

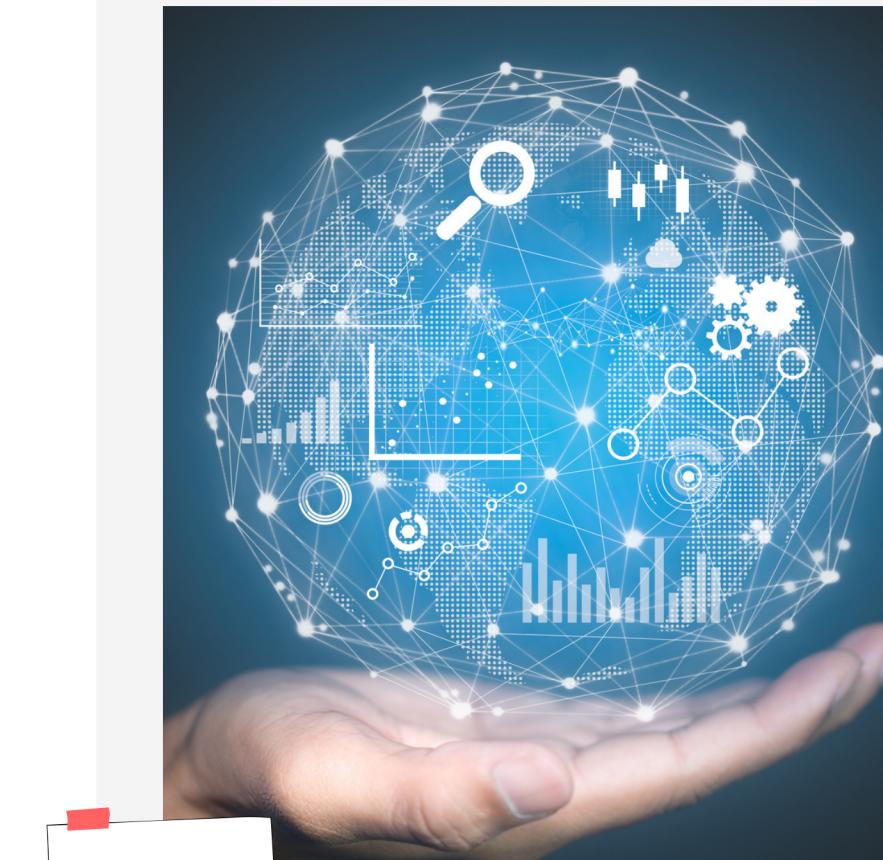
Descubriendo el Poder de los Datos Abiertos: Explorando api-colombia con React.js

Rina Plata - [@rina_plata](#)



Introduction

Los datos son los recursos más valiosos, que pueden ser utilizados para tomar decisiones, crear aplicaciones, IA, etc.



OpenDate



¿Que son los datos Abiertos?

Empezemos !!

