Module Assignment - "Developing the Backend Functionality via Node and Express"

Important Note: Please write comments in your codes and a thought note in a separate sheet while submitting the assignment. If comments and thought note is not present in your submission, marks will get deducted.

Q. We're going to be creating a student database in this assignment. Since we don't know how to create a database, or how to connect a frontend to a backend yet, we're going to go about this in a very simple manner.

1. Create a POST request that accepts the following student details: student ID (should be unique), Student name, GPA. Use postman to make these requests and populate the storage.
2. Then, create an endpoint that retrieves all the data and prints them. Make this request from the browser, and the output should look like this:

← → C ⌂ ⓘ localhost:5000/allStudents

All students data!

Student id: 101

Name: John Smith

GPA: 4.5

Student id: 103

Name: Carly Smith

GPA: 4.7

Student id: 102

Name: Caleb Smith

GPA: 4

3. Then, create another GET request that retrieves the data of a particular student, and prints just that. Make this request from the browser as well, and it should look like this:
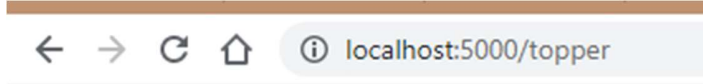
← → C ⌂ ⓘ localhost:5000/student/102

Student detail

Student id: 102

Name: Caleb Smith

GPA: 4

4. Finally, create an endpoint that looks for the topper among the class. For this, all the data should be retrieved and sifted through, and in the browser, display the ID and the name of the student with the highest GPA.

localhost:5000/topper

Student detail

Student id: 103

Name: Carly Smith

GPA: 4.7