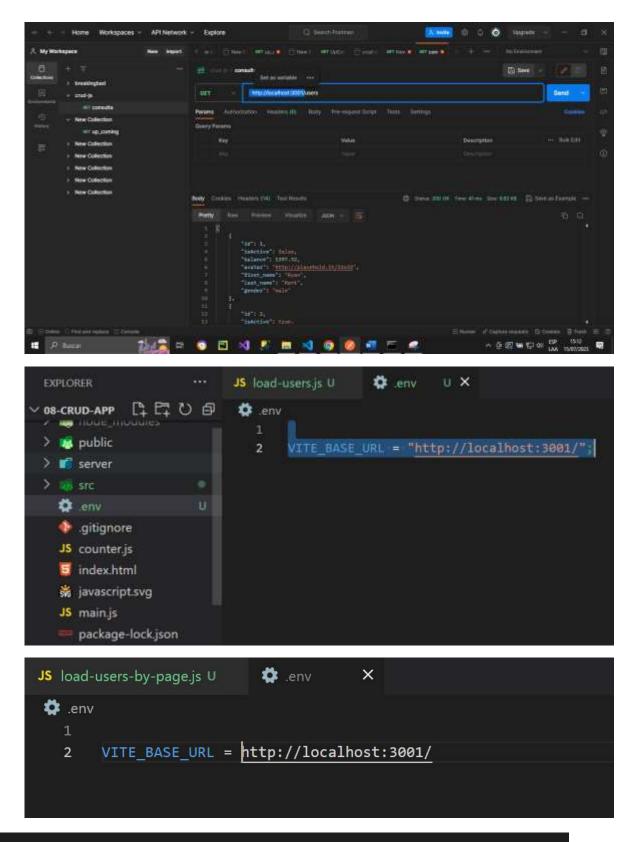
Guía - Asesor Fernando Herrera y adaptación por Jorge Grajales

# Cargar usuarios



#### Crear un entorno de variables .env





```
VITE_BASE_URL = http://localhost:3001/
```

```
D Jenv
EXPLORER
                                                                     .gitignore M X
08-CRUD-APP
                         .gitignore
                               .env
                           1
> 🚜 public
                           server
                               logs
                           5 *.log
  env.
                           6 npm-debug.log*
  env.template
                           7 yarn-debug.log*
  gitignore
                           B yarn-error.log*
  JS counter.js
                          9 pnpm-debug.log*
  index.html
                               lerna-debug.log*
```

#### Renombro el archivo

```
/**

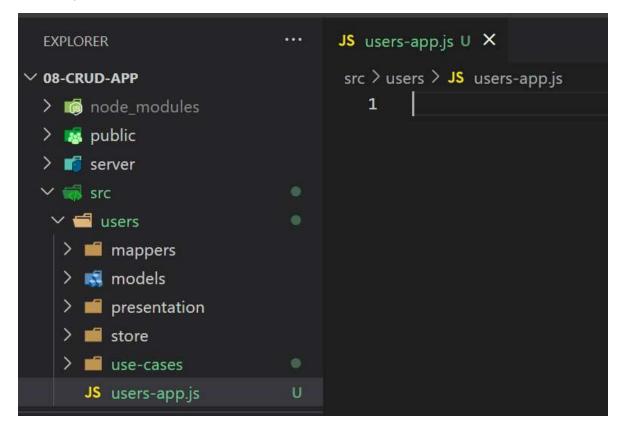
*
    @param {Number} page

* @returns {}

*/
export const loadUsersByPage = async(page = 1) => {
    const url = `${import.meta.env.VITE.BASE_URL}/users?_page=${page}`;
    const res = await fetch(url);
    const data = await res.json();

console.log(data);
};
```

## Ir a la carpeta users



```
JS users-app.js M X
 EXPLORER
                                                JS main.is
∨ 08-CRUD-APP
                             src > users > JS users-app.js > [@] UsersApp

✓ ■ use-cases

                                    import usersStore from "./store/users-store";
   JS load-users-by-page.js
                                2
                               3
     JS users-app is
                               @param {HTMLDivElement} element
  > iii welcome
                                5
   env
   env.template
   .gitignore
                               8
                                    export const UsersApp = async(element) => {
   JS counter is
                               9
                                        element.innerHTML = 'loading...';
   index.html
                              10
                                        await usersStore.loadNextPage();
                              11
   👸 javascript.svg
   JS main.js
                               13
                                    };
OUTLINE
```

```
import usersStore from "./store/users-store";
/**

* @param {HTMLDivElement} element

*/

export const UsersApp = async(element) => {
    element.innerHTML = 'loading...';
    await usersStore.loadNextPage();
};
```

