Centennial College

MAPD713

Enterprise Technologies for Mobile Platforms

**Assignment 1**

Develop Node.js http server to store, retrieve and delete information about **images** using HTTP GET, POST and DELETE requests and JSON data format.

|  | **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://127.0.0.1:5000/images> | 1 |
| 4 | it should handle HTTP POST requests with JSON payload  <http://127.0.0.1:5000/images>  payload example (with info about image):  {"imageId": 123, "name":"Candle", "url":"http://candle.cloud.com", "size":"500kb"} | 1 |
| 5 | - it should log the information on start-up:   * about the server uri (IP address and port) * endpoints information, so that user knows how to access the server   Example:  Server is listening at <http://127.0.0.1:5000>  Endpoints:  <http://127.0.0.1:5000/images> method: GET, POST  - it should log request and response information so it is clear what type of request is being processed, e.g.  > products GET: received request  < products GET: sending response | 1 |
| 6 | - it should have 2 request counters, one for GET requests and the other for POST requests  - it should log request counters values **every** request:  Processed Request Count--> Get:2, Post:5 | 2 |
| 7 | - It should store in-memory json payload received in POST request (<http://127.0.0.1:5000/images>) | 3 |
| 8 | - It should return a list of all images information as a response to GET request ( <http://127.0.0.1:5000/images>) | 2 |
| 9 | Implement method deleting all records: <http://127.0.0.1:5000/images>  HTTP method: DELETE | 1 |
| 10 | Create a sequence diagram, reflecting the application logic | 1 |
| 11 | Demo your solution with Postman or curl (record 1-2min video) | 1 |
|  | **TOTAL** | **15** out of 15 |

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