

Overview of Incremental Project, Node.js File System, Async Programming, Event Emitters

Node.js Accelerator – Jan'23

Agenda

1. Overview of incremental project

2. Http module

3. Operations associated with File System Module

4. Callback hell, Promises and Async/await

5. Events



Node.js Accelerator

Jan'2023

Project overview

More on modules in this [link](#)

Some core Node.JS important built-in modules

- fs
- path
- os
- http
- streams

More on modules in this [link](#)

Working with Events

More on modules in this [link](#)

Working with File System

More on modules in this [link](#)

Quick comparison

Callbacks	Promises	Async/await
<pre>function doSomething() { console.log("A"); setTimeout(() => { console.log("B"); }, 300); console.log("C") } doSomething();</pre>	<pre>const doSomething = new Promise((resolve, reject) => { //do something... resolve(); }) doSomething .then((successMsg) => { console.log(successMsg); }) .catch((errorMsg) => { console.log(errorMsg); });</pre>	<pre>(async () => { await doSomething(); }) (); ... async function printMyAsync() { await printString("one") await printString("two") await printString("three") }</pre>

More on this [link](#)

Callback hell sample

```
fs.readdir(source, function (err, files) {  
  if (err) {  
    console.log('Error finding files: ' + err)  
  } else {  
    files.forEach(function (filename, fileIndex) {  
      console.log(filename)  
      gm(source + filename).size(function (err, values) {  
        if (err) {  
          console.log('Error identifying file size: ' + err)  
        } else {  
          // another loop  
        }  
      })  
    })  
  }  
})  
})  
})
```

More on callback hell in this [link](#)

Working with Events

More on modules in this [link](#)



ACTION ITEMS

Week 2

1. We strongly recommend you to explore below module through Udemy this week and learn about Node.js essentials

Module	Topic	Description	Udemy Link	
Self-paced learning on Udemy	Optional : TypeScript	Get started with TypeScript, understand basic types, OOPs concepts, advanced types & custom types, generics, decorators	Click Here	8hr 27min
Self-paced learning on Udemy	Node Core Modules, Async programming	Understand core modules in node.js like file system, http, learn about command line args, async programming i.e. http requests, handling errors, callback functions	Click Here	5hr 51min