#### Abrir el main

```
<img src="${javascriptLogo}" class="logo vanilla" alt="JavaScript</pre>
logo" />
     </a>
     <h1 id="app-title">Hello Vite!</h1>
     <div class="card">
     </div>
  </div>
const element = document.querySelector('.card');
// Welcomeapp(element);
UsersApp(element);
                                                                                             Q # # D
 loSoftware 📘 declaración 🍺 STAIL Reserve Stave... 🥞 🗈 Crea lielos de Who. 🧧 HTML 😕 TAMA S.L.P. G-Majo... 👢 cos 👢 theprescher 🐞 Tienda de Audio Esc.
                                                                    E Et Elements Console >>
                                                                    1 Issue: 1

    Uncaught (in promise) Error: No
implementado

                                                                        at Object.loadNextPage (users-store.is:8
at UsersApp (users-app.is:11:22)
at main.is:25:1
               Hello Vite!
                       loading...
```

Ir al users-store.js

```
const state = {
    currentPage:0,
    users: [],
}

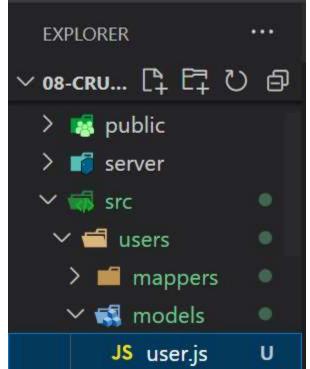
const loadNextPage = async () => {
    // throw new Error ('No implementado');
    // llamar la función loadNextPage
    await loadUsersByPage(state.currentPage+1);
}

const loadPreviousPage = async () => {
    throw new Error ('No implementado');
}
```

```
const onUserChanged = async () => {
    throw new Error ('No implementado');
}
const reloadPage = async () => {
    throw new Error ('No implementado');
}
export default {
    loadNextPage,
    loadPreviousPage,
    onUserChanged,
    reloadPage,

    getUser: () => [...state.users],
    getCurrentPage: () => state.currentPage,
}
```

# User Model y problemas relacionados



```
export class User {
```

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```
Mappers
                                    ··· JS localhost-user.mapper.js X
  EXPLORER
                          口口 の src > users > mappers > JS loca
 ✓ 08-CRUD-APP
                                                  import { User } for
  1

✓ 

mappers

        JS localhost-user.mapper.js
import { User } from "../models/user"
 * @param {Like<User>} localhostUser
 * @returns {User}
export const localhostUserToModel = ( localhostUser ) => {
   const {
       avatar,
```

```
first_name,
         gender,
         id,
         isActive,
         last name,
    } = localhostUser;
    return new User({
         avatar,
         balance,
         firstName: first_name,
         gender,
         id,
         isActive,
         lastName: last_name,
    });
                   ··· JS load-users-by-page.js X
 ∨ os-crup-... [注目ひ日 src〉users〉use-cases〉JS load-users-by-pagejs〉...
     > mill render-table

✓ ■ store

                                 Mparam (Number) page
       JS users-store.js
                                 @returns ( Promise(User[]> }

✓ use-cases

       JS delete-user-by-
                          9 export const loadUsersByPage = async( page = 1 ) => {
    JS get-user-by-id is
       JS load-users-by-...
                                const url = $( import
const res = await fetch(url);
const data = await res.json();
                                    const url = '${ import.meta.env.VITE BASE URL }/users?
       JS save-user.js
      JS users-app.js
   > m welcome
                                    const users = data.map( localhostUserToModel );
    env env
 OUTLINE
                                    return users;
 > TIMELINE
import { localhostUserToModel } from '../mappers/localhost-user.mapper';
import { User } from '../models/user';
 * @param {Number} page
 * @returns { Promise<User[]> }
export const loadUsersByPage = async( page = 1 ) => {
```

const url = `\${ import.meta.env.VITE\_BASE\_URL }/users? page=\${ page }`;

balance,

