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# JAVA SCRIPT

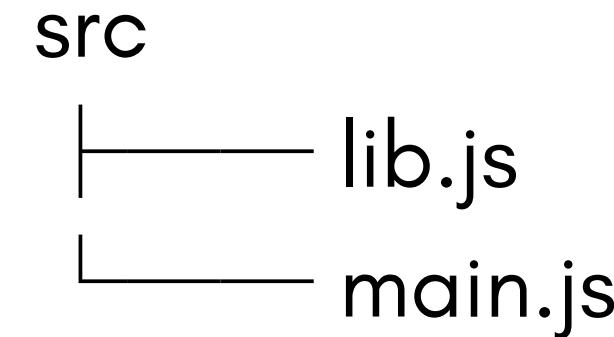
Módulos

# Cenários

```
function sum(a, b) {  
    return a + b;  
}  
  
console.log(sum(2, 1)); //=> 3
```

# Cenário 1.1 - Uma função no CJS

```
function sum(a, b) {  
    return a + b;  
}  
  
module.exports = sum;
```



```
const sum = require('./lib.js');  
  
console.log(sum(2, 1)); //=> 3
```

# Cenário 1.2 - Uma função no ESM

```
function sum(a, b) {  
    return a + b;  
}
```

```
export default sum;
```

```
import sum from './lib.js';  
  
console.log(sum(2, 1)); //=> 3
```

```
src  
  └── lib.js  
  └── main.js
```

**Warning: To load an ES module, set “type”: “module” in the package.json or use the .mjs extension.**

# Para corrigir o erro - package.json

```
{  
  "name": "module-esm-default",  
  "version": "1.0.0",  
  "description": "",  
  "main": "main.js",  
  "type": "module",  
  "scripts": {  
    "test": "echo \\\"Error: no test specified\\\" && exit 1"  
  },  
  "keywords": [],  
  "author": "",  
  "license": "ISC"  
}
```

# Cenário 2.1 - Várias funções no CJS

```
function sum(a, b) {  
    return a + b;  
}  
  
function minus(a, b) {  
    return a - b;  
}  
  
module.exports = { sum, minus };
```

```
const { sum, minus } = require('./lib.js');  
  
console.log(sum(2, 1)); //=> 3  
console.log(minus(2, 1)); //=> 1
```

# Cenário 2.2 - Várias funções no ESM

```
function sum(a, b) {  
    return a + b;  
}  
  
function minus(a, b) {  
    return a - b;  
}  
  
export { sum, minus };
```

```
import { sum, minus } from './lib.js';  
  
console.log(sum(2, 1)); //=> 3  
console.log(minus(2, 1)); //=> 1
```

# Named e Default

```
export const PI = 3.14;  
export function sum(a, b) {  
    return a + b;  
}  
export function minus(a, b) {  
    return a - b;  
}  
export default { sum, minus, PI };
```

```
import Math, { sum } from './lib.js';  
  
console.log(sum(2, 1));  
console.log(Math.minus(1, 1));
```

# NPM

```
export const PI = 3.14;  
export function sum(a, b) {  
    return a + b;  
}  
export function minus(a, b) {  
    return a - b;  
}  
export default { sum, minus, PI };
```

```
import { sqrt } from 'mathjs';  
import Math, { sum } from './lib.js';  
  
console.log(sum(2, 1));  
console.log(Math.minus(1, 1));  
  
console.log(sqrt(16));
```

```
$ npm install mathjs
```

# Obrigada!

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