

Step 1: Set Up Node.js Project

Create a new directory & navigate into it:

```
mkdir student-info-api
```

```
cd student-info-api
```

Step 2: Javascript code

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

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

```
// student data
```

```
const students = {
```

```
  '11111': { id: '11111', name: 'Bruce Lee', score: 84 },
```

```
  '22222': { id: '22222', name: 'Jackie Chen', score: 93 },
```

```
  '33333': { id: '33333', name: 'Jet Li', score: 88 },
```

```
};
```

```
// Create server
```

```
const server = http.createServer((req, res) => {
```

```
  // Parse the URL
```

```
  const parsedUrl = url.parse(req.url, true);
```

```
  // Checking path matches the API endpoint
```

```
  if (parsedUrl.pathname === '/api/score') {
```

```
    const studentId = parsedUrl.query.student_id || parsedUrl.query.studnt_id; // Allow both query params
```

```
    if (students[studentId]) {
```

```
      res.writeHead(200, { 'Content-Type': 'application/json' });
```

```
      res.end(JSON.stringify(students[studentId]));
```

```
    } else {
```

```
      res.writeHead(404, { 'Content-Type': 'application/json' });
```

```
        res.end(JSON.stringify({ message: 'Student not found' }));
    }
} else {
    // Handle 404 for other routes
    res.writeHead(404, { 'Content-Type': 'application/json' });
    res.end(JSON.stringify({ message: 'Not Found' }));
}
});

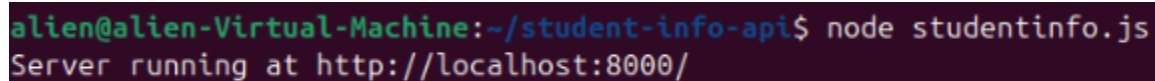
// Run the server
const port = 8000;
server.listen(port, () => {
    console.log(`Server running at http://localhost:${port}`);
});
```

Step 3: Run the Server

In your terminal, run the following command: **node studentinfo.js**

You should see the message:

Server running at <http://localhost:8000>

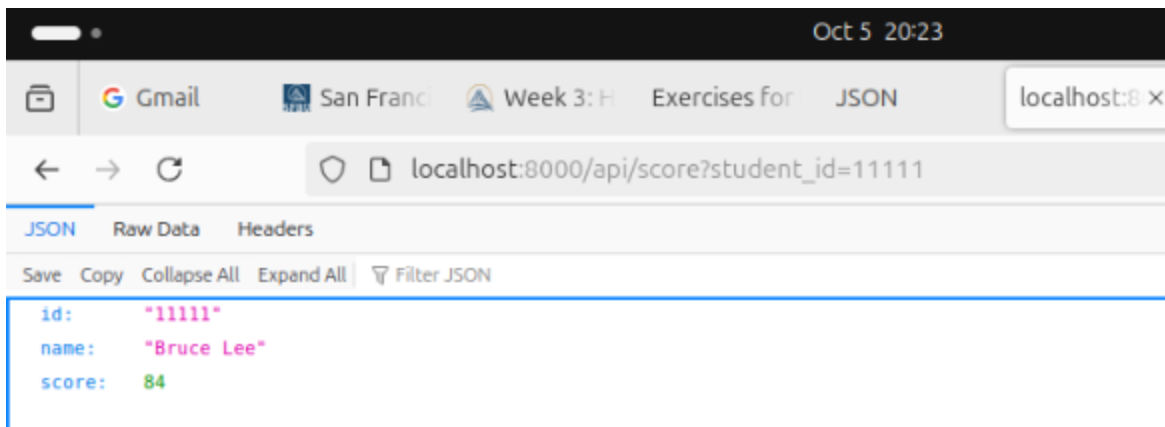


```
alien@alien-Virtual-Machine:~/student-info-api$ node studentinfo.js
Server running at http://localhost:8000/
```

Step 4: Test the Server in browser

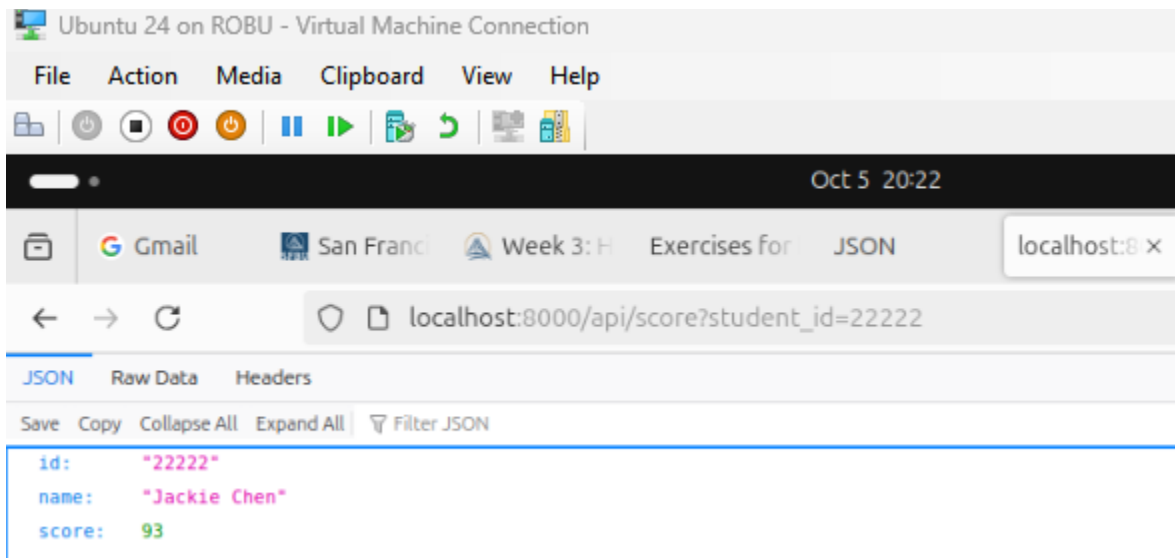
- For Bruce Lee:

http://localhost:8000/api/score?student_id=11111

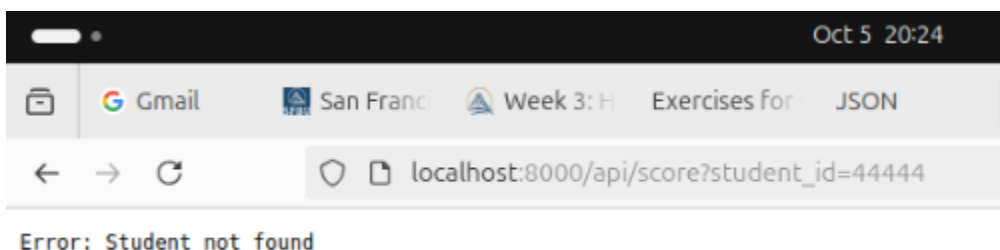


- For Jackie Chen:

http://localhost:8000/api/score?student_id=22222



If you try an ID that does not exist, you will receive a 404 error with the message:



Google Slide Link:

<https://docs.google.com/presentation/d/1XSYM6jbl4r6Mdlr3L10ybg0xrcKHhJkWdhS6zf8Zwe8/edit?usp=sharing>