

Universidad de San Carlos de Guatemala

Facultad de Ingeniería

Escuela de Ciencias y Sistemas

Software Avanzado

# Práctica 1

Andrea María López Flores

201404134

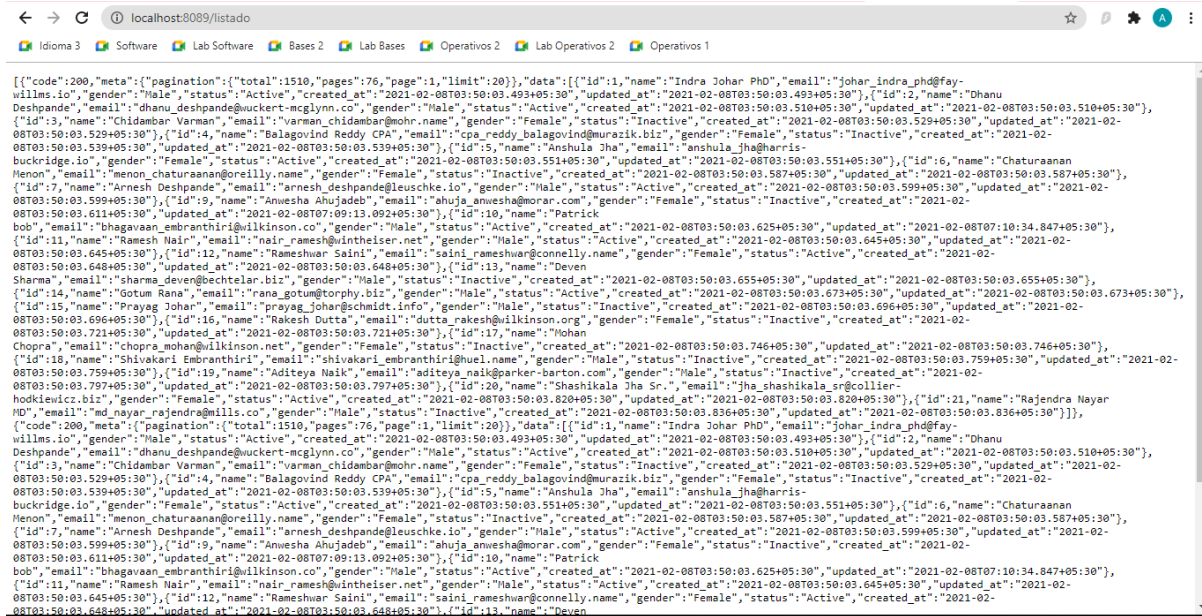
07 de enero de 2021

Todos los métodos se encuentran en `index.js`

## Método GET

```
6
7 // ----- GET -----
8 app.get('/listado', (req, res) => {
9   async.times(2, (i, callback) => {
10     var options = {
11       url: "https://gorest.co.in/public-api/users"
12     }
13     request(options, (error, response, body) => {
14       var result = JSON.parse(body);
15       console.log(result)
16       callback(null, result)
17     });
18   }, (error, results) => {
19     res.json(results);
20   })
21 })
22
23 app.listen('8089', () => {
24   console.log('Start ... ');
25 })
```

