



SNS COLLEGE OF ENGINEERING

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An Autonomous Institution

Accredited by NAAC-UGC with 'A' Grade

Approved by AICTE, Recognized by UGC & Affiliated to Anna
University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

Course Code and Name : 19TS601 FULL STACK DEVELOPMENT

Unit 1 : JAVASCRIPT AND BASICS OF MERN STACK

Topic : Mutation Observer





Mutation observer

- A **MutationObserver** in JavaScript is an API that allows you to watch for changes in the DOM (Document Object Model) and react to those changes in real-time.
- It enables you to monitor changes such as element addition, removal, attribute changes, or text content modifications.
- It's a more efficient and modern way to observe DOM mutations compared to older methods like `setInterval()` or event listeners.



Mutation observer

- MutationObserver is a built-in object that observes a DOM element and fires a callback when it detects a change.
- MutationObserver is easy to use.
- First, we **create an observer** with a callback-function:

```
let observer = new MutationObserver(callback);
```

- And then attach it to a DOM node:

```
observer.observe(node, config);
```



- config is an object with boolean options “what kind of changes to react on”:
- childList – changes in the direct children of node,
- subtree – in all descendants of node,
- attributes – attributes of node,
- attributeFilter – an array of attribute names, to observe only selected ones.
- characterData – whether to observe node.data (text content),



ASSESSMENT

1. Define Mutation Observer.



Text Book:

1. Pro MERN Stack, Full Stack Web App Development with Mongo, Express, React, and Node, Vasan Subramanian, A Press Publisher, 2019.

Reference:

David Flanagan, “Java Script: The Definitive Guide”, O’Reilly Media, Inc, 7 th Edition, 2020

2. Matt Frisbie, “Professional JavaScript for Web Developers” Wiley Publishing, Inc, 4th Edition, ISBN: 978-1-119-36656-0, 2019



Thank
You!

