

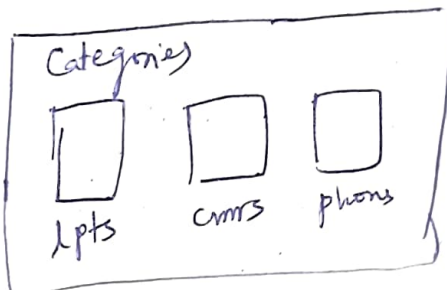
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Event delegation

Event delegation is based upon event bubbling.
It is a better way of handling events which travels up the hierarchy.

Case study:

We have e-commerce site having categories div, which have laptops, cameras, phones, etc.



Each element on clicking will lead to new URL.

Eg: e-commerce/laptops.

To implement on each click, we think of attaching click event listener to each category.

Eg: a) `document.getElementById("laptops").addEventListener('click', () => { ... })`

b) `docu.getElById("cameras").addElList('cl', () => { ... })`

* In this way we will try to give ^{attach} each category a new event listener which in turn turns the page into event listeners hanging every where.

Soln:

Here, event bubbling comes into picture, we will give click event listener to its parent.

`<div id="categories"> </div>` and have

This phenomenon is called event delegation.

Eg 1

- laptops
- cameras
- phones

[Code in github]

Required

Need to go to laptops link when clicked on its parent

Eg 2

<form>

[Code in github]

Required

When we type anything it should automatically convert to upper case, when attribute

Pros & Cons of Event Delegation

Pros

- 1) It improves a lot in memory
- 2) Writing less code
- 3) DOM Manipulation is much easier

Limitation

- 1) All the events are not bubbled up (Refer doc)
- 2) To use event delegation don't use event.stopPropagation