# Send JSON-format student data from node.js server via NGRok

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# Concept

JSON: JSON stands for JavaScript Object Notation. It is a lightweight format for storing and transporting data that often used in data sent from a server to a web page.

Node.js: Node.js is a back-end JavaScript runtime environment that uses JavaScript on the server.

NGRok: Ngrok could map your local private address to a public address in this project.

# **Student Info**

Student ID	Student Name	Score
11111	Bruce Lee	84
22222	Jackie Chen	93
33333	Jet Li	88

## student\_info.js

```
const http = require('http');

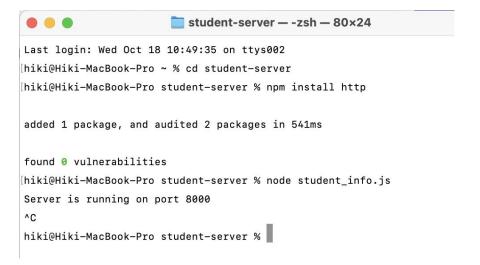
const students = [
    { id: 11111, name: 'Bruce Lee', score: 84 },
    { id: 22222, name: 'Jackie Chen', score: 93 },
    { id: 33333, name: 'Jet Li', score: 88 },
};
```

```
const server = http.createServer(function(reg, res) {
   if (reg.url.startsWith('/api/score?student id=')) {
       const studentId = parseInt(reg.url.split('=')[1]);
       const student = students.find(student => student.id ===
studentId);
       if (student) {
           res.writeHead(200, { 'Content-Type': 'application/json'
});
           res.end(JSON.stringify(student));
       } else {
           res.writeHead(404, { 'Content-Type': 'text/plain' });
           res.end('Student not found');
  } else {
       res.writeHead(404);
       res.end();
});
const PORT = 8000;
server.listen(PORT, () => {
   console.log(`Server is running on port ${PORT}`);
});
```

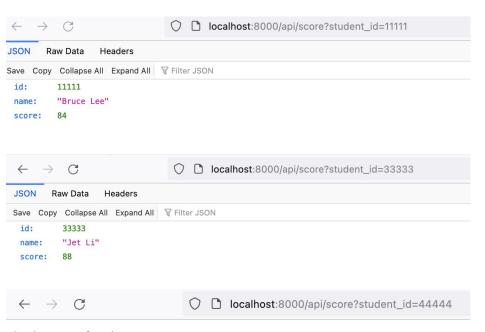
## node.js server

- Create a student-server directory
   mkdir student-server
   cd student-server
- Initialize a Node.js Projectnpm init -y

- 3. Copy the student\_info.js to the directory
- Install required dependencies
   npm install http
- Run the servernode student\_info.js



#### localhost



Student not found

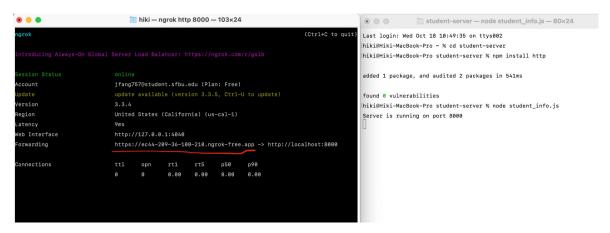
# Set up NGRok

- 1. Install NGRok via Homebrew
  - brew install ngrok/ngrok/ngrok
- 2. Add authtoken, you need to sign up a account for authtoken
  - ngrok config add-authtoken <token>

#### **Start NGRok**

1. Start a tunnel

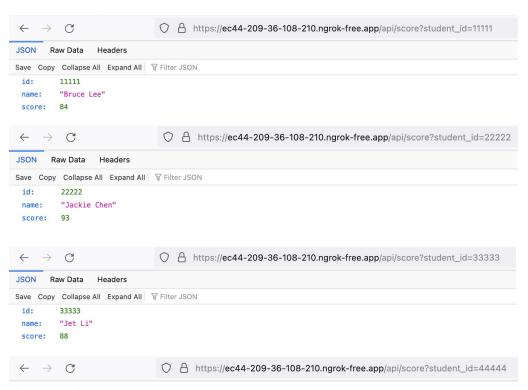
ngrok http 8000



Use the address above the red line to access server

Ex: http://ec44-209-36-108-210.ngrok-free.app/api/score?student\_id=11111

#### Result



Student not found