Centennial College

MAPD713

Enterprise Technologies for Mobile Platforms

**Assignment 1**

Develop Node.js http server to store and retrieve product information using HTTP GET and POST requests and JSON data format.

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|  | **Requirement** | **Points** |
| 1 | - it should be under git control  - it should have several git commits, with a clear description of each commit  *E.g. “create package.json”, “implement data storage”, “add request handling”, “fix response message”, “add logging errors”, “change error message”, etc* | 1 |
| 2 | it should have package.json file with all required dependencies | 1 |
| 3 | it should handle HTTP GET requests  <http://127.0.0.1:3000/sendGet> | 1 |
| 4 | it should handle HTTP POST requests with JSON payload  <http://127.0.0.1:3000/sendPost>  payload example:  {“id”:2, “product”:”Pencil”, “price”:1.99} | 1 |
| 6 | - it should log the information on start-up:   * about the server uri (IP address and port) * endpoints information, so that user knows how access the server   Example:  Server is listening at <http://127.0.0.1:3000/>  Endpoints:  <http://127.0.0.1:3000/sendGet> method: GET  <http://127.0.0.1:3000/sendPost> method: POST  - it should log request and response information so it is clear what type of request is being processed, e.g.  > sendGet: received request  < sendGet: sending response | 1 |
| 7 | - it should have 2 request counters, one for sendGet endpoint, the other for sendPost  - it should log request counters values every request:  Processed Request Count--> sendGet:2, sendPost:5 | 2 |
| 7 | - It should store in-memory json payload received in POST request (<http://127.0.0.1:3000/sendPost>) | 3 |
| 9 | - It should display all stored json in the browser as a response on GET request (<http://127.0.0.1:3000/sendGet>) | 2 |
| 10 | Implement method deleting all records: <http://127.0.0.1:3000/sendDelete> | 1 |
| 11 | Create a sequence diagram, reflecting the application logic | 1 |
| 12 | Demo your solution with Postman or curl in the class | 1 |
|  | **TOTAL** | **15** out of 15 |

Zip the files and name the archive **MAPD713-A1-YourNameHere.zip**, e.g. **MAPD713-A1-JohnDoe.zip**