```
const res = await fetch(url);
const data = await res.json();

const users = data.map( localhostUserToModel );

return users;
}
```

### Actualizar nuestro Store



```
import { loadUsersByPage } from "../use-cases/load-users-by-page";

const state = {
    currentPage: 0,
    users: [],
}

const loadNextPage = async() => {
    const users = await loadUsersByPage( state.currentPage + 1 );
    if ( users.length === 0 ) return;

    state.currentPage += 1;
    state.users = users;
}

const loadPreviousPage = async() => {
    if ( state.currentPage === 1 ) return;
    const users = await loadUsersByPage( state.currentPage - 1 );
    state.users = users;
```

```
state.currentPage -= 1;
 * @param {User} updatedUser
const onUserChanged = (updatedUser) => {
    let wasFound = false;
    state.users = state.users.map( user => {
        if ( user.id === updatedUser.id ) {
            wasFound = true;
            return updatedUser;
        return user;
    });
    if ( state.users.length < 10 && !wasFound ) {</pre>
        state.users.push( updatedUser );
const reloadPage = async() => {
    const users = await loadUsersByPage( state.currentPage );
    if ( users.length === 0 ) {
        await loadPreviousPage();
        return;
    state.users = users;
export default {
    loadNextPage,
    loadPreviousPage,
    onUserChanged,
    reloadPage,
     * @returns {User[]}
```

```
getUsers: () => [...state.users],
* @returns {Number}
getCurrentPage: () => state.currentPage,
                              JS users-app.js X
   EXPLORER
∨ 08-CRUD-... 📭 📴 🖰 🖯 🗗 src > users > JS u
                                       import
                                  1
         JS users-store.js
                                  2 import
       d use-cases
                                  3 import
         JS delete-user-by-...
                                  4 import
                                  5 import
         JS get-user-by-id.js
         JS load-users-by-...
                                        import
         JS save-user.js
                                  8
        JS users-app.js
```

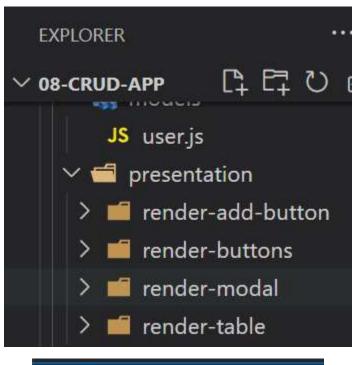
```
import usersStore from './store/users-store';
import { renderTable } from './presentation/render-table/render-table';
import { renderButtons } from './presentation/render-buttons/render-
buttons';
import { renderAddButton } from './presentation/render-add-button/render-
add-button';
import { renderModal } from './presentation/render-modal/render-modal';
import { saveUser } from './use-cases/save-user';

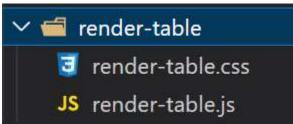
/**
    * @param {HTMLDivElement} element
    */
export const UsersApp = async( element ) => {
        element.innerHTML = 'Loading...';
}
```

```
await usersStore.loadNextPage();
  element.innerHTML = '';

renderTable( element );
  renderButtons( element );
  renderAddButton( element );
  renderModal( element, async( userLike ) => {
     const user = await saveUser( userLike );
     usersStore.onUserChanged( user );
     renderTable();
  });
```

### Crear una tabla HTML con los usuarios





#### Render-table.js

```
JS render-table.js X
EXPLORER
                           src > users > presentation >
08-CRUD-APP
                                  import usersSto
                              1
     JS user.js
                                  2
 import { delete
   > render-add-button
                                  import './rende
                              4
   > iii render-buttons
                                  let table;
                              6
   > 📹 render-modal
  const createTal
                              8
      render-table.css
                                   const table
                              9
      JS render-table.js
                             10
                                     const table
```