Datos Abiertos

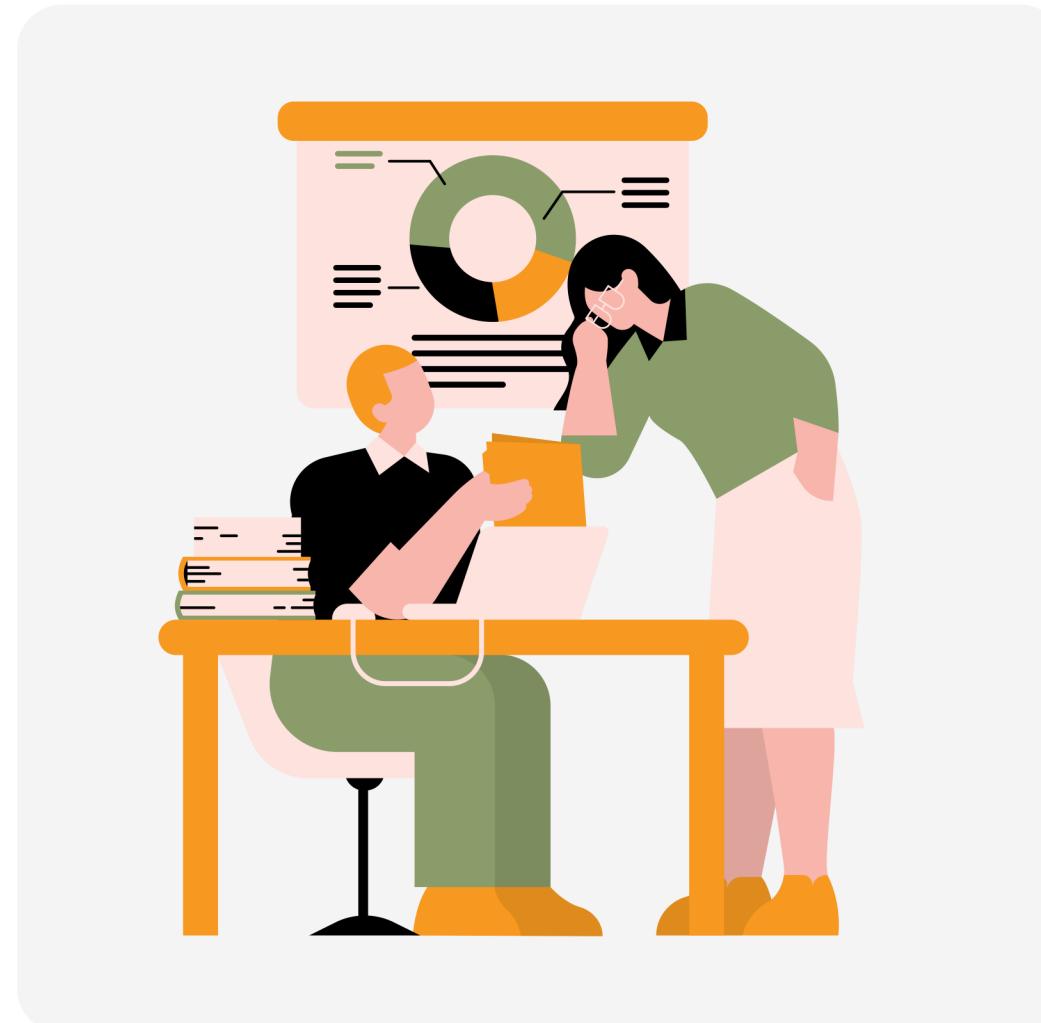
Conjunto de datos disponibles que todos
pueden acceder, modificar, reutilizar y
compartir.



Beneficio

Ofrece una serie de beneficio, tanto para la sociedad, individuos organizaciones y gobiernos.

- **Innovación**
- **Desarrollo de aplicaciones y servicios**
- **Investigación y análisis**



Lista de aplicaciones de datos abiertos

- 1** Datos.gov.co
- 2** World Bank Open Data
- 3** Datos Abiertos de la Organización Mundial de la Salud (OMS)
- 4** Portal de Datos Abiertos del Banco Interamericano de Desarrollo (BID)
- 5** OpenStreetMap
- 6** DATA.NASA.GOV

The screenshot shows a web browser window with the URL api-colombia.com in the address bar. The page has a dark blue header with the title "ApiColombia". Below the header is a yellow navigation bar containing links for "View Swagger", "View Repo", "View Repository", and "View Swagger". The main content area features a sidebar on the left with the Colombian flag and a list of endpoints. The main content area includes a section titled "API COLOMBIA" with a brief description and a "Project Support Features" section.

API COLOMBIA

API Colombia is a public RESTful API that enable users to obtain a variety of public information about the country "Colombia".

Project Support Features

- Minimal API's endpoints to get information about :
 - General information about the country.
 - Departments/States.
 - Region.
 - Cities.
 - Presidents.
 - Tourist attractions.
- Swagger documentation.
- Does not requiere authentications.
- You can obtain the `pageList` endpoints that return the paged information.
add to the end of each endpoint `/pagedList`
example:
`/api/{version}/city/pagedList`

API Colombia

- [View Swagger](#)
- [View Repo](#)
- [View Repository](#)
- [View Swagger](#)

<https://github.com/Mteheran/api-colombia>

<https://api-colombia.com/swagger/index.html>

Endpoints

- GET Info Colombia
- GET Departments
- GET Region
- GET Tourists
- GET Presidents
- GET Natural Area
- GET Category Natural Area
- GET Map
- GET Invasive Specie
- GET Native Community

¿Como le saqué provecho a api-colombia utilizando React.js ?

Empezemos !!

