**Day 5 :11 Aug 24**

**React JS performance**

**React Virtualization**

**Base upon event it load only those dom element on browser on demand.**

**One of the library we use ie react-window. This third party library help use to load the data on browser on demand.**

create-react-app react-with-virtualization

cd react-with-virtualization

npm install react-window

lazy loading components

lazy loading library help us to load the component or resource on demand.

In react we can use third party library ie react-lazy-load-image-component

create-react-app react-lazy-loading-app

cd react-lazy-loading-app

npm install react-lazy-load-image-component axios

react debouncing : it is a technique generally we use any web application to limit the rate at which a function is executed. Using this technique we can make delay for the function execution for particular time.

Example : search field, scrolling, or resizing etc.

create-react-app react-deboucing-app

cd react-deboucing-app

npm install lodash : it is a third party library which provide the debouncing features.

npm install axios

<https://dummyjson.com/users>

<https://dummyjson.com/users/search?q=Steven>

React memorization : this technique mainly used to optimization of the react application avoiding re-render unnecessary virtual dom content to actual dom.

Using three api we can avoid

1. React.memo
2. useMemo
3. useCallback

<input type=”search” name=”search-data” onKeyUp=”search()”/>