```
import usersStore from '../../store/users-store';
import { showModal } from '../render-modal/render-modal';
import { deleteUserById } from '../../use-cases/delete-user-by-id'
import './render-table.css';
let table;
const createTable = () => {
   const table = document.createElement('table');
   const tableHeaders = document.createElement('thead');
   tableHeaders.innerHTML = `
       #ID
          Balance
          FistName
          LastName
          Active
          Actions
       const tableBody = document.createElement('tbody');
   table.append( tableHeaders, tableBody )
   return table;
```

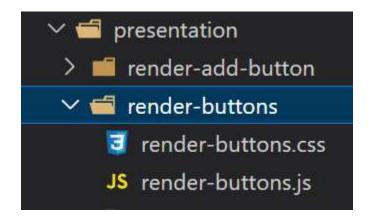
```
* @param {MouseEvent} event
const tableSelectListener = (event) => {
    const element = event.target.closest('.select-user');
   if (!element) return;
    const id = element.getAttribute('data-id');
    showModal(id);
 * @param {MouseEvent} event
const tableDeleteListener = async(event) => {
    const element = event.target.closest('.delete-user');
   if (!element) return;
    const id = element.getAttribute('data-id');
    try {
        await deleteUserById(id);
        await usersStore.reloadPage();
        document.querySelector('#current-page').innerText =
usersStore.getCurrentPage();
        renderTable();
    } catch (error) {
        console.log(error);
        alert('No se pudo eliminar');
    }
 * @param {HTMLDivElement} element
export const renderTable = ( element ) => {
    const users = usersStore.getUsers();
    if ( !table ) {
```

```
table = createTable();
       element.append( table );
       table.addEventListener('click', tableSelectListener );
       table.addEventListener('click', tableDeleteListener );
   let tableHTML = '';
   users.forEach( user => {
       tableHTML += `
          ${ user.id }
              ${ user.balance }
              ${ user.firstName }
              ${ user.lastName }
              ${ user.isActive }
              <a href="#/" class="select-user" data-id="${ user.id</pre>
}">Select</a>
                  <a href="#/" class="delete-user" data-id="${ user.id</pre>
}">Delete</a>
              });
   table.querySelector('tbody').innerHTML = tableHTML;
```

```
😈 render-table css 🛛 🛪
 EXPLORER
              中の計却
                            src > users > presentation > render-table >
∨ 08-CRUD-APP
      JS user.js
                                   table {
   background-color: □rgl
    > m render-add-button
                                       border-radius: 5px;
    > render-buttons
                                       padding: 5px;
    > i render-modal
                               6
    render-table.css
```

```
table {
    background-color: rgba(0, 0, 0, 0.348);
    border-radius: 5px;
    padding: 5px;
}
```

# Botones - Next, Prev y página actual Funcionalidad de los botones



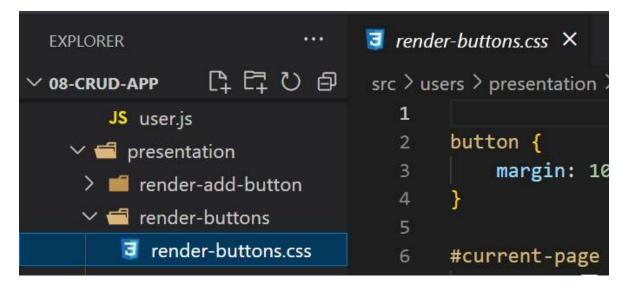
```
JS render-buttons.js X
  EXPLORER
               に で src > users > presentation

✓ 08-CRUD-APP

                                     import usersS
                                 1
       JS user.js
                                     import { rend
                                 2
   import './rer
    > ii render-add-button
                                 4
    render-buttons
        render-buttons.css
        JS render-buttons.js
                                        @param {H]
```

```
import usersStore from '../../store/users-store';
import { renderTable } from '../render-table/render-table';
import './render-buttons.css';
 * @param {HTMLDivElement} element
export const renderButtons = ( element ) => {
    const nextButton = document.createElement('button');
    nextButton.innerText = ' Next >';
    const prevButton = document.createElement('button');
    prevButton.innerText = '< Prev ';</pre>
    const currentPageLabel = document.createElement('span');
    currentPageLabel.id = 'current-page'
    currentPageLabel.innerText = usersStore.getCurrentPage();
    element.append( prevButton, currentPageLabel, nextButton );
    nextButton.addEventListener('click', async() => {
        await usersStore.loadNextPage();
        currentPageLabel.innerText = usersStore.getCurrentPage();
        renderTable( element );
    });
```

```
prevButton.addEventListener('click', async() => {
        await usersStore.loadPreviousPage();
        currentPageLabel.innerText = usersStore.getCurrentPage();
        renderTable( element );
    });
}
```



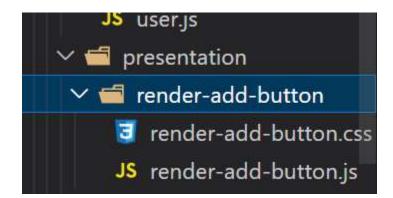
```
button {
    margin: 10px;
}

