

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.

Grading

	Requirement	Your Points	Max Points
1	- it should be under git control - it should have several git commits, with a clear description of each commit <i>E.g. "create package.json", "implement data storage", "add request handling", "fix response message", "add logging errors", "change error message", etc</i>		0.5
2	it should have package.json file with all required dependencies		0.5
5	- it should log the information on start-up: <ul style="list-style-type: none"> - about the server uri (IP address and port) - endpoints information, so that user knows how to access the server <p>Example: Server is listening at http://127.0.0.1:5000 Endpoints: http://127.0.0.1:5000/products method: GET, POST</p> - it should log request and response information so it is clear what type of request is being processed, e.g. <pre>> products GET: received request < products GET: sending response</pre>		0.5
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		0.5
4	-it should handle HTTP POST requests with JSON payload at endpoint: http://127.0.0.1:5000/products payload example (with info about product): { "productId": 123, "name": "Candle", "price": 12.99, "quantity": 12 } - It should store in-memory json payload received in POST request (http://127.0.0.1:5000/products)		3
8	it should handle HTTP GET requests http://127.0.0.1:5000/products - It should return a list of all images information as a response to GET request (http://127.0.0.1:5000/products)		2
9	It should handle HTTP DELETE requests, deleting all records: http://127.0.0.1:5000/products		1
10	Create a sequence diagram, reflecting the application logic		1
11	Demo your solution with Postman or curl (or record 1-2min video)		1
	TOTAL		10

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