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## CORS

1 message

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**Cross-Origin Resource Sharing (CORS)** is a security feature implemented by web browsers to prevent malicious websites from making unauthorized requests to a different domain than the one that served the web page. It helps ensure that web applications can only request resources from the same origin (domain, protocol, and port) unless explicitly allowed by the server.

### Understanding CORS

- **Origin:** Defined by the combination of the protocol (`http` or `https`), domain (e.g., [example.com](http://example.com)), and port (e.g., 8080). For example, <http://example.com:8080> and <https://example.com> are considered different origins.
- **Cross-Origin Request:** When a web page makes a request (e.g., via JavaScript) to a different origin than the one that served the page, it's considered a cross-origin request. This includes requests made via `XMLHttpRequest`, `fetch`, or similar methods.

### Why CORS Matters

- **Security:** CORS is designed to prevent potentially harmful interactions between different origins. For example, it prevents a malicious site from making unauthorized requests on behalf of a user to a site where they are authenticated.

### How CORS Works

1. **Preflight Requests:** For some cross-origin requests, the browser sends an HTTP OPTIONS request (preflight request) to the server to determine if the actual request is safe to send. This is typically required for methods other than GET/POST or when custom headers are included.
2. **Server Response:** The server responds to the preflight request with appropriate CORS headers that indicate which origins are allowed, which methods can be used, and which headers can be exposed.



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