#current-page {
    color: white !important;
    font-size: 1.3rem;
    margin-left: 10px;
    margin-right: 10px;
}
```

```
import { loadUsersByPage } from "../use-cases/load-users-by-page";
const state = {
    currentPage: 0,
    users: [],
const loadNextPage = async() => {
    const users = await loadUsersByPage( state.currentPage + 1 );
    if ( users.length === 0 ) return;
    state.currentPage += 1;
    state.users = users;
const loadPreviousPage = async() => {
    if ( state.currentPage === 1 ) return;
    const users = await loadUsersByPage( state.currentPage - 1 );
    state.users = users;
    state.currentPage -= 1;
 * @param {User} updatedUser
const onUserChanged = (updatedUser) => {
```

```
let wasFound = false;
    state.users = state.users.map( user => {
        if ( user.id === updatedUser.id ) {
            wasFound = true;
            return updatedUser;
        return user;
    });
    if ( state.users.length < 10 && !wasFound ) {</pre>
        state.users.push( updatedUser );
const reloadPage = async() => {
    const users = await loadUsersByPage( state.currentPage );
    if ( users.length === 0 ) {
        await loadPreviousPage();
        return;
    state.users = users;
export default {
    loadNextPage,
    loadPreviousPage,
    onUserChanged,
    reloadPage,
    * @returns {User[]}
    getUsers: () => [...state.users],
    * @returns {Number}
    getCurrentPage: () => state.currentPage,
```

### **Botón flotante**



```
JS render-add-button.js X
  EXPLORER
                 口口 の src > users > presentation >

✓ 08-CRUD-APP

    mappers
                                        import { showMo
                                   1
    models
                                        import './rende
                                   2
       JS user.js
                                   4

presentation

✓ 

✓ render-add-button

                                   6
                                        * @param {HTML
         render-add-button.css
        JS render-add-button.js
                                   8
                                        export const re
```

```
import { showModal } from '../render-modal/render-modal';
import './render-add-button.css';

/**
    * @param {HTMLDivElement} element
    */
export const renderAddButton = ( element ) => {

    const fabButton = document.createElement('button');
    fabButton.innerText = '+';
    fabButton.classList.add('fab-button');

    element.append( fabButton );
```

```
//TODO:
    fabButton.addEventListener('click', () =>{
        showModal();
    });
}
```

```
😈 render-add-button.css 🗙
                   EXPLORER
                                                                                                                                                                  src > users > presentation >
∨ 08-CRUD-APP
                                        mappers
                                                                                                                                                                                                                                                                                                                                                1
                                      🗸 📢 models
                                                                                                                                                                                                                                                                                                                                                2
                                                                       JS user.js
                                                                                                                                                                                                                                                                                                                                                                                               .fab-button {
                                                                                                                                                                                                                                                                                                                                                                                                                                       position: f
                                                                                                                                                                                                                                                                                                                                                4
                                      bottom: 20p

✓ 

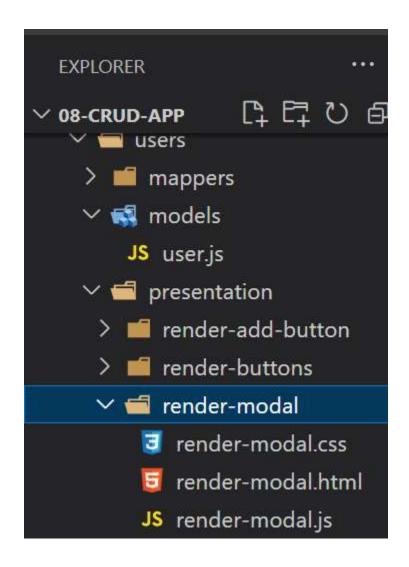
render-add-button

rend
                                                                                                                                                                                                                                                                                                                                                                                                                                       right: 20px
                                                                                                                                                                                                                                                                                                                                                6
                                                                                    render-add-button.css
```

```
.fab-button {
   position: fixed;
   bottom: 20px;
   right: 20px;
}
```

### Crear modal manualmente

https://gist.github.com/Klerith/d6bc5662c8a99da409468eadb676497f#file-render-modal-html



```
፱ render-modal.html ×
 EXPLORER
                口口 の src > users > presentation

✓ 08-CRUD-APP

   users
                                       <div class="m
                                  1
   > ii mappers
                                           <form nov
                                  2

