Classes in JS

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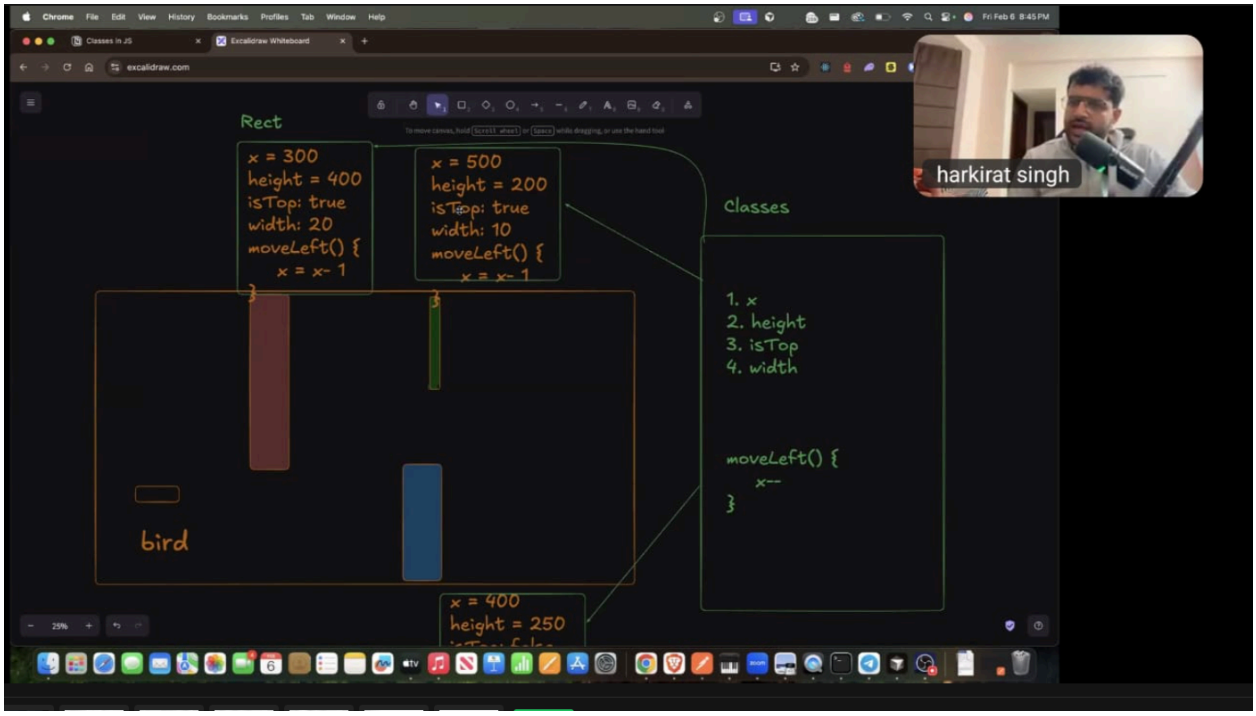

