

How to connect frontend and backend

CORS → cors stand for the **cross origin resource sharing**

- **its a** security feature in a web browser that controls which website can access which resource (like APIs) from another domain, api, protocol, etc

Why does it exist?

- To **protect your browser from malicious websites** making requests to other websites **without your permission**.

What is an Origin?

- An **origin** is defined as
- origin = protocol + domain + port

app.use(cors()); // Allow all origins

Anyone (from any frontend URL) can send requests to your backend (from a browser).

Development Mode

- **app.use(cors()); // OK for local testing**

Production Mode (Recommended)

- **app.use(cors({**
- **origin: 'https://your-frontend-domain.com', // or http://localhost:5173 in dev**
- **methods: ['GET', 'POST'],**
- **credentials: true // if using cookies or sessions**
- **});**

What is a Proxy?

A **proxy** is like a **middleman** that forwards requests from one server to another.

In **React (Vite, CRA)** projects, a proxy helps your **frontend** talk to the **backend server without CORS issues**, by pretending both are on the same origin.

Why Do We Need a Proxy?

```
axios.get('http://localhost:4000/api/jokes')
```

And your frontend runs at http://localhost:5173, the browser says:

✗ “Hey! That’s a different origin! Not allowed unless CORS is enabled.”

To avoid this:

✓ You can use a proxy

```
axios.get('/api/jokes')
```

And set up a proxy to **forward** that request to http://localhost:4000/api/jokes.

[OBJ]

[OBJ]

```
import React, { useEffect, useState } from 'react';
import axios from 'axios';

const App = () => {
  const [jokes, setJokes] = useState([]);

  useEffect(() => {
    axios.get('/api/jokes')
      .then((res) => {
        setJokes(res.data);
      })
      .catch((error) => {
        console.log(error);
      });
  }, []);

  return (
    <div>
      <h3>Chai and full stack</h3>
      {jokes.map((joke, index) => (
        <div key={joke.id}>
          <h3>{joke.title}</h3>
          <p>{joke.content}</p>
        </div>
      ))}
    </div>
  );
}

export default App;
```