✓ 

models

                                                < span
                                                <inpu
                                  4
       JS user.js
                                                <inpu
                                  5
   <inpu
                                  6
     > ii render-add-button
                                  7
     > render-buttons
                                                <div>
                                  8

✓ 

render-modal

                                  9
        render-modal.css
                                 10
                                                </div
        render-modal.html
                                 11
```

```
render-modal.css X
  EXPLORER
                                src > users > presentation

✓ 08-CRUD-APP

   users 📨
                                        .hide-modal {
    > 📹 mappers
                                            display: n

✓ 

models

                                   4
       JS user.js
                                        .modal-contain
   position:
     > render-add-button
                                            top: 0px;
     > iii render-buttons
                                            left: 0px;
                                   8

✓ 

render-modal

                                            width: 100
                                   9
        render-modal.css
                                            height: 10
                                  10
```

```
.hide-modal {
    display: none !important;
.modal-container {
    position: fixed;
   top: 0px;
   left: 0px;
   width: 100vw;
   height: 100vh;
   display: flex;
    justify-content: center;
    align-items: center;
    background-color: rgba(0, 0, 0, 0.5);
.modal-dialog {
    background-color: white;
   border-radius: 5px;
    padding: 10px;
    box-shadow: 0px 5px 15px rgba(255, 255, 255, 0.2);
form {
    display: flex;
```

```
flex-direction: column;
  align-items: start;
}
input {
   margin-bottom: 10px;
   padding: 5px;
}
span, label {
   color: black;
}
```

```
JS render-modal.js X
 EXPLORER
                口口 の src > users > presentatio

✓ 08-CRUD-APP

     users
                                       import modal
                                  1
   > iii mappers
                                       import { Use
                                  2

✓ 

models

                                       import { get
                                  3
                                  4
       JS user.js
                                       import './re
                                  5
   6
    > iii render-add-button
                                  7
                                       let modal, f
    > iii render-buttons
                                       let loadedUs
                                  8
    ∨ 📹 render-modal
        render-modal css
                                 10
                                 11
        render-modal.html
                                 12
                                          @param {S
        JS render-modal.js
```

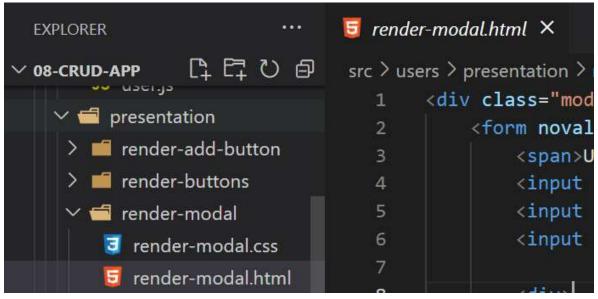
```
import modalHtml from './render-modal.html?raw';
import { User } from '../../models/user';
import { getUserById } from '../../use-cases/get-user-by-id';
import './render-modal.css';
let modal, form;
```

```
let loadedUser = {};
 * @param {String|Number} id
export const showModal = async( id ) => {
    modal?.classList.remove('hide-modal');
    loadedUser = {};
    if (!id) return;
    const user = await getUserById( id );
    setFormValues(user);
export const hideModal = () => {
    modal?.classList.add('hide-modal');
    form?.reset();
 * @param {User} user
const setFormValues = ( user ) => {
    form.querySelector('[name="firstName"]').value = user.firstName;
    form.querySelector('[name="lastName"]').value = user.lastName;
    form.querySelector('[name="balance"]').value = user.balance;
    form.querySelector('[name="isActive"]').checked = user.isActive;
    loadedUser = user;
 * @param {HTMLDivElement} element
 * @param {(userLike)=> Promise<void> } callback
export const renderModal = ( element, callback ) => {
    if ( modal ) return;
    modal = document.createElement('div');
```

```
modal.innerHTML = modalHtml;
modal.className = 'modal-container hide-modal';
form = modal.querySelector('form');
modal.addEventListener('click', (event) => {
   if ( event.target.className === 'modal-container' ) {
        hideModal();
});
form.addEventListener('submit', async(event) => {
    event.preventDefault();
    const formData = new FormData( form );
    const userLike = { ...loadedUser };
   for (const [key, value] of formData) {
        if ( key === 'balance' ){
           userLike[key] = +value;
           continue;
        if ( key === 'isActive' ) {
            userLike[key] = (value === 'on') ? true : false;
            continue;
       userLike[key] = value;
   // console.log(userLike);
   await callback( userLike );
   hideModal();
});
element.append( modal );
```

# Crear modal manualmente y Comportamiento esperado del modal





