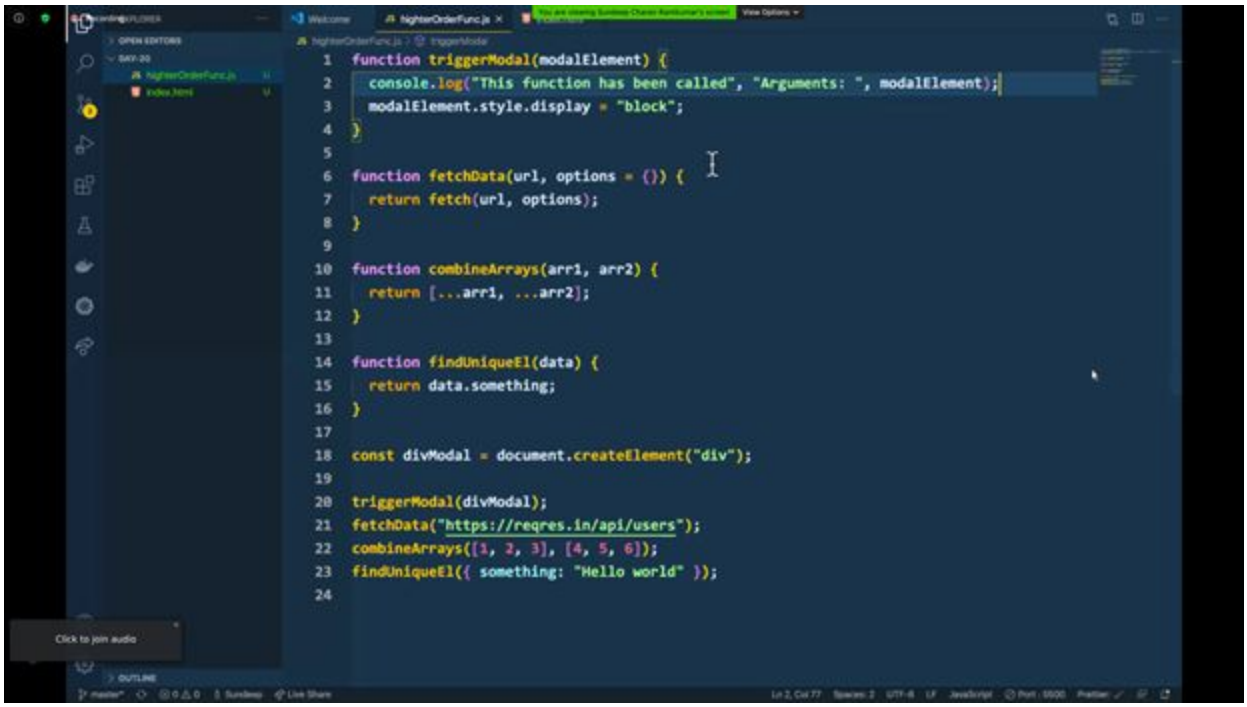
Date : 24 - 07 - 2020

Morning Session : 9 am – 11.00 PM

By ~ Sundeep Charan Ramkumar Today

Topics: Higher Order Components



If we want to have a logger statement,it becomes redundant to insert it everywhere.

So,we need to take help of higher order fn.

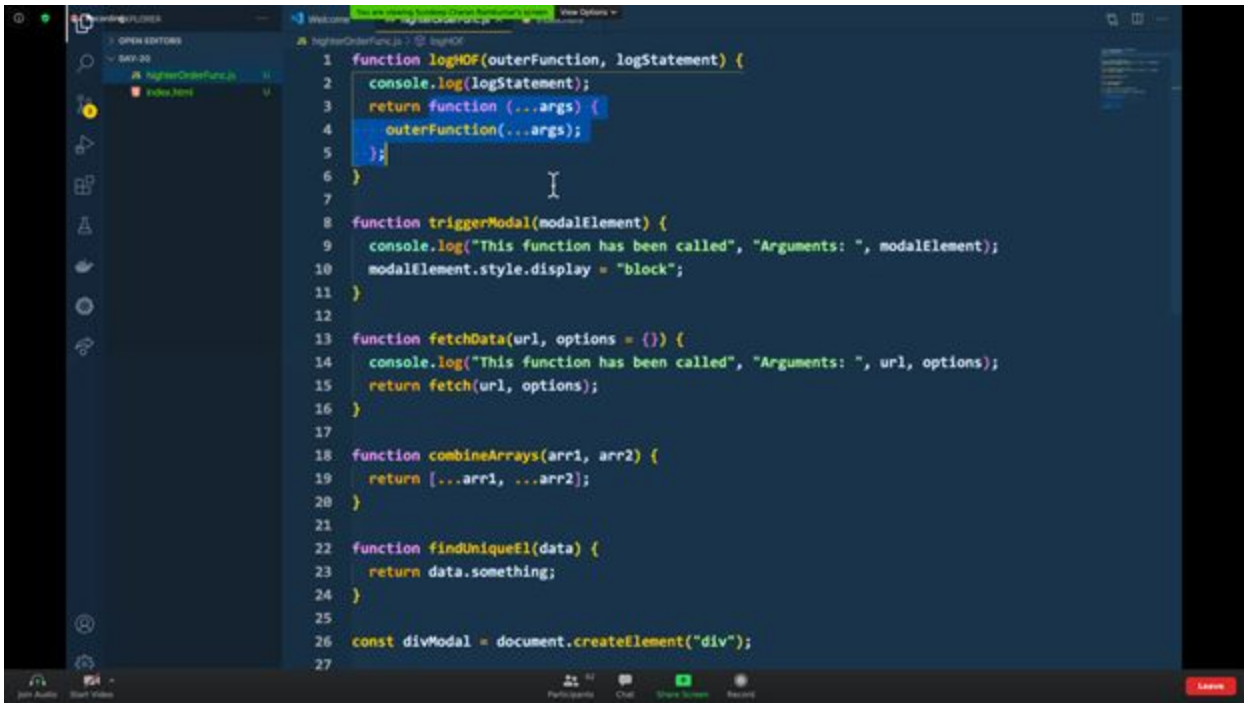
<u>Fundas</u>:

