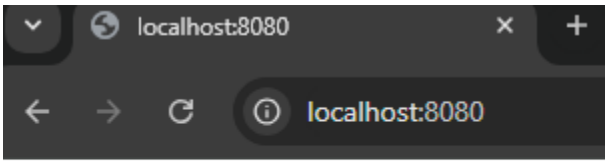
Node.js

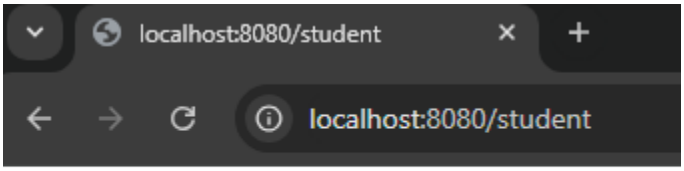
- **Server Setup**: I have created a Node.js server using the command node app.js. The server is running at http://localhost:8000/.
- **Routing**: The application handles different routes. For example, the root route (/) displays “This is home page,” and the /student route returns a JSON error message indicating “Resource not found.”
- **Development Environment**: I using a command line interface to run Node.js server and a web browser to test the routes and view the responses.

Node.js is a powerful JavaScript runtime that allows I build scalable network applications. It uses an event-driven, non-blocking I/O model, making it efficient and suitable for real-time applications.

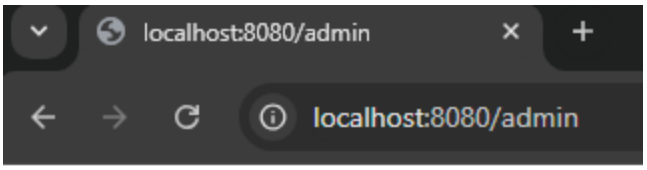
```
C:\Users\TIN\Desktop\COMP1842\week6\npmtest>node server.js
Node.js web server at port 8000 is running..
```



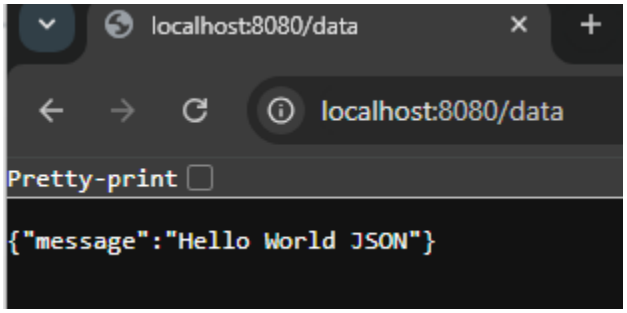
This is home Page.

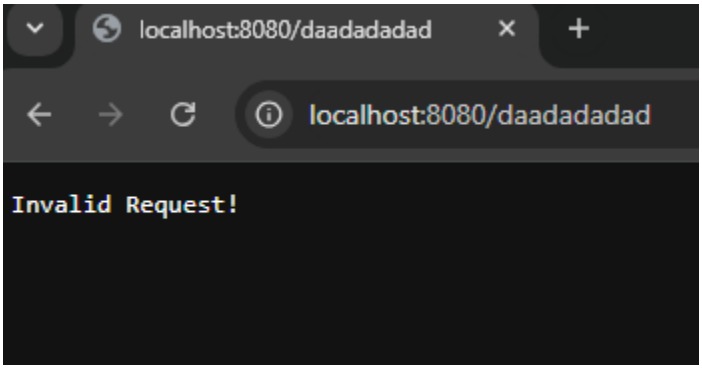


This is student Page.



This is admin Page.





In conclusion, Node.js is a versatile and powerful JavaScript runtime that enables developers to build scalable and efficient network applications. By leveraging its event-driven, non-blocking I/O model, Node.js excels in real-time applications and web development tasks. The provided setup demonstrates how to create and run a simple Node.js server, handle routing for different paths, and display content or errors in a web browser. This makes Node.js an essential tool for modern web development, offering a robust platform for building fast and scalable backend services.