Inheritance in classes

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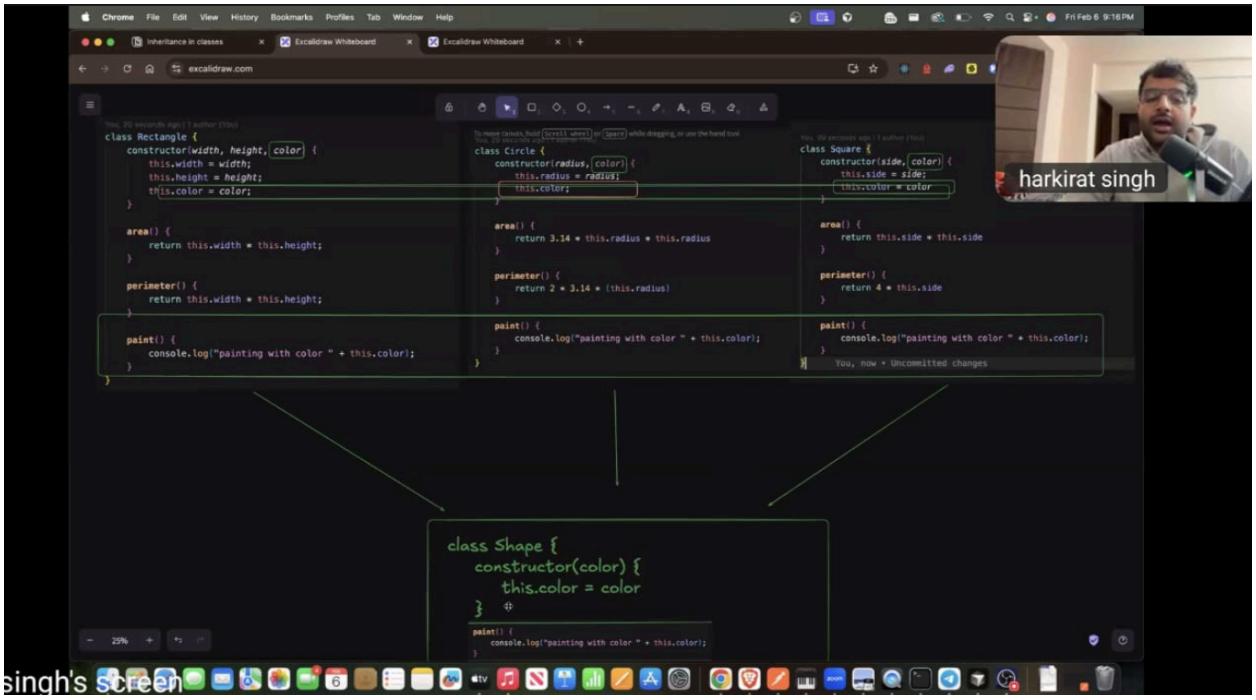
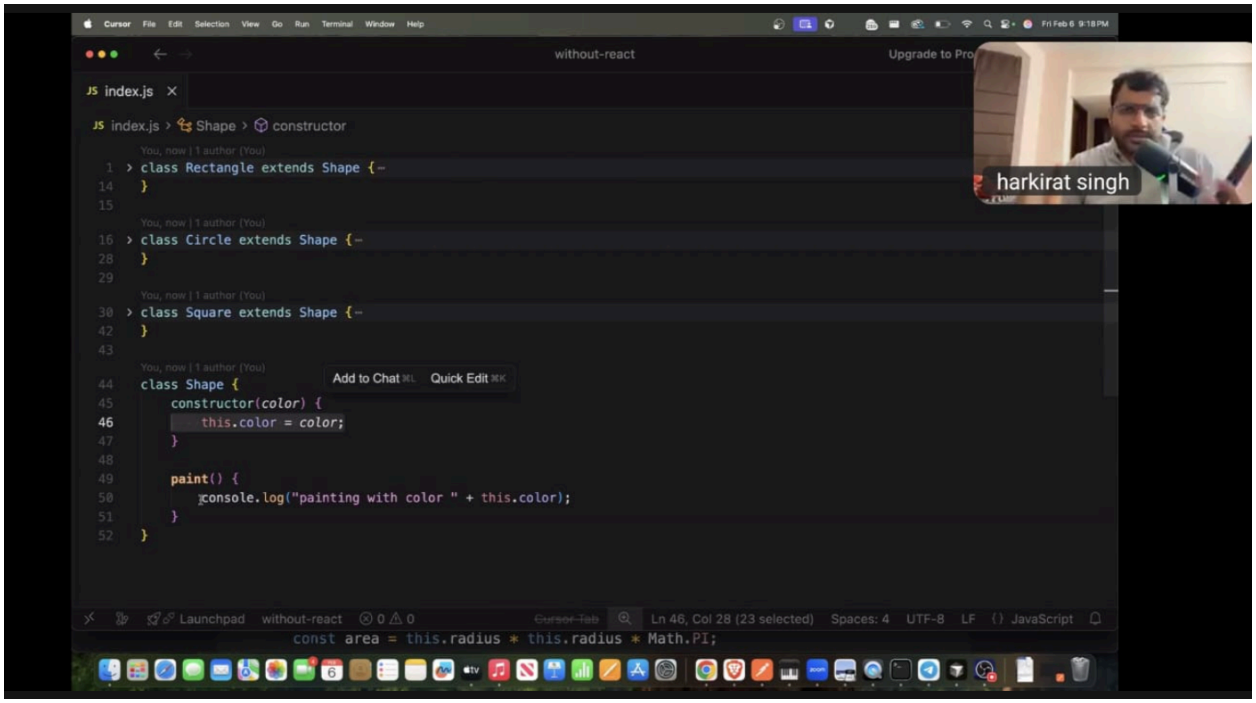




