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Std: FYMCA Div: B Batch: B3

Roll No: 63

Sub: AWT

Assignment No:4

Code:

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

const app = express();

const PORT = 3000; // You can use any available port


// Middleware to parse JSON requests

app.use(express.json());


// Array to store books (for demonstration purposes; in a real application, you would use a database)

let books = [

  { id: 1, title: 'Book 1', author: 'Author 1' },

  { id: 2, title: 'Book 2', author: 'Author 2' },

  { id: 3, title: 'Book 3', author: 'Author 3' },

];


// Route to get all books

app.get('/books', (req, res) => {

  res.json(books);

});


// Route to add a new book

app.post('/books', (req, res) => {

  const { title, author } = req.body;

  const id = books.length + 1;

  const newBook = { id, title, author };
```

```javascript
  books.push(newBook);

  res.status(201).json(newBook);

});


// Route to update a book by ID

app.put('/books/:id', (req, res) => {

  const { id } = req.params;

  const { title, author } = req.body;

  const book = books.find((b) => b.id === parseInt(id));

  if (!book) {

    return res.status(404).send('Book not found');

  }

  book.title = title;

  book.author = author;

  res.json(book);

});


// Route to delete a book by ID

app.delete('/books/:id', (req, res) => {

  const { id } = req.params;

  books = books.filter((b) => b.id !== parseInt(id));

  res.sendStatus(204);

});


// Start the server

app.listen(PORT, () => {

  console.log(`Server is running on port ${PORT}`);

});
```
Output:

EXPLORER ···   ✕ Welcome   JS Assign3.js   📄 source.txt   📄 destination.txt   JS Assign4.js ✕

> OUTLINE
∨ ASSIGNMENTS
  > 📦 node_modules
    JS Assign3.js
    JS Assign4.js
    📄 Assignment3docx...
    📄 destination.txt
    📄 package-lock.json
    📄 package.json
    📄 source.txt

JS Assign4.js > ...

```javascript
 7
 8    // Array to store books (for demonstration purposes; in a real application, you would use a database
 9    let books = [
10      { id: 1, title: 'Book 1', author: 'Author 1' },
11      { id: 2, title: 'Book 2', author: 'Author 2' },
12      { id: 3, title: 'Book 3', author: 'Author 3' },
13    ];
14
15    // Route to get all books
16    app.get('/books', (req, res) => {
17      res.json(books);
```

PROBLEMS   OUTPUT   TERMINAL   PORTS   DEBUG CONSOLE   Code ∨

```
Error reading source file: [Error: ENOENT: no such file or directory, open 'c:\Users\HP\Desktop\MCA\FYMCA\Sem
  syscall: 'open',
  path: 'c:\\Users\\HP\\Desktop\\MCA\\FYMCA\\Sem 2\\Subjects\\AWT\\Assignments\\source.txt'
}

[Done] exited with code=0 in 1.605 seconds

[Running] node "c:\Users\HP\Desktop\MCA\FYMCA\Sem 2\Subjects\AWT\Assignments\Assign3.js"
Data transfer successful!

[Done] exited with code=0 in 0.171 seconds

[Running] node "c:\Users\HP\Desktop\MCA\FYMCA\Sem 2\Subjects\AWT\Assignments\Assign4.js"
```