Configuración de mi Proyecto

1

The screenshot shows the Visual Studio Code interface with a dark theme. The Explorer sidebar on the left displays the project structure:

- BUSCADOR-APICOLOMBIA**
 - mi-app**
 - node_modules
 - public
 - src**
 - App.css
 - App.js
 - App.test.js
 - index.css
 - index.js
 - logo.svg
 - reportWebVitals.js
 - setupTests.js
 - .gitignore
 - gitignore.txt** (highlighted with a red border)
 - package-lock.json
 - package.json
 - README.md
 - README.md

The terminal tab is active, showing the following text:

```
and scripts into the app directory. If you do this, you can't go back!
We suggest that you begin by typing:
cd mi-app
npm start
Happy hacking!
rinam@LAPTOP-JIVST1T4 MINGW64 /c/Proyectos/Buscador-ApiColombia (main)
$ 
```

A purple callout box at the bottom right contains the command:

npx create-react-app mi-app

Creación del componente

2

The screenshot shows a dark-themed instance of Visual Studio Code with the title bar "Buscador-ApiColombia". The Explorer sidebar on the left displays the project structure:

- BUSCADOR-APICOLOMBIA**
 - PUBLIC**
 - favicon.ico
 - index.html
 - logo192.png
 - logo512.png
 - manifest.json
 - robots.txt
 - src**
 - components**
 - BuscadorComponent.css
 - BuscadorComponent.jsx** (highlighted in red)
 - App.css
 - App.js
 - App.test.js
 - index.css
 - index.js
 - .gitignore
 - gitignore.txt
 - package-lock.json
 - package.json
- OUTLINE**
- TIMELINE**

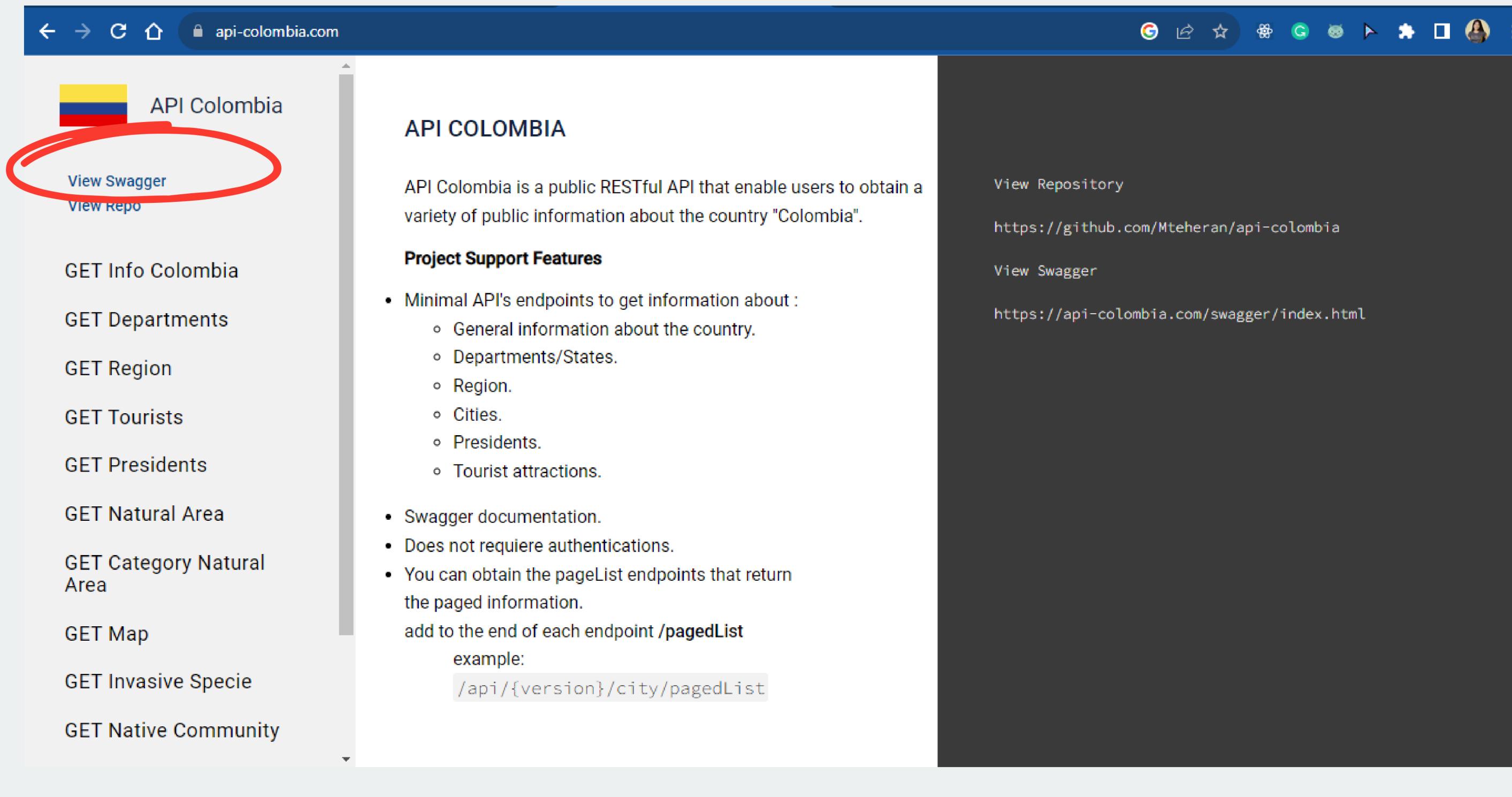
The Terminal tab is active, showing the output of a webpack build:

```
Line 6:19: 'setBuscador' is assigned a value but never used no-unused-vars
webpack compiled with 1 warning
```