Some more classes

Date

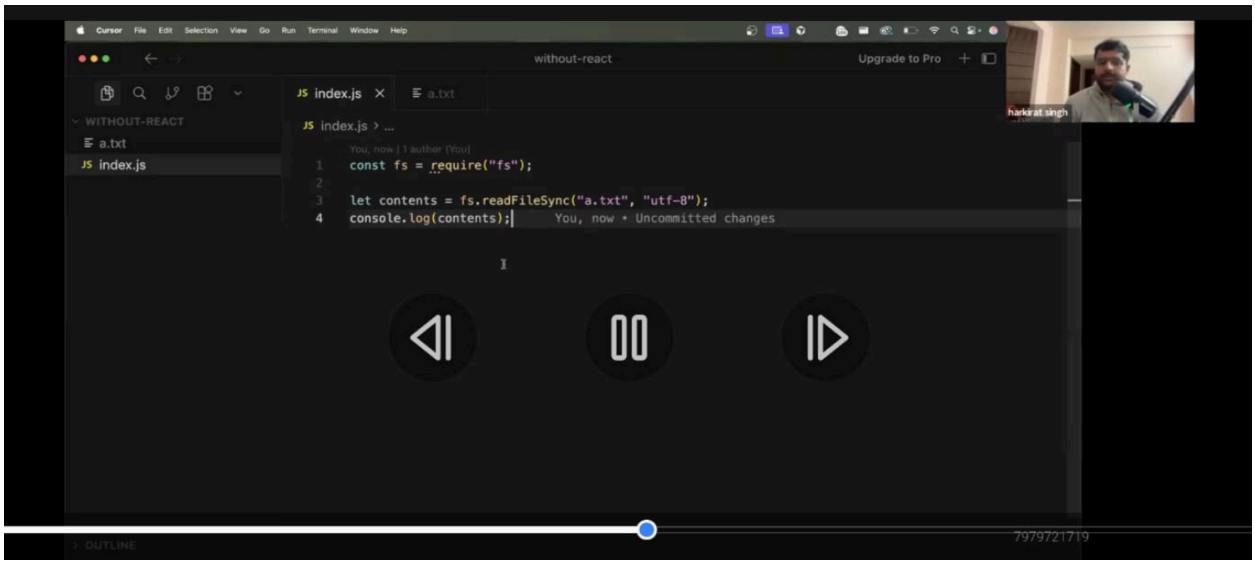
```
const now = new Date(); // Current date and time
console.log(now.toISOString()); // Outputs the date in ISO format
```

