A screenshot of a computer program

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Node.js is a tool that lets you run JavaScript on a server. This is useful for building websites and web applications. One of the best features of Node.js is that it can handle many tasks at the same time without slowing down, making it great for building fast and efficient servers.

In the code provided, a simple Node.js server listens for incoming requests on port 8000. Depending on what URL the user enters (like /, /student, /admin, or /data), the server sends back a specific response. For example, if the user visits /student, the server sends back a message saying, "This is student Page." If they visit /data, it sends a JSON message. If the URL is not recognized, it sends an "Invalid Request" message.

This code shows how Node.js can easily create a web server that responds to different requests. It’s a simple and effective way to handle many types of requests without needing complex setup.