



```
C:\WINDOWS\system32\cmd.exe

E:\laboratorio>mkdir api-express-node-simple

E:\laboratorio>cd api-express-node-simple

E:\laboratorio\api-express-node-simple>npm init --yes
Wrote to E:\laboratorio\api-express-node-simple\package.json:

{
  "name": "api-express-node-simple",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}

E:\laboratorio\api-express-node-simple>mkdir src

E:\laboratorio\api-express-node-simple>code .
```

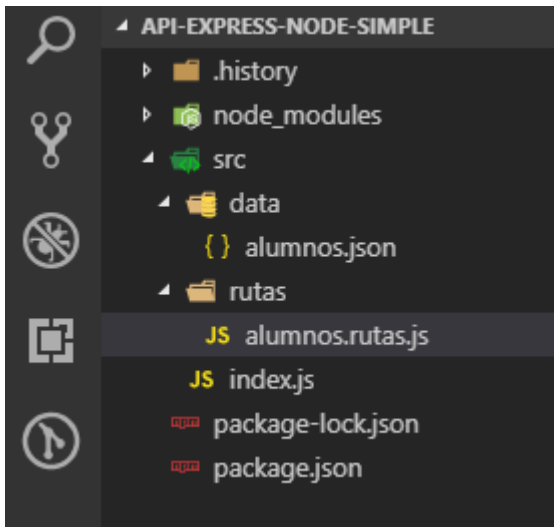
Módulos

```
C:\WINDOWS\system32\cmd.exe

E:\laboratorio\api-express-node-simple>npm i express morgan
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN api-express-node-simple@1.0.0 No description
npm WARN api-express-node-simple@1.0.0 No repository field.

+ morgan@1.9.1
+ express@4.16.4
added 51 packages from 36 contributors and audited 130 packages in 13.666s
found 0 vulnerabilities

E:\laboratorio\api-express-node-simple>_
```



/package.json

```
{
  "name": "api-express-node-simple",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "start": "node src/."
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "dependencies": {
    "express": "^4.16.4",
    "morgan": "^1.9.1"
  }
}
```



/src/data/alumnos.json

```
[
  {
    "id": 1,
    "nombres": "Ana",
    "apellidos": "Gomez",
    "doc_identidad": 123456
  }
]
```

/src/index.js

```
const express = require('express');
const morgan = require('morgan');
const app = express();

// settings
app.set('port', process.env.PORT || 3000);

// middlewares
app.use(morgan('dev'));
app.use(express.urlencoded({extended: false}));
app.use(express.json());

// routes
app.use('/api-cognos/alumnos', require('./rutas/alumnos.rutas'));

// starting the server
app.listen(app.get('port'), () => {
  console.log(`Server on port ${app.get('port')}`);
});
```

/src/rutas/alumnos.rutas.js

```
const { Router } = require('express');
const router = new Router();

const alumnos = require('../data/alumnos.json');

router.get('/', (req, res) => {
  res.json({estado:'OK',mensaje:'',datos:alumnos});
});

router.get('/:id', (req, res) => {
  const id = parseInt(req.params.id);
  const alumno = alumnos.find(alumno => alumno.id === id);
  const datos = [];
  if (alumno) {
    datos.push(alumno);
    res.json({estado:'OK',mensaje:'',datos});
  }
  else res.json({estado:'ERROR',mensaje:'no encontrado',datos});
});

router.post('/', (req, res) => {
  const id = alumnos.length + 1;
  const { nombres, apellidos, doc_identidad } = req.body;
  const alumno = alumnos.find(alumno => alumno.doc_identidad === doc_identidad);
  if (alumno) res.json({estado:'ERROR',mensaje:'alumno ya existe',datos:[]});
  else {
    alumnos.push({id, nombres, apellidos, doc_identidad});
    res.json({estado:'OK',mensaje:'se inserto con exito',datos:[{ nombres, apellidos, doc_identidad }]});
  }
});
```



```
router.put('/:id', (req, res) => {
  const id = parseInt(req.params.id);
  const { nombres,apellidos,doc_identidad } = req.body;
  const index = alumnos.findIndex(alumno=>alumno.id===id);
  if(index !== -1){
    alumnos[index] = {id,nombres,apellidos,doc_identidad};
    res.json({estado:'OK',mensaje:'se actualizo con exito',datos:[{ nombres,apellidos,doc_identidad }]});
  } else res.json({estado:'ERROR',mensaje:'registro no encontrado',datos:[]});
});

router.delete('/:id', (req, res) => {
  const id = parseInt(req.params.id);
  const index = alumnos.findIndex(alumno=>alumno.id===id);
  if(index !== -1){
    alumnos.splice(index,1);
    res.json({estado:'OK',mensaje:'registro eliminado',datos:[]});
  } else res.json({estado:'ERROR',mensaje:'registro no encontrado',datos:[]});
});

module.exports = router;
```

```
npm
E:\laboratorio\api-express-node-simple>npm start

> api-express-node-simple@1.0.0 start E:\laboratorio\api-express-node-simple
> node src/.

Server on port 3000
GET /api-cognos/alumnos/ 200 4.468 ms - 106
POST /api-cognos/alumnos 200 15.718 ms - 121
POST /api-cognos/alumnos 200 0.718 ms - 121
POST /api-cognos/alumnos 200 0.411 ms - 126
GET /api-cognos/alumnos/ 200 0.320 ms - 321
GET /api-cognos/alumnos/3 200 0.837 ms - 108
POST /api-cognos/alumnos 200 0.462 ms - 123
GET /api-cognos/alumnos/3 200 0.260 ms - 108
GET /api-cognos/alumnos/ 200 0.234 ms - 393
```