Maps

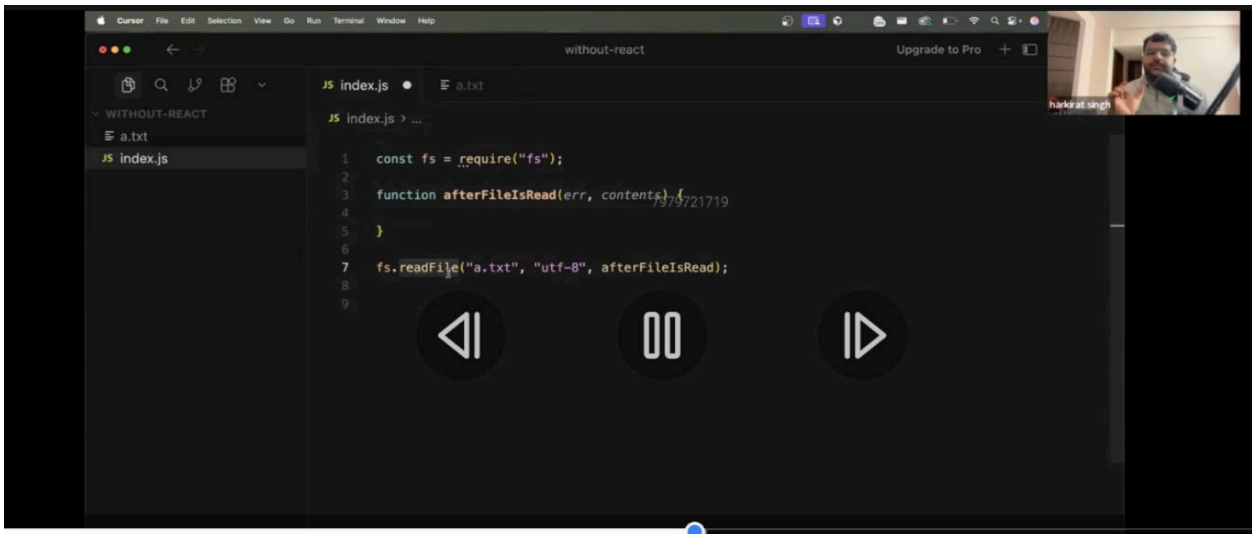
```
const map = new Map();
map.set('name', 'Alice');
map.set('age', 30);
console.log(map.get('name'));
```