```
render-modal.css X
   EXPLORER
                      口口 の src > users > presentation

∨ 08-CRUD-APP

                                                   .hide-modal
                                             1
        presentation
                                                        display:
                                             2
       > ii render-add-button
       > iii render-buttons
                                             4
                                                   .modal-contai

✓ 

render-modal

                                                        position:
                                             6
            render-modal.css
.hide-modal {
   display: none !important;
.modal-container {
   position: fixed;
   top: 0px;
   left: 0px;
   width: 100vw;
   height: 100vh;
   display: flex;
   justify-content: center;
   align-items: center;
   background-color: rgba(0, 0, 0, 0.5);
.modal-dialog {
   background-color: white;
   border-radius: 5px;
   padding: 10px;
   box-shadow: 0px 5px 15px rgba(255, 255, 255, 0.2);
form {
   display: flex;
   flex-direction: column;
   align-items: start;
```

```
input {
    margin-bottom: 10px;
    padding: 5px;
}
span, label {
    color: black;
}
```

```
JS render-modal.js X
EXPLORER
             src > users > presentation >
08-CRUD-APP
     usci.js
                                  import modalHtm
                              1
 import { User }
                              2
   > render-add-button
                                  import { getUse
   > render-buttons
                              4
   🗸 📹 render-modal
                                  import './rende
                              6
      render-modal.css
                                 let modal, form
      render-modal.html
                                  let loadedUser
      JS render-modal.js
```

```
import modalHtml from './render-modal.html?raw';
import { User } from '../../models/user';
import { getUserById } from '../../use-cases/get-user-by-id';
import './render-modal.css';
let modal, form;
let loadedUser = {};

/**
    * @param {String|Number} id
    */
```

```
export const showModal = async( id ) => {
    modal?.classList.remove('hide-modal');
    loadedUser = {};
    if (!id ) return;
    const user = await getUserById( id );
    setFormValues(user);
export const hideModal = () => {
    modal?.classList.add('hide-modal');
    form?.reset();
 * @param {User} user
const setFormValues = ( user ) => {
    form.querySelector('[name="firstName"]').value = user.firstName;
    form.querySelector('[name="lastName"]').value = user.lastName;
    form.querySelector('[name="balance"]').value = user.balance;
    form.querySelector('[name="isActive"]').checked = user.isActive;
    loadedUser = user;
 * @param {HTMLDivElement} element
 * @param {(userLike)=> Promise<void> } callback
export const renderModal = ( element, callback ) => {
    if ( modal ) return;
    modal = document.createElement('div');
    modal.innerHTML = modalHtml;
    modal.className = 'modal-container hide-modal';
    form = modal.querySelector('form');
    modal.addEventListener('click', (event) => {
```

```
if ( event.target.className === 'modal-container' ) {
        hideModal();
});
form.addEventListener('submit', async(event) => {
    event.preventDefault();
   const formData = new FormData( form );
    const userLike = { ...loadedUser };
   for (const [key, value] of formData) {
        if ( key === 'balance' ){
           userLike[key] = +value;
            continue;
        if ( key === 'isActive' ) {
            userLike[key] = (value === 'on') ? true : false;
            continue;
       userLike[key] = value;
   // console.log(userLike);
   await callback( userLike );
   hideModal();
});
element.append( modal );
```

#### Caso de uso - Crear usuario

```
JS save-user.js X
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                                       import
                                  1
    import
                                  2
       JS delete-user-by-id.js
                                       import
                                  3
       JS get-user-by-id.js
       JS load-users-by-page.js
                                  5
       JS save-user.js
```

```
return localhostUserToModel( userUpdated );
 * @param {Like<User>} user
const createUser = async( user ) => {
   const url = `${ import.meta.env.VITE_BASE_URL }/users`;
   const res = await fetch(url, {
       method: 'POST',
       body: JSON.stringify(user),
       headers: {
            'Content-Type': 'application/json'
   });
   const newUser = await res.json();
   console.log({ newUser });
   return newUser;
 * @param {Like<User>} user
const updateUser = async( user ) => {
   const url = `${ import.meta.env.VITE_BASE_URL }/users/${ user.id }`;
   const res = await fetch(url, {
       method: 'PATCH',
       body: JSON.stringify(user),
       headers: {
            'Content-Type': 'application/json'
   });
   const updatedUser = await res.json();
    console.log({ updatedUser });
   return updatedUser;
```

