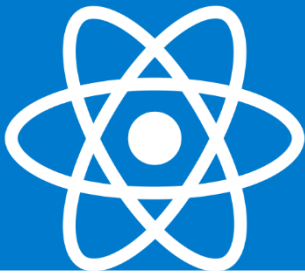




React JS Lazy Loading

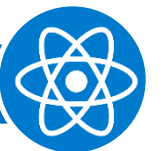
#React Notes

| Lazy Loading



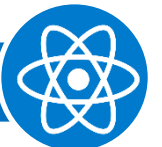
Lazy Loading

- Lazy loading allows us to load specific components only when they are needed. Typically, we also perform code splitting into logical components that can be lazy loaded with the content as well.
- By the version of 16.6, React has built in support for lazy loading components
- Lazy loading allows us to render components or elements on demand, making our app more efficient and providing a better user experience.



React Lazy and Suspense

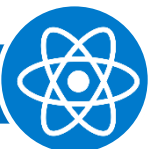
- React features that make code-splitting and lazy loading easy to implement - `React.lazy()` and `React.Suspense`.



React.lazy()

- is a function that allows us to render dynamic imports in the same way as regular components.
- Using dynamic imports alongside the React.lazy() will enable us to import a component just before it renders on a screen.
- An important thing to note is that React.lazy() accepts a function as an argument - that function must call the dynamic import() in its body.

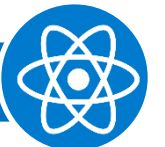
```
import { Suspense, lazy } from 'react';  
  
const Home = lazy(() => import('./Home'))  
  
<Home/>
```



React.Suspense

- enables us to specify the fallback prop which takes in a placeholder content that would be used as a loading indicator while all the lazy components get loaded.
- Suspense Component which helps to reflect some fallback content meanwhile the lazy component loads.

```
<Suspense fallback={<div>Loading Home Component </div>}>  
</Suspense>
```



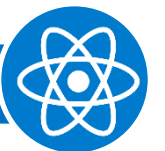
Home.js

- Create Home Component.

```
JS Home.js  X
src > JS Home.js > [e] default
1  function Home() {
2      return (
3          <div>
4              <h1>Home</h1>
5          </div>
6      );
7  }
8
9  export default Home;
```

```
function Home() {
    return (
        <div>
            <h1>Home</h1>
        </div>
    );
}

export default Home;
```



Code

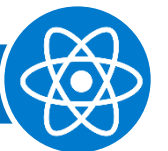
```
App.js
src > App.js > default
1  import React from 'react'
2  import { Suspense, lazy } from 'react';
3
4  const Home = lazy(() => import('./Home'))
5
6  function App() {
7    return (
8      <React.Fragment>
9        <h1>Lazy Loading Demo</h1>
10       <Suspense fallback={<div>Loading Home Component </div>}>
11         <Home/>
12       </Suspense>
13     </React.Fragment>
14   );
15 }
16
17 export default App;
```

```
import React from 'react'
import { Suspense, lazy } from 'react';

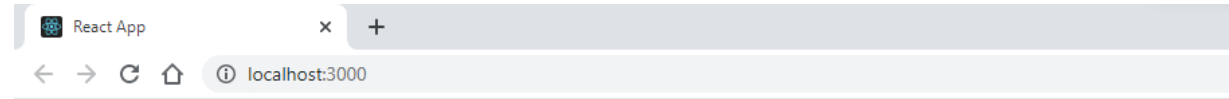
const Home = lazy(() => import('./Home'))

function App() {
  return (
    <React.Fragment>
      <h1>Lazy Loading Demo</h1>
      <Suspense fallback={<div>Loading Home Component </div>}>
        <Home/>
      </Suspense>
    </React.Fragment>
  );
}

export default App;
```