If you use … in invocation ⇒ scattering

If you use … in declaration ⇒ batching

Higher-Order Functions:

- They accept fn as an argument or return the fn or do both.
- The below-mentioned example would help you to understand

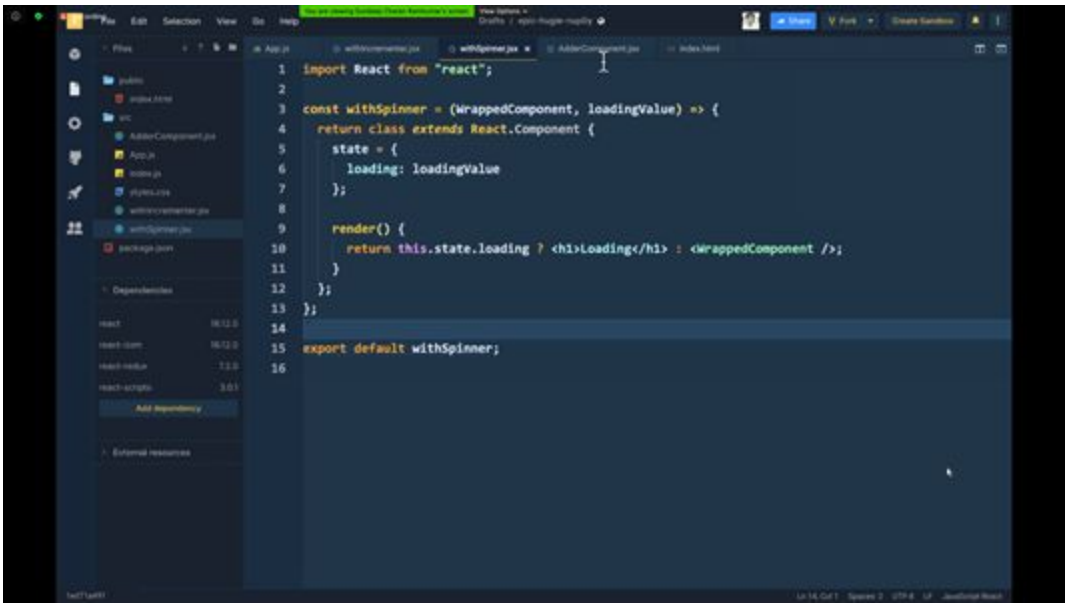


```
function logHOF(outerFunction, logStatement) {
  console.log(logStatement);
  return function (...args) {
    outerFunction(...args);
  };
}

function triggerModal(modalElement) {
  console.log("This function has been called", "Arguments: ", modalElement);
  modalElement.style.display = "block";
}

function fetchData(url, options = {}) {
  console.log("This function has been called", "Arguments: ", url, options);
  return fetch(url, options);
}

function combineArrays(arr1, arr2) {
  return [...arr1, ...arr2];
}

function findUniqueEl(data) {
  return data.something;
}

const divModal = document.createElement("div");
```

A simple way to see it: generalised

<u>Usage</u>:

- **Debouncing → waiting for the search to complete (delaying bouncing)**
- **To add a Spinner Component (with spinner)**



Debouncing:

Debouncing is nothing but reducing unnecessary time-consuming computations so as to increase browser performance. There are some scenarios in which some functionalities take more time to execute a certain operation. For instance, take an example of a search bar in an e-commerce website.

Note:

- **A higher-order component (HOC) is an advanced technique in React for reusing component logic. HOCs are not part of the React API, per se.**

They are a pattern that emerges from React's compositional nature

Resources:

https://reactjs.org/docs/higher-order-components.html

https://www.geeksforgeeks.org/debouncing-in-javascript/