A purple button at the bottom right of the terminal area contains the text "cd mi-app".

Buscamos la URL
para traer los datos

3



The screenshot shows a web browser window with the URL api-colombia.com in the address bar. The page content is as follows:

API Colombia

API COLOMBIA

API Colombia is a public RESTful API that enable users to obtain a variety of public information about the country "Colombia".

Project Support Features

- Minimal API's endpoints to get information about :
 - General information about the country.
 - Departments/States.
 - Region.
 - Cities.
 - Presidents.
 - Tourist attractions.
- Swagger documentation.
- Does not requiere authentications.
- You can obtain the `pageList` endpoints that return the paged information.
add to the end of each endpoint `/pagedList`
example:
`/api/{version}/city/pagedList`

[View Repository](#)
<https://github.com/Mteheran/api-colombia>

[View Swagger](#)
<https://api-colombia.com/swagger/index.html>

API Endpoints

- GET Info Colombia
- GET Departments
- GET Region
- GET Tourists
- GET Presidents
- GET Natural Area
- GET Category Natural Area
- GET Map
- GET Invasive Specie
- GET Native Community

Copiar la URL endpoint

4

GET /api/v1/NativeCommunity List of native communities in Colombia

This endpoint returns the native communities in colombia including general info like name, description, images, etc...

Parameters

No parameters

Cancel

Execute Clear

Responses

Curl

```
curl -X 'GET' \
'https://api-colombia.com/api/v1/NativeCommunity' \
-H 'accept: application/json'
```

Request URL

<https://api-colombia.com/api/v1/NativeCommunity>

Server response

Code Details

200 Response body

```
[  
  {  
    "id": 1,  
    "name": "Achagua Piapoco",  
    "description": "Achagua es un pueblo indígena, que hasta el siglo XVIII habitó en la cuenca de los ríos Casanare, Meta y Apure y del que actualmente sobreviven las comunidades de los resguardos de Humapó y El Turpial, en el municipio colombiano de Puerto López y algunas familias en La Primavera (Vichada), Puerto Gaitán (Meta) y La Hermosa (Casanare).",  
    "languages": "Achagua, Piapoco, Castellano",  
    "images": null  
  },  
  {  
    "id": 2,  
    "name": "Amorúa",  
    "description": "Este grupo habita en los ríos Orinoco y Meta, especialmente en el área del resguardo de Caño Mochuelo -Hato Corozal- en el departamento de Casanare. Se mencionan algunas personas de origen Amorúa en las comunidades de Conejo, Turpialito, Bachaco, Caño Mosquito y Dagua en el Vichada.",  
    "languages": "Pertenece a la familia lingüística Guahíbo",  
    "images": [  
      "https://apicolombiastorage.blob.core.windows.net/nativecommunities/2-Amorua.jpg"  
    ]  
  }]
```

Mostrar los datos de la API

5

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under "BUCADOR-APICOLOMBIA". The "image" folder in the "src/components" directory is selected.
- Code Editor:** Displays the content of `BuscadorComponent.jsx`. The URL for fetching data from the API is highlighted with a red underline: `const URL = "https://api-colombia.com/api/v1/NativeCommunity";`
- Terminal:** Shows the message `webpack compiled successfully`.
- Status Bar:** Shows the current file is `main*`, has 0 errors and 0 warnings, and is in JavaScript/JSX mode.