Resultado ingresando a `localhost:8089/listado`



```
{
  "code": 200,
  "meta": {
    "pagination": {
      "total": 1510,
      "pages": 76,
      "page": 1,
      "limit": 20
    },
    "data": [
      {
        "id": 1,
        "name": "Indra Johar PhD",
        "email": "johar_indra_phd@fay-willms.io",
        "gender": "Male",
        "status": "Active",
        "created_at": "2021-02-08T03:50:03.493+05:30",
        "updated_at": "2021-02-08T03:50:03.493+05:30",
        "id": 2,
        "name": "Dhanu Deshpande",
        "email": "dhanu_deshpande@wuckert-mcglynn.co",
        "gender": "Male",
        "status": "Active",
        "created_at": "2021-02-08T03:50:03.510+05:30",
        "updated_at": "2021-02-08T03:50:03.510+05:30",
        "id": 3,
        "name": "Chidambar Varman",
        "email": "varman_chidambar@mohr.name",
        "gender": "Female",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.529+05:30",
        "updated_at": "2021-02-08T03:50:03.529+05:30",
        "id": 4,
        "name": "Balagovind Reddy CPA",
        "email": "cpa_reddy_balagovind@murazik.biz",
        "gender": "Female",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.539+05:30",
        "updated_at": "2021-02-08T03:50:03.539+05:30",
        "id": 5,
        "name": "Anshula Jha",
        "email": "anshula_jha@harris-buckridge.io",
        "gender": "Female",
        "status": "Active",
        "created_at": "2021-02-08T03:50:03.551+05:30",
        "updated_at": "2021-02-08T03:50:03.551+05:30",
        "id": 6,
        "name": "Chaturaanan Menon",
        "email": "menon_chaturaanan@oreilly.name",
        "gender": "Female",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.587+05:30",
        "updated_at": "2021-02-08T03:50:03.587+05:30",
        "id": 7,
        "name": "Arnesh Deshpande",
        "email": "arnesh_deshpande@leuschke.io",
        "gender": "Male",
        "status": "Active",
        "created_at": "2021-02-08T03:50:03.599+05:30",
        "updated_at": "2021-02-08T03:50:03.599+05:30",
        "id": 9,
        "name": "Anwesha Ahujadeb",
        "email": "ahuja_anwesha@morar.com",
        "gender": "Female",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.611+05:30",
        "updated_at": "2021-02-08T07:09:13.092+05:30",
        "id": 10,
        "name": "Patrick bob",
        "email": "bhagavaan_embraanthiri@wilkinson.co",
        "gender": "Male",
        "status": "Active",
        "created_at": "2021-02-08T03:50:03.625+05:30",
        "updated_at": "2021-02-08T07:10:34.847+05:30",
        "id": 11,
        "name": "Ramesh Nair",
        "email": "nair_ramesh@wintheiser.net",
        "gender": "Male",
        "status": "Active",
        "created_at": "2021-02-08T03:50:03.645+05:30",
        "updated_at": "2021-02-08T03:50:03.645+05:30",
        "id": 12,
        "name": "Rameshwar Saini",
        "email": "saini_rameshwar@connelly.name",
        "gender": "Female",
        "status": "Active",
        "created_at": "2021-02-08T03:50:03.646+05:30",
        "updated_at": "2021-02-08T03:50:03.646+05:30",
        "id": 13,
        "name": "Deven Sharma",
        "email": "sharma_deven@echtalar.biz",
        "gender": "Male",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.655+05:30",
        "updated_at": "2021-02-08T03:50:03.655+05:30",
        "id": 14,
        "name": "Gotum Rana",
        "email": "rana_gotum@torphy.biz",
        "gender": "Male",
        "status": "Active",
        "created_at": "2021-02-08T03:50:03.673+05:30",
        "updated_at": "2021-02-08T03:50:03.673+05:30",
        "id": 15,
        "name": "Prayag Johar",
        "email": "prayag_johar@schmidt.info",
        "gender": "Male",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.696+05:30",
        "updated_at": "2021-02-08T03:50:03.696+05:30",
        "id": 16,
        "name": "Rakesh Dutta",
        "email": "dutta_rakesh@wilkinson.org",
        "gender": "Female",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.721+05:30",
        "updated_at": "2021-02-08T03:50:03.721+05:30",
        "id": 17,
        "name": "Moham Chopra",
        "email": "chopra_moham@wilkinson.net",
        "gender": "Female",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.746+05:30",
        "updated_at": "2021-02-08T03:50:03.746+05:30",
        "id": 18,
        "name": "Shivakari Embraanthiri",
        "email": "shivakari_embraanthiri@huel.name",
        "gender": "Male",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.759+05:30",
        "updated_at": "2021-02-08T03:50:03.759+05:30",
        "id": 19,
        "name": "Aditeya Naik",
        "email": "aditeya_naik@parker-barton.com",
        "gender": "Male",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.797+05:30",
        "updated_at": "2021-02-08T03:50:03.797+05:30",
        "id": 20,
        "name": "Shashikala Jha Sr.",
        "email": "jha_shashikala_sr@collier-hodkiewicz.biz",
        "gender": "Female",
        "status": "Active",
        "created_at": "2021-02-08T03:50:03.820+05:30",
        "updated_at": "2021-02-08T03:50:03.820+05:30",
        "id": 21,
        "name": "Rajendra Nayar MD",
        "email": "md_nayar_rajendra@millis.co",
        "gender": "Male",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.836+05:30",
        "updated_at": "2021-02-08T03:50:03.836+05:30",
        "id": 2,
        "name": "Dhanu Deshpande",
        "email": "dhanu_deshpande@wuckert-mcglynn.co",
        "gender": "Male",
        "status": "Active",
        "created_at": "2021-02-08T03:50:03.510+05:30",
        "updated_at": "2021-02-08T03:50:03.510+05:30",
        "id": 3,
        "name": "Chidambar Varman",
        "email": "varman_chidambar@mohr.name",
        "gender": "Female",
        "status": "Inactive",
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        "gender": "Female",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.539+05:30",
        "updated_at": "2021-02-08T03:50:03.539+05:30",
        "id": 5,
        "name": "Anshula Jha",
        "email": "anshula_jha@harris-buckridge.io",
        "gender": "Female",
        "status": "Active",
        "created_at": "2021-02-08T03:50:03.551+05:30",
        "updated_at": "2021-02-08T03:50:03.551+05:30",
        "id": 6,
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        "email": "menon_chaturaanan@oreilly.name",
        "gender": "Female",
        "status": "Inactive",
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        "updated_at": "2021-02-08T03:50:03.587+05:30",
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        "name": "Arnesh Deshpande",
        "email": "arnesh_deshpande@leuschke.io",
        "gender": "Male",
        "status": "Active",
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        "updated_at": "2021-02-08T03:50:03.599+05:30",
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        "email": "ahuja_anwesha@morar.com",
        "gender": "Female",
        "status": "Inactive",
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        "gender": "Male",
        "status": "Active",
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        "email": "nair_ramesh@wintheiser.net",
        "gender": "Male",
        "status": "Active",
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        "gender": "Female",
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        "updated_at": "2021-02-08T03:50:03.646+05:30",
        "id": 13,
        "name": "Deven Sharma",
        "email": "sharma_deven@echtalar.biz",
        "gender": "Male",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.655+05:30",
        "updated_at": "2021-02-08T03:50:03.655+05:30",
        "id": 14,
        "name": "Gotum Rana",
        "email": "rana_gotum@torphy.biz",
        "gender": "Male",
        "status": "Active",
        "created_at": "2021-02-08T03:50:03.673+05:30",
        "updated_at": "2021-02-08T03:50:03.673+05:30",
        "id": 15,
        "name": "Prayag Johar",
        "email": "prayag_johar@schmidt.info",
        "gender": "Male",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.696+05:30",
        "updated_at": "2021-02-08T03:50:03.696+05:30",
        "id": 16,
        "name": "Rakesh Dutta",
        "email": "dutta_rakesh@wilkinson.org",
        "gender": "Female",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.721+05:30",
        "updated_at": "2021-02-08T03:50:03.721+05:30",
        "id": 17,
        "name": "Moham Chopra",
        "email": "chopra_moham@wilkinson.net",
        "gender": "Female",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.746+05:30",
        "updated_at": "2021-02-08T03:50:03.746+05:30",
        "id": 18,
        "name": "Shivakari Embraanthiri",
        "email": "shivakari_embraanthiri@huel.name",
        "gender": "Male",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.759+05:30",
        "updated_at": "2021-02-08T03:50:03.759+05:30",
        "id": 19,
        "name": "Aditeya Naik",
        "email": "aditeya_naik@parker-barton.com",
        "gender": "Male",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.797+05:30",
        "updated_at": "2021-02-08T03:50:03.797+05:30",
        "id": 20,
        "name": "Shashikala Jha Sr.",
        "email": "jha_shashikala_sr@collier-hodkiewicz.biz",
        "gender": "Female",
        "status": "Active",
        "created_at": "2021-02-08T03:50:03.820+05:30",
        "updated_at": "2021-02-08T03:50:03.820+05:30",
        "id": 21,
        "name": "Rajendra Nayar MD",
        "email": "md_nayar_rajendra@millis.co",
        "gender": "Male",
        "status": "Inactive",
        "created_at": "2021-02-08T03:50:03.836+05:30",
        "updated_at": "2021-02-08T03:50:03.836+05:30"
      ]
    ]
  }
}
```

