

# Assignment 7 - Simple REST API

This assignment is to develop a simple REST API with NodeJS and ExpressJS.

In this assignment, you should:

1. Initialize a new NodeJS application: *"node init --yes" (if you created a NodeJS project in an IDE, skip this step)*
2. Create a file *"app.js"*, where you will write your main JS code. (Again skip if you created a NodeJS in an IDE, since it will be created automatically).
3. Install express.js with npm: *"npm i express -s"*
4. **(5 pts)** Add 4 route methods for "grade" (GET, POST, PUT and DELETE). The URL is "localhost:3000/grade" (in case you are using a VM, substitute localhost with your VM's IP address)
  - a. The GET method returns "Got a GET request at /grade" (1 pt)
  - b. The POST method returns "Got a POST request at /grade" (1 pt)
  - c. The PUT method returns "Got a PUT request at /grade" (1 pt)
  - d. The DELETE method returns "Got a DELETE request at /grade" (1 pt)
5. **(5 pts)** Create an "index.html" file which should be displayed when localhost:3000 is accessed through a web browser. "index.html" should contain four buttons: "get", "post", "delete", "put". Once you click on a particular button, it should send an AJAX request to the URL "/grade".
  - a. Clicked on "get" => should call a javascript function to make an AJAX request with HTTP GET method.
  - b. Clicked on "post" => should call a javascript function to make an AJAX request with HTTP POST method.
  - c. Clicked on "delete" => should call a javascript function to make an AJAX request with HTTP DELETE method.
  - d. Clicked on "put" => should call a javascript function to make an AJAX request with HTTP PUT method.

Some references to help:

- <https://www.geeksforgeeks.org/how-to-send-a-put-delete-request-in-jquery/>
- See slides.

Compress your files and upload the zip file on the blackboard. Within the submitted ZIP folder, you **MUST also include screenshots of your work running (at least 4 screenshots of all request methods). Submission without screenshots will automatically lose 50% of the grade.**

No submission will be accepted by email.