University of the Philippines Los Baños
CMSC 100 - Web Programming Laboratory Exercise

Exercise 05: Web Server with Express JS[1]

Title: Establish a Web Server using Express JS
Type: Individual Assessment
Score: (15 points)

Problem: Create an Express JS server that accepts requests on these endpoints.

Program specifications:
1. Create a POST method for adding books to the text file, using /add-book as the route name.
    -   Accepts an object in the request body. The object must have the following fields:
        -   Book name
        -   ISBN (unique)
        -   Author
        -   Year Published
    -   If all fields are existing and are not empty strings, save the data to a file books.txt with the following format: ***book name,isbn,author,year published***

E.g.

books.txt
Harry Potter and the Philosopher's Stone,978-0-7475-3269-9,J.K Rowling,1997
Harry Potter and the Chamber of Secrets,0-7475-3849-2,J.K Rowling,1998
The Little Prince,978-0156012195,Antoine Saint-Exupery,1943

-   The server's response should be an object with a singular boolean field **success** indicating if the book object was successfully saved.

TERMINAL
> { success: true } > { success: false }

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2. Create a GET method for retrieving the entire book details using ISBN and Author as search criteria, and use /find-by-isbn-author as the route name.
   - Accepts 2 parameters in the address bar:
     1. ISBN
     2. Author

   Test: http://localhost:3000/find-by-isbn-author?isbn=978-0-7475-3269-9&author=J.K+Rowling

3. Create the same GET method as #2 but with Author as the only parameter.

   Test: http://localhost:3000/find-by-author?author=J.K+Rowling

3. Create GITIGNORE:
   - On your terminal, type in nano .gitignore
   - Write:
     ```
     node_modules/*
     ```

Submission Guidelines: *Accept the invite link posted in the Google Classroom's exer 5 to create your own GitHub classroom repository. Push your files in your Github repository (test.js, server.js). Make sure to include the package.json file. DO NOT INCLUDE THE node_modules/ folder. Kindly put a .gitignore file so that the node_modules will not be pushed to your remote repository. Do not forget to document your code with comments.*

After you are done with your exercise, click the mark as done button in the Google Classroom Assignment.

Scores breakdown:

Criteria	Description
Use of GitHub (5 Points)	- Commit Messages - 3 points - Documentation/ReadMe -1 point - Use of GitHub classroom's repository for GitHub Pages - 1 point
Application of JavaScript Syntax (10 Points)	Use of JavaScript Syntax (No Regular Expressions) / See Specs