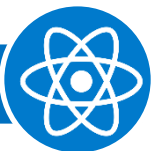
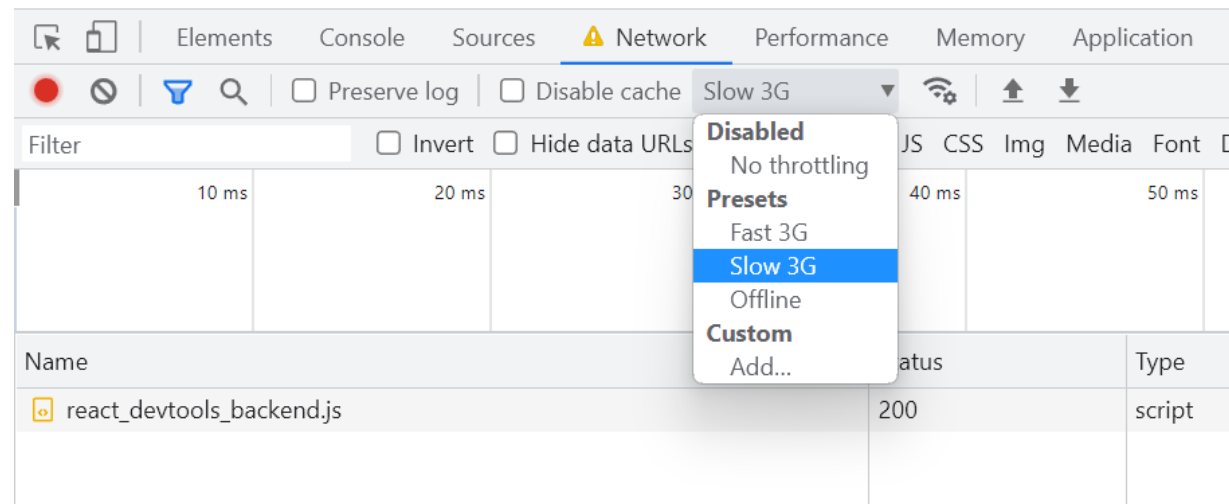


