TRƯỜNG ĐẠI HỌC TÔN ĐỨC THẮNG
KHOA CÔNG NGHỆ THÔNG TIN

PHÁT TRIỂN ỨNG DỤNG WEB VỚI NODEJS (502070)
LAB3 – NODEJS

TDTU

Documentation | Node.js (nodejs.org)

Introduction to Node.js (nodejs.dev)

Node.js Introduction (w3schools.com)

Node.js is an open-source and cross-platform JavaScript runtime environment.
Node.js runs the V8 JavaScript engine, the core of Google Chrome, outside of the browser. This allows Node.js to be very performant.

```javascript
var http = require('http');

http.createServer(function (req, res) {
  res.writeHead(200, {'Content-Type': 'text/html'});
  res.end('Hello World!');
}).listen(8080);
```

Node.js HTTP Module (w3schools.com)

Node.js has a built-in module called HTTP, which allows Node.js to transfer data over the Hyper Text Transfer Protocol (HTTP).

```javascript
var http = require('http');

//create a server object:
http.createServer(function (req, res) {
  res.write('Hello World!'); //write a response to the client
  res.end(); //end the response
}).listen(8080); //the server object listens on port 8080
```

```javascript
var http = require('http');
http.createServer(function (req, res) {
  res.writeHead(200, {'Content-Type': 'text/html'});
  res.write('Hello World!');
  res.end();
}).listen(8080);
```
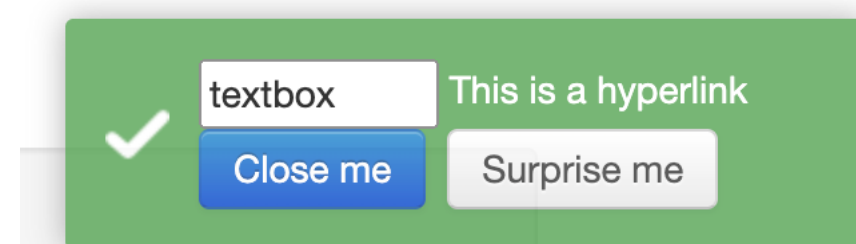
How to read environment variables from Node.js (nodejs.dev)

The process core module of Node.js provides the env property which hosts all the
environment variables that were set at the moment the process was started.

```
USER_ID=239482 USER_KEY=foobar node app.js
```

```
# .env file
USER_ID="239482"
USER_KEY="foobar"
NODE_ENV="development"
```

```
require('dotenv').config();

process.env.USER_ID // "239482"
process.env.USER_KEY // "foobar"
process.env.NODE_ENV // "development"
```

GitHub - CodeSeven/toastr: Simple javascript toast notifications

https://www.youtube.com/watch?v=OVZxrRQx46A

How to use EJS to template your Node.js application - LogRocket Blog

GitHub - jaredhanson/connect-flash: Flash message middleware for Connect and Express.

A toast provides simple feedback about an operation in a small popup. It only fills the amount of space required for the message and the current activity remains visible and interactive. Toasts automatically disappear after a timeout.

The flash is a special area of the session used for storing messages. Messages are written to the flash and cleared after being displayed to the user. The flash is typically used in combination with redirects, ensuring that the message is available to the next page that is to be rendered.

```js
const Products = [
    new Product(1, 'Product1', 1000),
    new Product(2, 'Product2', 2000),
    new Product(3, 'Product3', 3000),
    new Product(4, 'Product4', 4000),
    new Product(5, 'Product5', 5000),
    new Product(6, 'Product6', 6000),
    new Product(7, 'Product7', 7000),
    new Product(8, 'Product8', 8000),
    new Product(9, 'Product9', 9000),
    new Product(10, 'Product10', 10000),
    new Product(11, 'Product11', 11000, 'uploads/pix_11.jpg')
]
```

Lab3 – Homepage

1	Use template to load products	- User-defined template
2	Create POST/GET endpoint (/add)	- Redirect to "add" endpoint
3	Define action on table rows to get product ID	- Update - Delete
4	Define modal (bootstrap/jquery/css)	
5	Implement toast message	Refer to toast slide
6	Upload file in NodeJS	Node.js Upload Files (w3schools.com)
7	Redirect	NodeJS - Redirect URL tutorial (Native and Express) with code examples - Nathan Sebhastian

Thank you