

# Manejo de errores con Boom

De acuerdo a lo que hemos visto en el curso, hay que tener en cuenta que **TODO** puede fallar, es la razón por la cual se trabaja tanto el tema de aprender a manejar y capturar errores, dado que por cómo funciona Node si un error no es capturado detendrá toda la aplicación.

Así podemos implementar el error en le middleware:

```
1  /* eslint-disable no-console */
2  const logErrors = (err, req, res, next) => {
3    console.info('1. logErrors');
4    console.error(err);
5    next(err);
6  }
7
8  const errorHandler = (err, req, res, next) => {
9    console.log('2. errorHandler');
10   res.status(500)
11   .json({
12     message: err.message,
13     stack: err.stack
14   });
15   next(err);
16 }
17
18 const boomErrorHandler = (err, req, res, next) => {
19   console.log('3. boomErrorHandler');
20   if(err.isBoom){
21     const { output } = err;
22     res.status(output.statusCode)
23     .json(output.payload);
24   }
25   next(err);
26 }
27
28 module.exports = {
29   logErrors,
30   errorHandler,
31   boomErrorHandler
32 };
33
```

Realizar la importación en el index:

```
1 const express = require('express');
2 const { boomErrorHandler, errorHandler, logErrors } = require(
  './middlewares/error.handler');
3 const routersApi = require('./routes')
4 const app = express();
5 const port = 3021;
6
7 app.use(express.json())
8
9 app.get('/', (req, res) => {
10   res.writeHead(200, { 'Content-Type': 'html' })
11   res.write('<div>Hello World</div>')
12   res.end()
13 })
14
15 routersApi(app)
16
17 app.use(logErrors);
18 app.use(boomErrorHandler);
19 app.use(errorHandler);
20
21 app.listen(port, () => {
22   // eslint-disable-next-line no-console
23   console.log(`Server up and listening on port ${port}`)
24 })
25
```

Para luego implementarlos en services:

```
1 const fakerJs = require('@faker-js/faker');
2 const boom = require('@hapi/boom');
3 const { v4 } = require('uuid');
4 const uuidv4 = v4;
5
6 class ProductServices {
7
8   constructor() {
9     this.products = this.generate(100)
10   }
11
12   generate (size) {
13     const limit = size ? size : 100
14     const fakedProducts = []
15     for(let i = 0; i < parseInt(limit); i++){
16       fakedProducts.push({
17         id: uuidv4(),
18         name: fakerJs.faker.commerce.product(),
19         price: parseInt(fakerJs.faker.commerce.price(), 10),
20         image: fakerJs.faker.image.imageUrl(),
21         isBlocked: fakerJs.faker.datatype.boolean(),
22       });
23     }
24     return fakedProducts;
25   }
26
27   async create (product) {
28     return new Promise((resolve, reject) => {
29       try{
30         setTimeout(()=>{
31           this.products.push(product);
32           resolve(this.findOne(product.id));
33         },1000);
34       }catch(e){
35         reject(e);
36       }
37     })
38   }
39
40   async find (size) {
41     return new Promise((resolve, reject)=>{
42       try{
43         setTimeout(()=>{
44           let counter = 0
45           const limit = size ? parseInt(size) : 100
46           const results = this.products.filter(p=>{
47             if(counter < limit) {
48               counter++;
49               return p;
50             }
51           });
52           resolve(results);
53         },2000);
54       }catch(e){
55         reject(e)
56       }
57     });
58   }
59
60   async findOne (id) {
61     return new Promise((resolve, reject)=>{
62       try{
63         setTimeout(()=>{
64           const result = this.products.filter(p => {
65             if(id === p.id) return p;
66           })
67           if(result.length==0)
68             reject(boom.notFound('Product not found'));
69           else if(result[0].isBlocked)
70             reject(boom.conflict('The product is blocked'));
71           else resolve(result[0]);
72         },1000);
73       }catch(e){
74         reject(e);
75       }
76     })
77   }
78
79   async update (product) {
80     return new Promise((resolve, reject)=>{
81       try{
82         setTimeout(()=>{
83           const index = this.products.findIndex(p=>p.id==product.id);
84           if(index < 0) reject(boom.notFound('Product not found'));
85           this.products.map(p=>{
86             if(p.id === product.id){
87               p.name = product.name ? product.name : p.name;
88               p.price = product.price ? product.price : p.price;
89               p.image = product.image ? product.image : p.image;
90             }
91           })
92           resolve(this.products.filter(p=>{
93             if(p.id === product.id) return p;
94           }));
95         },1000);
96       }catch(e){
97         reject(e)
98       }
99     })
100   }
101
102   async delete (id) {
103     return new Promise((resolve, reject)=>{
104       try{
105         setTimeout(()=>{
106           const index = this.products.findIndex(p=>p.id==id);
107           if(index < 0) reject(boom.notFound('Product not found'));
108           this.products = this.products.splice(index, 1);
109           resolve('Product deleted successfully');
110         },1000);
111       }catch(e){
112         reject(e)
113       }
114     })
115   }
116 }
117
118 module.exports = ProductServices;
119
120
```