Change Network Speed



Lazy Loading Demo

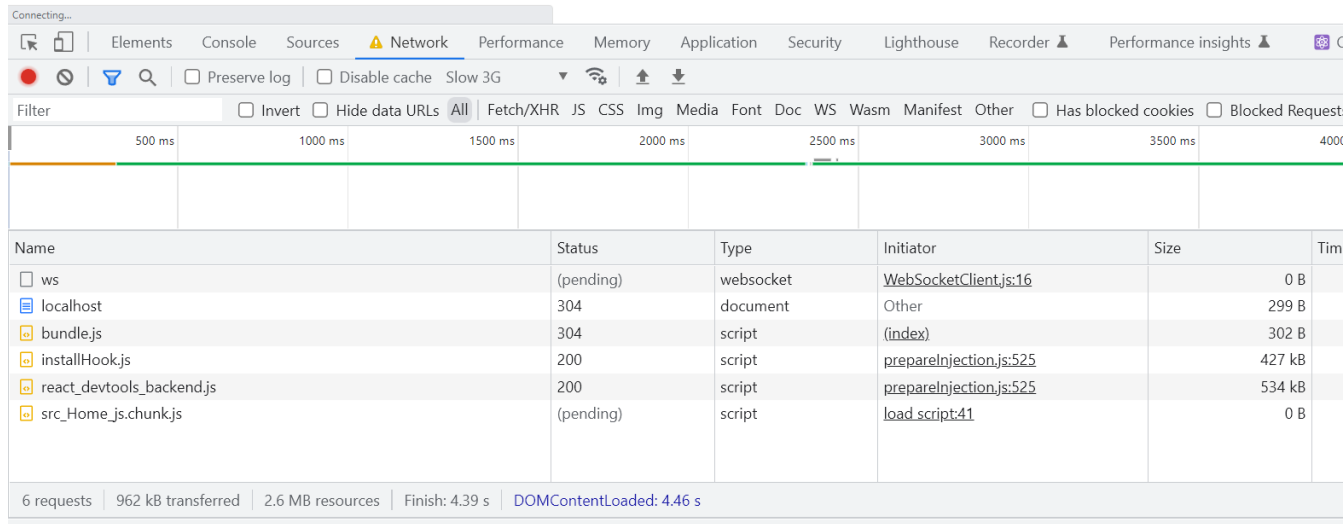
Home



Lazy....Loading.... 😊

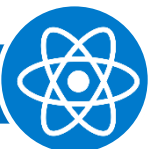
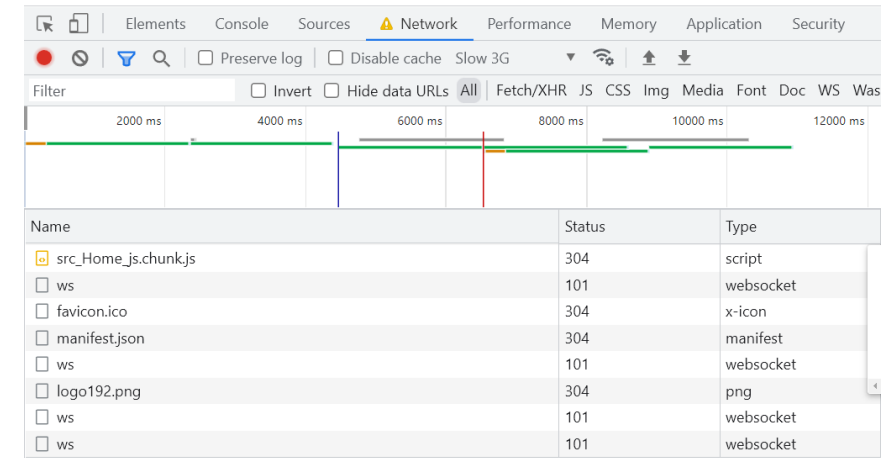
Lazy Loading Demo

Loading Home Component



Lazy Loading Demo

Home

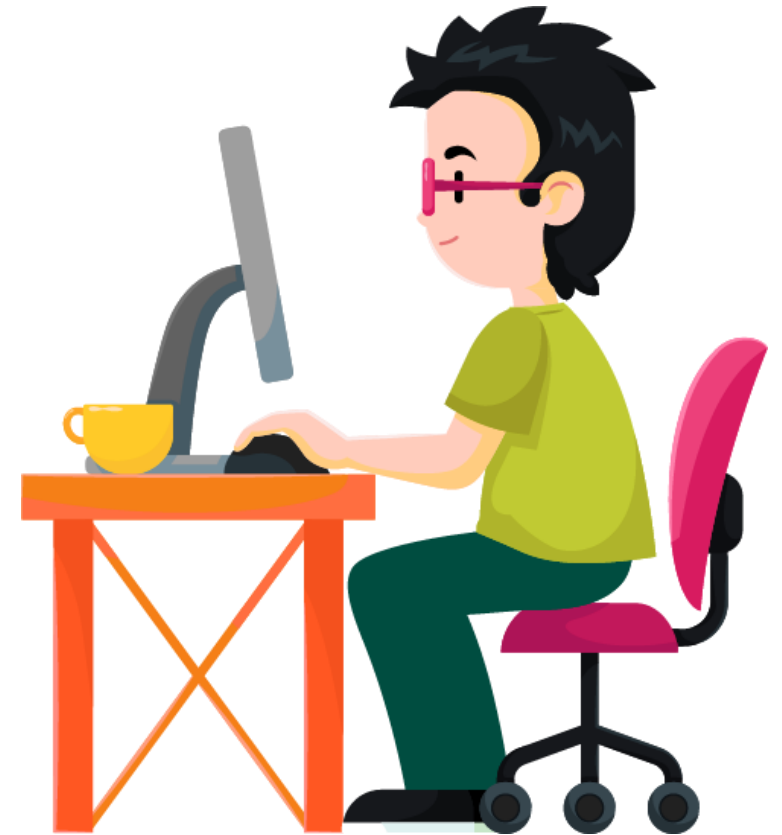


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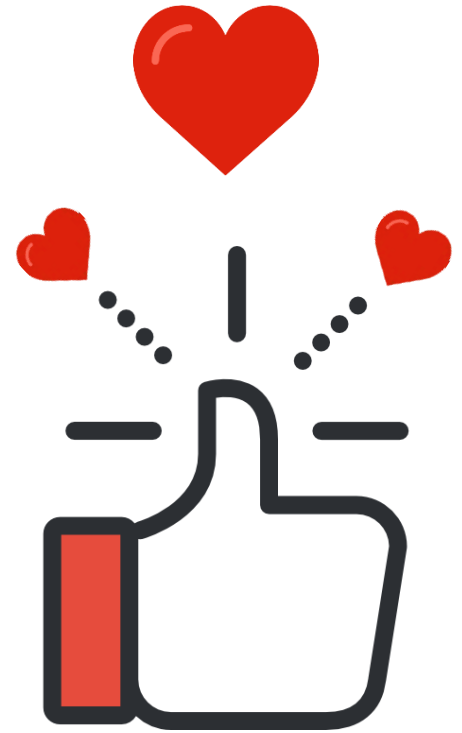
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