Promise class

1. Synchronous code



2. Asynchronous code

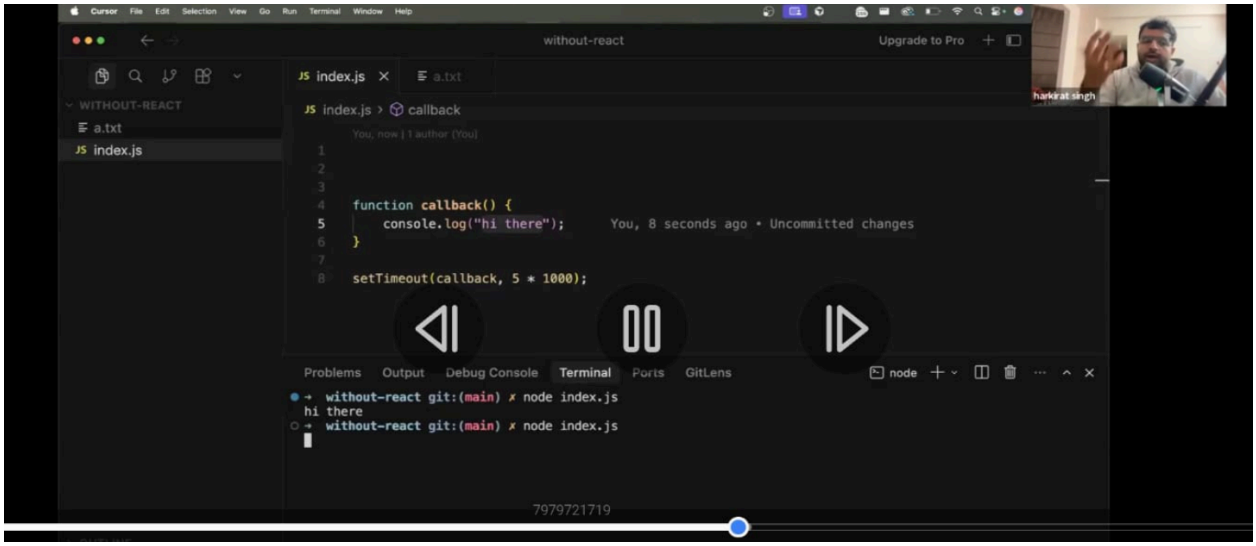


Using a function that returns a promise

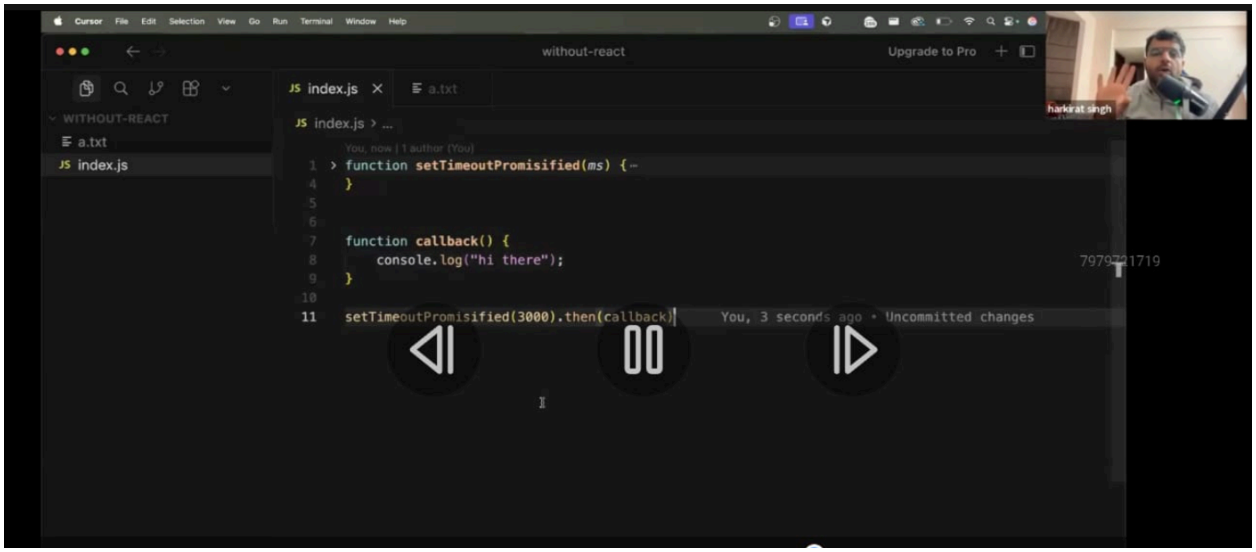
Ignore the function definition of `setTimeoutPromisifed` for now

```
function setTimeoutPromisified(ms) {
  return new Promise(resolve => setTimeout(resolve, ms));
}

function callback() {
  console.log("3 seconds have passed");
}

setTimeoutPromisified(3000).then(callback)
```