```
}
```

```
JS get-user-by-id.js X
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    > M models
                                              export const
                                         9
      presentation
                                        10
        store
                                        11
                                                  const ur.
    const res
                                        12
       JS delete-user-by-id.js
                                        13
                                                  const dat
                                        14
       JS get-user-by-id.js
```

## Mapper - userModelToLocalhost

```
JS user-to-localhost.mapper.js X
 EXPLORER
                       日の日却
                                      src > users > mappers > JS user-to
∨ 08-CRUD-APP
     wite.svg
                                              export const userMod
  > 📝 server
 ∨ 🦏 src
                                                   const {
  10
                                                       avatar,

✓ 

mappers

                                        11
                                                       balance,
       JS localhost-user.mapper.js
                                        12
                                                       firstName,
       JS user-to-localhost.mapper.js
                                        13
                                                       gender,
```

```
import { User } from '../models/user';
 * @param {User} user
export const userModelToLocalhost = ( user ) => {
    const {
        avatar,
        balance,
        firstName,
        gender,
        id,
        isActive,
        lastName,
    } = user;
    return {
        avatar,
        balance,
        first_name: firstName,
        gender,
        id,
        isActive,
        last_name: lastName,
```

}

# Eliminar un usuario

```
/**
 * @param {String|Number} id
 */
export const deleteUserById = async( id ) => {
    const url = `${ import.meta.env.VITE_BASE_URL }/users/${ id }`;
    const res = await fetch(url, {
        method: 'DELETE',
    });
    const deleteResult = await res.json();
    console.log({ deleteResult });
    return true;
}
```

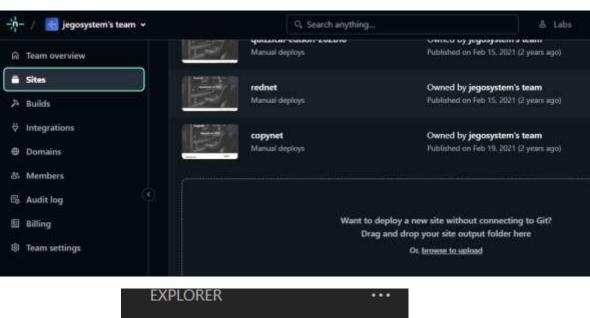
## Desplegar la app

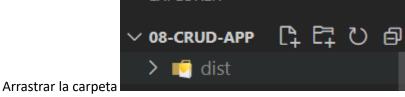
#### En la terminal del vsc

```
> npm run build
> crud-app@0.0.0 build
> vite build
vite v4.4.4 building for production...

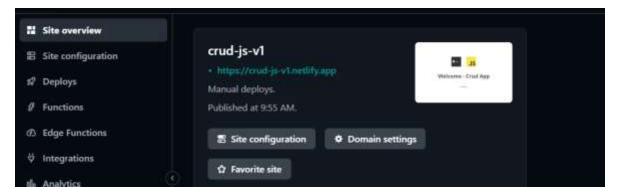
√ 25 modules transformed.

dist/index.html
                                     0.45 kB
                                               gzip: 0.30 kB
dist/assets/javascript-8dac5379.svg 1.00 kB
                                               gzip: 0.60 kB
dist/assets/index-e5e2f849.css
                                     1.86 kB
                                               gzip: 0.88 kB
dist/assets/index-830f7ef2.js
                                     6.82 kB
                                               gzip: 2.43 kB
```

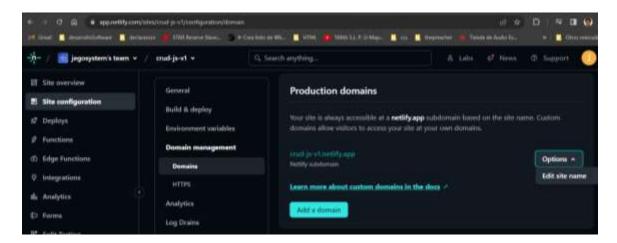




al netlify para desplegar todo



El domain se edito en domain setting, para cambiar la url



https://crud-js-v1.netlify.app/

se agregó un nuevo user para probar



Guía - Asesor Fernando Herrera y adaptación por Jorge Grajales

Códigos Terminado y probados