GET ▼ http://localhost:3000/api-cognos/alumnos/

Pretty

Raw

Preview

JSON ▼



```
1 {  
2   "estado": "OK",  
3   "mensaje": "",  
4   "datos": [  
5     {  
6       "id": 1,  
7       "nombres": "Ana",  
8       "apellidos": "Gomez",  
9       "doc_identidad": 123456  
10    },  
11    {  
12      "id": 2,  
13      "nombres": "Jorge",  
14      "apellidos": "Chavez",  
15      "doc_identidad": 451278  
16    },  
17    {  
18      "id": 3,  
19      "nombres": "Luis",  
20      "apellidos": "Galves",  
21      "doc_identidad": 344566  
22    }  
23  ]  
24 }
```



POST http://localhost:3000/api-cognos/alumnos

Params Authorization Headers (1) Body Pre-request Script Tests

none form-data x-www-form-urlencoded raw binary JSON (application/json)

```
1 {
2   "nombres": "Jorge",
3   "apellidos": "Chavez",
4   "doc_identidad": 451278
5 }
```

Body Cookies Headers (6) Test Results

Pretty Raw Preview JSON

```
1 {
2   "estado": "OK",
3   "mensaje": "se inserto con exito",
4   "datos": [
5     {
6       "nombres": "Jorge",
7       "apellidos": "Chavez",
8       "doc_identidad": 451278
9     }
10  ]
11 }
```

GET

http://localhost:3000/api-cognos/alumnos/2

Params

Authorization

Headers

Body

Pre-request Script

Tests

☒ none

☐ form-data

☐ x-www-form-urlencoded

☐ raw

☐ binary

This request does not have a body

Body

Cookies

Headers (6)

Test Results

Pretty

Raw

Preview

JSON

1

{

2

"estado": "OK",

3

"mensaje": "",

4

"datos": [

5

{

6

"id": 2,

7

"nombres": "Jorge",

8

"apellidos": "Chavez",

9

"doc_identidad": 451278

10

}

11

]

12

}



PUT http://localhost:3000/api-cognos/alumnos/3

Params Authorization Headers (1) Body Pre-request Script Tests

none form-data x-www-form-urlencoded raw binary JSON (application/json)

```
1 {
2   "nombres": "Luis",
3   "apellidos": "Arce",
4   "doc_identidad": 344566
5 }
```

Body Cookies Headers (6) Test Results

Pretty Raw Preview JSON

```
1 {
2   "estado": "OK",
3   "mensaje": "se actualizo con exito",
4   "datos": [
5     {
6       "nombres": "Luis",
7       "apellidos": "Arce",
8       "doc_identidad": 344566
9     }
10  ]
11 }
```

DELETE

http://localhost:3000/api-cognos/alumnos/5

Params

Authorization

Headers

Body

Pre-request Script

Tests

☒ none

☐ form-data

☐ x-www-form-urlencoded

☐ raw

☐ binary

This request does not have a body

Body

Cookies

Headers (6)

Test Results

Pretty

Raw

Preview

JSON

1

{

2

"estado": "OK",

3

"mensaje": "registro eliminado",

4

"datos": []

5

}