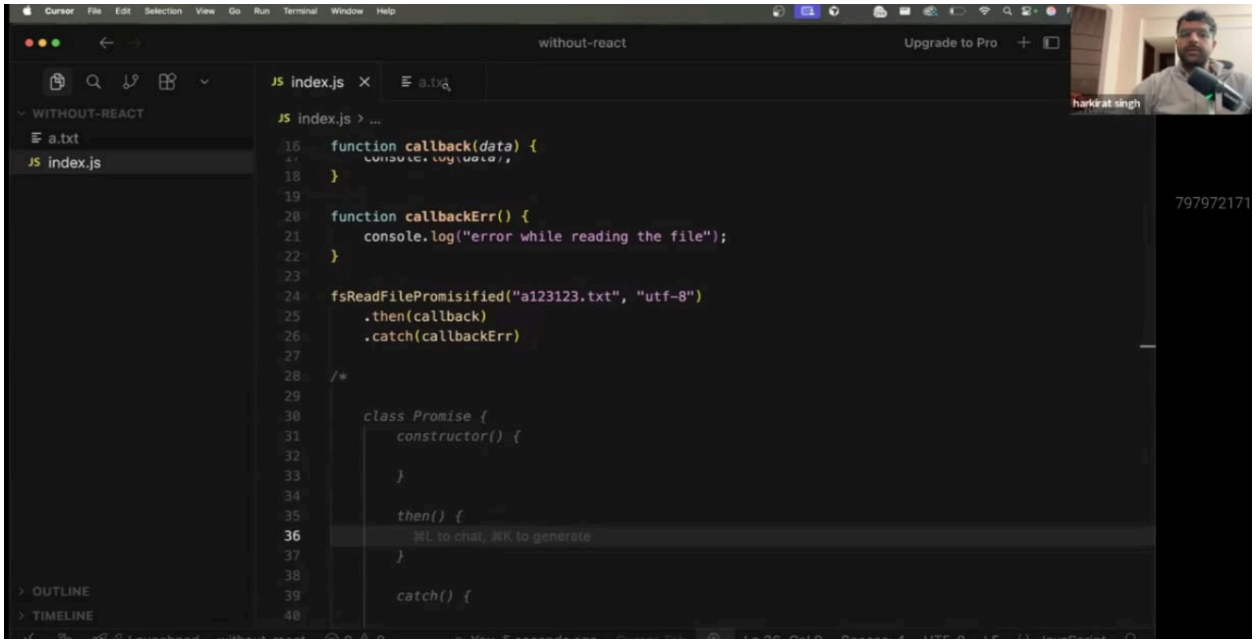
We use below now also

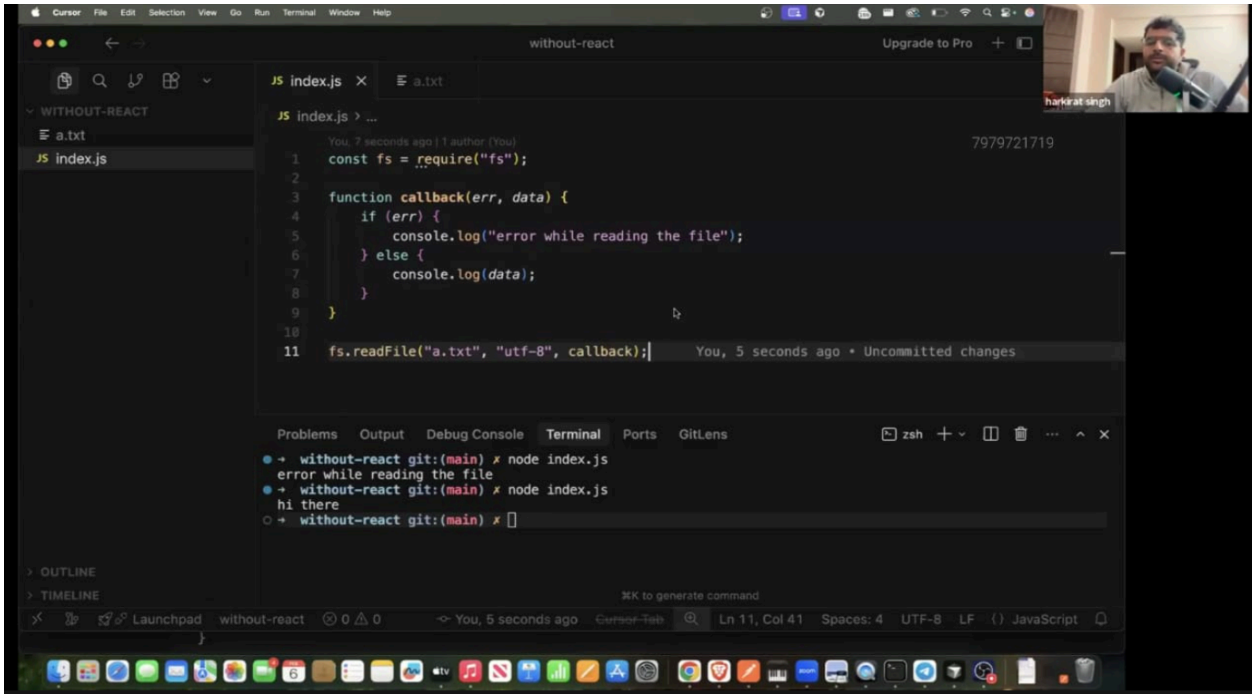

without-react
Upgrade to Pro
harkirat singh
WITHOUT-REACT
a.txt
index.js
index.js > callback
You, now | 1 author (You)
function callback() {
console.log("hi there");
You, 8 seconds ago • Uncommitted changes
}
setTimeout(callback, 5 * 1000);
Problems
Output
Debug Console
Terminal
Ports
GitLens
node
without-react git:(main) ✗ node index.js
hi there
without-react git:(main) ✗ node index.js
7979721719


