

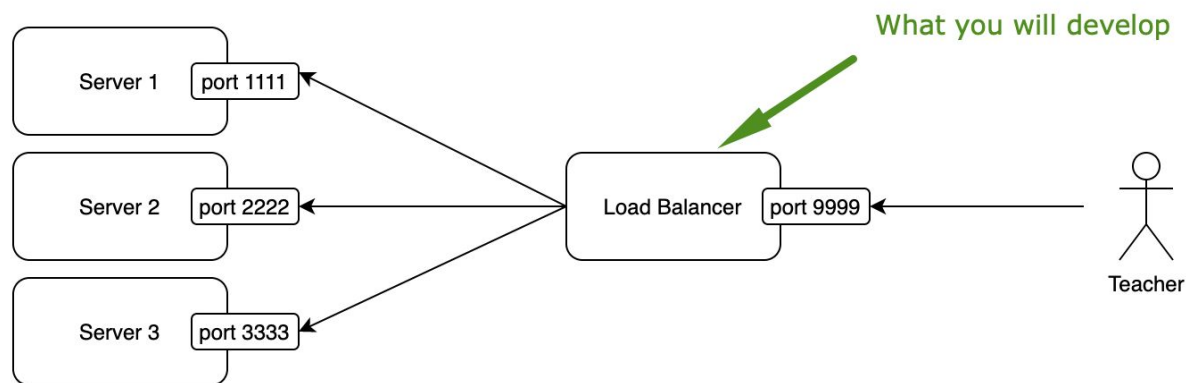
Champlain College - Lennoxville

Lab 2

PROGRAM:	420.B0 Computer Science Technology
COURSE:	Transactional Web Applications 1
COURSE CODE:	420-430-LE
Weight:	10% of the final score
SEMESTER:	Winter 2021
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Goal

- In order to have a basic understanding of a load balancer server, you have to implement a very simple one using NodeJs



Load balancer server specifications

- The load balancer server is a js file named : **balancer.js**
- The load balancer server will expose one endpoint : <http://localhost:9999/hello>
- The server will forward the request to server 1,2 or 3 in sequence (see example code for forwarding)

Example :

Calling <http://localhost:9999/hello> the first time will return “Hi I'm server 1”

Calling <http://localhost:9999/hello> the second time will return “Hi I'm server 2”

Calling <http://localhost:9999/hello> the third time will return “Hi I'm server 3”

Calling <http://localhost:9999/hello> the fourth time will return “Hi I'm server 1”

Etc...

Running the servers

You can run servers 1, 2, 3 and balancer.js in a separated command line

Provided code

Servers 1,2 and 3 code will be provided through a GitHub repository that you need to fork.

To fork the code:

- login to GitHub with your account
- go to <https://github.com/college-lennoxville/lab2>
- click on fork button on the top right
- once the fork is done, clone the repo from **your Github account** to your computer

GitHub

- You have to do at least 2 commits in your repository
- Submit a text file with the url of your GitHub repository.

Correction grid

Item	Instruction	Points%
Load balancer	The server is running on port 9999	5
	Calling http://localhost:9999/hello the first time will return "Hi I'm server 1"	15
	Calling http://localhost:9999/hello the second time will return "Hi I'm server 2"	15
	Calling http://localhost:9999/hello the third time will return "Hi I'm server 3"	15
	Calling http://localhost:9999/hello the fourth time will return "Hi I'm server 1"	20
Github	At least 2 commits are done in the repository	10
	GitHub repository with the complete project	20