Creación del Buscador

6

File Edit Selection View Go ... 🔍 Buscador-ApiColombia

BuscadorComponent.jsx U BuscadorComponent.css M App.css M

mi-app > src > components > BuscadorComponent.jsx > BuscadorComponent > useEffect() callback

```
17 //Buscador
18 const buscador = (e) => {
19   setBuscar(e.target.value);
20 }
21
22 //filtrar
23 const resultado = !buscar ? nativeCommunities : nativeCommunities.filter((data) =>
24   data.name.toLowerCase().includes(buscar.toLocaleLowerCase()));
25
26 useEffect(() => {
27   showData();
28 }, [])
29
30 return (
31   <div className="container-table">
32     <table>
33       <thead>
```

OUTPUT PROBLEMS DEBUG CONSOLE TERMINAL PORTS

On Your Network: http://192.168.72.1:3000

Note that the development build is not optimized.
To create a production build, use `npm run build`.

webpack compiled successfully

cd mi-app

Ln 29, Col 16 Spaces: 2 UTF-8 CRLF {} JavaScript JSX ✓ Prettier

Mostrar los datos en el render

7

The screenshot shows a code editor interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, ...
- Search Bar:** Buscador-ApiColombia
- Toolbar:** Includes icons for file operations like Open, Save, Find, and Print.
- Left Sidebar:** Shows navigation icons for file operations (New, Open, Save, Find, Print) and a search icon.
- File List:** mi-app > src > components > BuscadorComponent.jsx
- Open Files:** BuscadorComponent.jsx (U), BuscadorComponent.css (M), App.css (M)
- Code Area:** Displays the following code snippet in JSX:

```
32 return (
33   <div className="container-table">
34     <input
35       value={buscar}
36       onChange={buscador}
37       type="text"
38       placeholder="Serch"
39       className="form-control"
40     />
41     <table className="table table-striped table-hover">
42       <thead>
43         <tr className="table-active ">
44           <th scope="col">Id</th>
45           <th scope="col">Nombre</th>
46           <th scope="col">Lengua</th>
47           <th scope="col">Descripcion</th>
48         </tr>
49       </thead>
50       <tbody>
51         {resultado.map((nativeCommunities) => (
52           <tr key={nativeCommunities.id}>
53             <td>{nativeCommunities.id}</td>
54             <td>{nativeCommunities.name}</td>
55             <td>{nativeCommunities.languages}</td>
56             <td>{nativeCommunities.description}</td>
57           </tr>
58         ))
59       </tbody>
60     </table>
61   </div>
62 )
63 
```

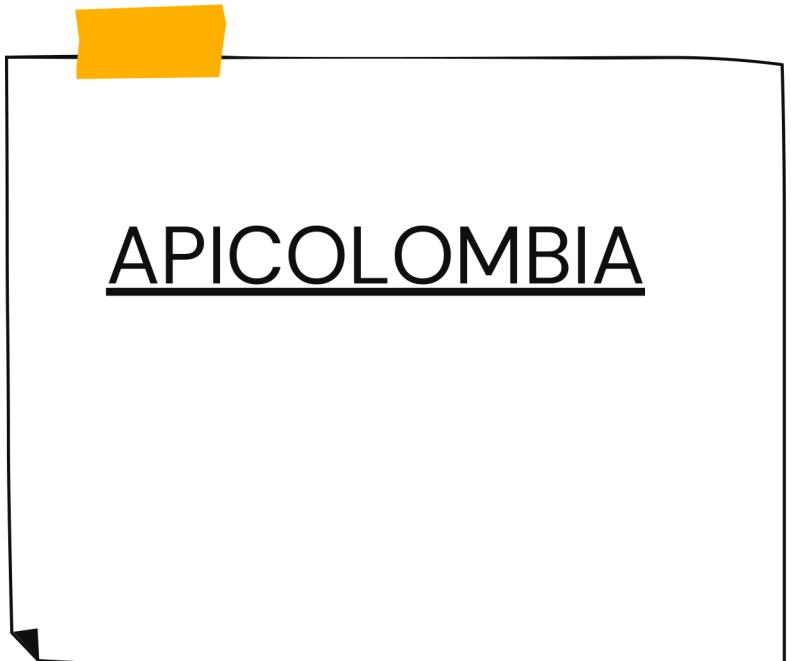
A terminal window on the right shows the command: `cd mi-app`.

Bottom status bar: Ln 29, Col 16 Spaces: 2 UTF-8 CRLF {} JavaScript JSX ✓ Prettier

MOSTRAR EL CODIGO

vamos !!! npm start

¿QUIEN UTILIZA API
COLOMBIA ?



CASOS DE EXITO DE API COLOMBIA



HEMOS TENIDO MAS DE

250 MIL LLAMADAS A LOS
ENPOINTS DE LA API !!

**Muchas
gracias**