Promisified version
setTimeoutPromisified(3000).then(callback)
Callback version
setTimeout(callback, 3000);

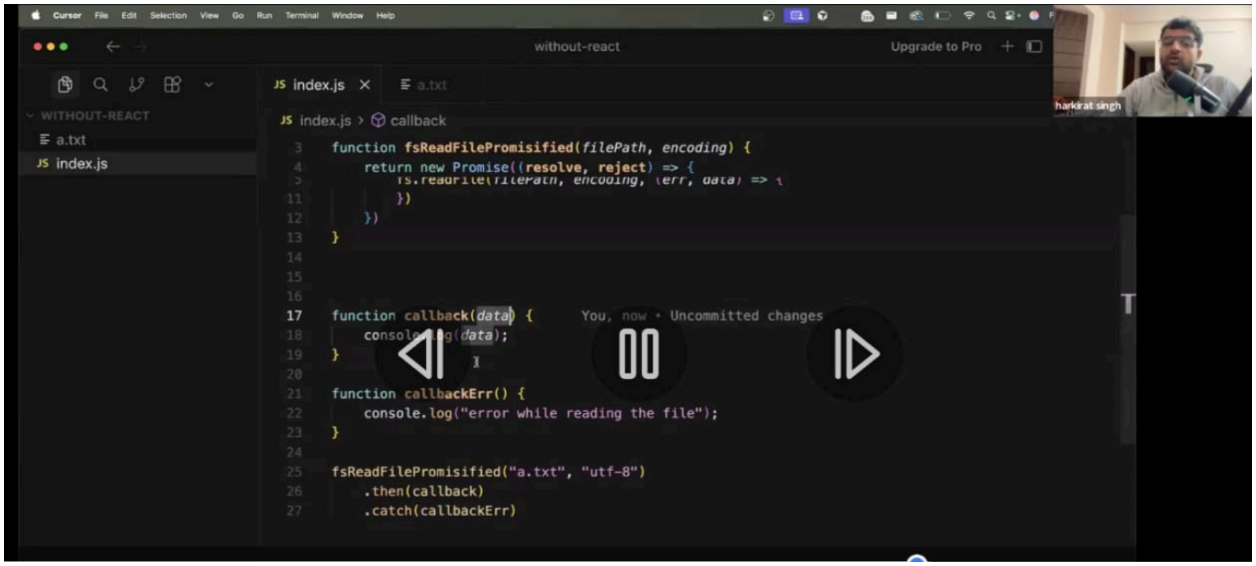


At bottom on the line there is promise class






```
function fsReadFilePromisified(filePath, encoding) {
    return new Promise((resolve, reject) => {
        fs.readFile(filePath, encoding, (err, data) => {
            if (err) {
                reject(err)
            } else {
                resolve(data);
            }
        })
    })
}
```



