

- doctype tells the browser which version of HTML standard is used & how to render the page.
- What is the diff bet "display: none" & visibility: hidden.  
 → display: none removes the element from the flow & allowing other elements to fill in.  
 visibility: hidden: only hides the element, but space is allocated for it on the page.
- Difference b/w session & local storage.  
 → Session storage is available only when a browser's tab is opened.  
 → Local st. survives on closing & opening a browser.
- data attributes: data-attributes are used to store custom data directly inside HTML tag. They are easily accessible from CSS & JS.
- Normalise CSS & Reset CSS → Resetting removes all the native styles provided by browser.  
 Normalizing is just a collection of some common bugs.
- What are sprites, what is their purpose?  
 → CSS sprite is merging multiple images into a single image. It reduces the amount of web-requests & ↑ page speed.



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Also → Asynchronous JS is used for non-blocking object requests to communicate with server & make request to the server without reloading the page.

promise

The promise object represents the eventual completion (or failure) of an asynchronous operation & its resulting value.

A promise object supports 2 properties: state & result. While a promise object is "pending", the result is undefined. When a promise object is "fulfilled", the result is a value.

When a promise object is "rejected", the result is an error.

node JS: Node JS is a JS runtime built on Chrome's V8 JS engine. Node JS uses asynchronous programming.

Generally in C++ to get data a file request.

- ① sends the task to the computer file system
- ② wait while the file system opens & reads the file
- ③ Return the content to the client
- ④ Ready to handle the next request.

Here how nodeJS handle a file req.

- ① send the task to the computer file system
- ② Ready to handle the next req.
- ③ When the file system has opened & read the file, the server returns the content to the client.

NodeJS eliminates the waiting, & simply continues with the next request.

nodeJS runs single-threaded, non-blocking, asynchronously programming, which is very memory efficient.



provide robust set of features for web & mobile application.  
Express is a minimal & flexible web app framework for Node.js

Express → It provides built-in handlers for request with different HTTP verbs at different URL paths.

→ Add additional middleware at any pt. within the req. handling pipeline.

→ Integrate with view rendering engine in order to generate response by inserting data into templates.

→ Set common web application settings like the port to use for connecting to the server.

### React:

React.js is an open-source JS library that is used for building user interfaces, specially for single-page apps. React allows developers to create large web applications that can change data, without reloading the page. The main purpose of React is to be fast, scalable & simple.

### Redux

Redux manages the state of an entire application in a single place.



(NTML, CBS, JS, JS-Query, React/Redux)  
Node.js / Express / MongoDB

Date	OM
Page	Student Notebook

→ There is also a ~~unique~~ people for each order  
Adding or removing item to cart,  
payment option.

Shows order history & display to user

~~Not a static site~~ when we

Dedicated page to admin from which

They can easily add, remove any product.

They can see all the orders

It

→ problem that we face

When ever the user logged in, the session data is to be store  
in local storage, & then there is a possibility that anybody can  
alter the data from the local storage.

→ so we find out that there is inbuilt library (crypto)  
which encrypt & decrypt the data for us.

→ Because ~~the~~ ~~am~~ doing manual authentication, if the user get the  
id of the user from the database then they can easily alter  
it, he able using query parser instead of strong password.

(Lecture)