

Module 4 Lab 1

Brandon Trinkle

IFT 458: Middleware Prog & Database Sec

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Module 4 Lab 1

1. Screenshots of all requests and corresponding responses in the REST Client.

The screenshot shows the VS Code interface with the REST Client extension. The Explorer panel on the left shows the project structure, including files like `bookRoutes.js`, `userRoutes.js`, `viewRoutes.js`, and `book-requests-1217455031.http`. The main editor displays the REST Client requests and responses for the `book-requests-1217455031.http` file.

The requests are as follows:

```
1 // Student Name: Brandon Trinkle
2 // Student ID: 1217455031
3 // Date: 3/15/2025
4
5 ### GET All Books
6 GET http://localhost:4000/api/v1/books
7
8 ### GET a Specific Book by ID
9 GET http://localhost:4000/api/v1/books/1
10
11 ### POST a New Book
12 POST http://localhost:4000/api/v1/books
13 Content-Type: application/json
14 {
15   "title": "Harry Potter and the Sorcerer's Stone",
16   "author": "J.K. Rowling",
17   "genre": "Fantasy",
18   "year": 1997
19 }
```

The responses are as follows:

```
1 HTTP/1.1 200 OK
2 X-Powered-By: Express
3 Content-Type: text/html; charset=utf-8
4 Content-Length: 1771
5 ETag: W/"6eb-ANY4XKlcb/hFjgX+LVbubetwI"
6 Date: Sat, 15 Mar 2025 21:55:16 GMT
7 Connection: close
8
9 <!DOCTYPE html>
10 <html>
11 <head>
12   <title>Login</title>
13   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dis
14     t/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-rbsA2
15     VBKQhggwzXh7pCaaQ46hgnOM8B2h1Rwuh61DGLwZJEDK2Kadq2F9CU665" cros
16     sorigin="anonymous">
17   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dis
18     t/js/bootstrap.bundle.min.js" integrity="sha384-kenuIKf8B1e4zVF0s
19     0G1M5b4hpcxy09F7jL+jjXkk+Q2h455rYXK/7HAuoJl+0t4" crossorigin="ano
20     nymous"></script>
21
22 </head>
23 <body>
24   <div id="currentDateTime"></div>
25
26   <script>
27     const dateTimeElement = document.getElementById('currentD
28     ateTime');
29     const currentDateTime = new Date().toLocaleString();
30
31     dateTimeElement.textContent = currentDateTime;
32   </script>
33
34   <h1>Your IP address is: <span id="ip-address"></span></h1>
35
36   <script>
37     fetch('https://api.ipify.org?format=json')
38       .then(response => response.json())
39   </script>
40 </body>
41 </html>
```

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4 Content-Length: 1771
5 ETag: W/"6eb-ANY4XKlcb/hFjgX+LVbubetwI"
6 Date: Sat, 15 Mar 2025 21:55:42 GMT
7 Connection: close
8
9 <!DOCTYPE html>
10 <html>
11 <head>
12   <title>Login</title>
13   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dis
14     t/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-rbsA2
15     VBKQhggwzXh7pCaaQ46hgnOM8B2h1Rwuh61DGLwZJEDK2Kadq2F9CU665" cros
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```

The screenshot shows a Visual Studio Code editor with a REST client file named 'book-requests-1217455031.http'. The file contains several HTTP requests for a book application. The 'Response(4ms)' tab shows the result of a GET request to '/api/v1/books/1', which is a 200 OK status with a JSON body containing book details.

```

1 // Student Name: Brandon Trinkle
2 // Student ID: 1217455031
3 // Date: 3/15/2025
4
5 ### GET All Books
6 Send Request
7 GET http://localhost:4000/api/v1/books
8
9 ### GET a Specific Book by ID
10 Send Request
11 GET http://localhost:4000/api/v1/books/1
12
13 ### POST a New Book
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15 POST http://localhost:4000/api/v1/books
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17 {
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19   "author": "J.K. Rowling",
20   "genre": "Fantasy",
21   "year": 1997
22 }

```

```

1 HTTP/1.1 200 Found
2 X-Powered-By: Express
3 Location: /api/v1/views/loginUser
4 Vary: Accept
5 Content-Type: text/plain; charset=utf-8
6 Content-Length: 45
7 Date: Sat, 15 Mar 2025 21:56:08 GMT
8 Connection: close
9
10 Found. Redirecting to /api/v1/views/loginUser

```

Note: There are multiple issues with this lab. I cannot use any REST API's because there is middleware that requires authentication to hit the endpoints in Mongo. The username and password in the lab do not authenticate to iftuser MongoDB. So, to even run server.js I must use my own MongoDB credentials to the database we created. I do not have users in my MongoDB so that I can authenticate. The lab instructions do not tell us to do that. So I just shared the failed REST API requests. They will fail until it can authenticate to the MongoDB 'users' account.

Suggestion: It would be great to actually use the RESTapi's – perhaps you can change your MongoDB IP settings so that we all can use a central database (set it to anyone), instead of trying to use our own – which wont work with this code.