.then, .catch, pending concept in promise

Callback hell:
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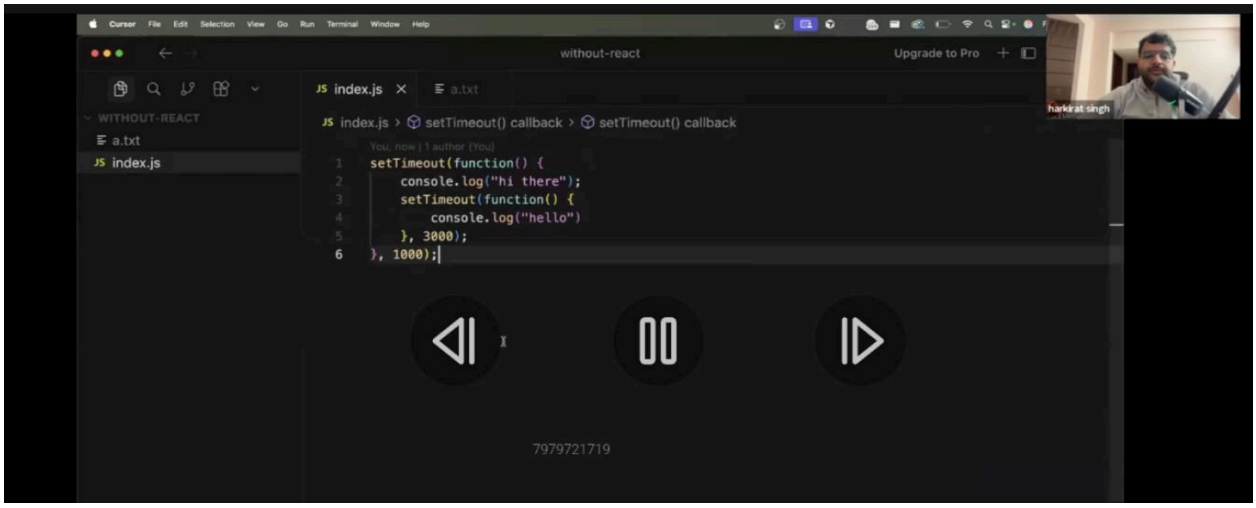

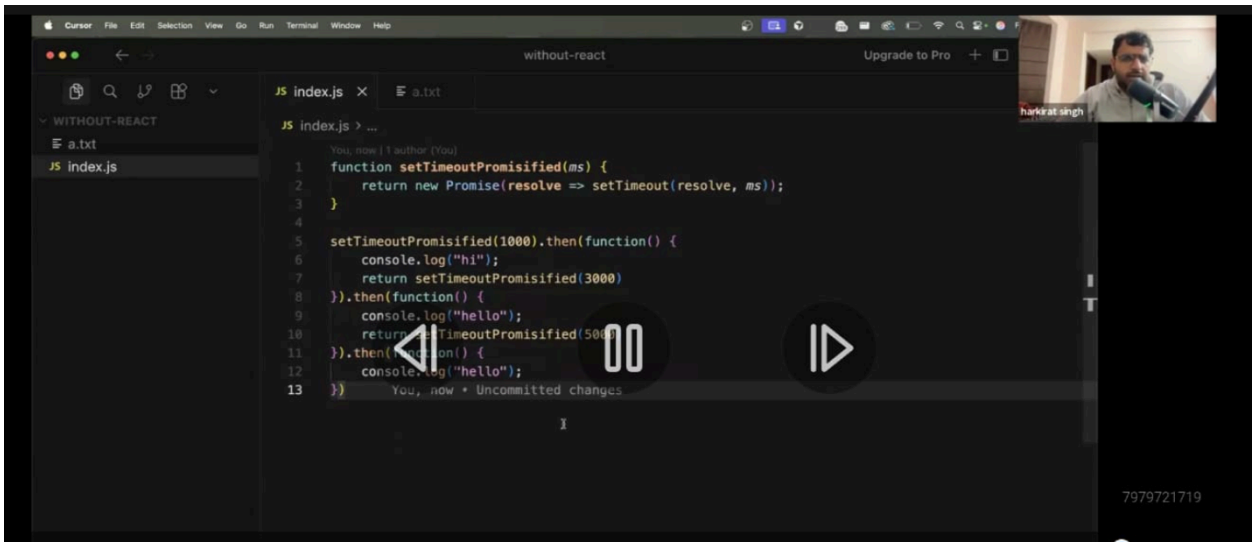
without-react
Upgrade to Pro
WITHOUT-REACT
a.txt
index.js
index.js > ...
You, now | 1 author (You)
function setTimeoutPromisified(ms) {
return new Promise(resolve => setTimeout(resolve, ms));
}
setTimeoutPromisified(1000).then(function() {
console.log("hi");
return setTimeoutPromisified(3000)
}).then(function() {
console.log("hello");
console.log("hello");
}) You, now • Uncommitted changes
harkirat singh
7979721719