## Resultado en consola

```
TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE

  gender: 'Female',
  status: 'Inactive',
  created_at: '2021-02-08T03:50:03.746+05:30',
  updated_at: '2021-02-08T03:50:03.746+05:30' },
  { id: 18,
    name: 'Shivakari Embranthiri',
    email: 'shivakari_embranthiri@huel.name',
    gender: 'Male',
    status: 'Inactive',
    created_at: '2021-02-08T03:50:03.759+05:30',
    updated_at: '2021-02-08T03:50:03.759+05:30' },
  { id: 19,
    name: 'Aditeya Naik',
    email: 'aditeya_naik@parker-barton.com',
    gender: 'Male',
    status: 'Inactive',
    created_at: '2021-02-08T03:50:03.797+05:30',
    updated_at: '2021-02-08T03:50:03.797+05:30' },
  { id: 20,
    name: 'Shashikala Jha Sr.',
    email: 'jha_shashikala_sr@collier-hodkiewicz.biz',
    gender: 'Female',
    status: 'Active',
```

## Método POST

```
28 // ----- POST -----
29 const data = JSON.stringify({
30   name: "Andrea Lopez Flores 201404134",
31   gender: "Female",
32   email: "andrea1@gmail.com",
33   status: "Active"
34 })
35
36 const options = {
37   hostname: 'gorest.co.in',
38   path: '/public-api/users',
39   method: 'POST',
40   headers: {
41     'Content-Type': 'application/json',
42     'Content-Length': data.length,
43     'Accept': 'application/json',
44     'Authorization': 'Bearer df5c9e8d3d3acffba80f810135ffc66dde0dd924ef66f052405f04f5eb099239'
45   }
46 }
47
48 const req = https.request(options, res => {
49   console.log(`statusCode: ${res.statusCode}`)
50
51   res.on('data', d => {
52     process.stdout.write(d)
53   })
54 })
55
```

## Resultado en consola

```
1: node
> node index.js

Start ...
statusCode: 200
{"code":201,"meta":null,"data":{"id":1530,"name":"Andrea Lopez Flores 201404134","email":"andrea1@gmail.com","gender":"Female","status":"Active","created_at":"2021-02-08T07:19:15.755+05:30","updated_at":"2021-02-08T07:19:15.755+05:30"}}]
```

## Resultado en la búsqueda

```
< → C goREST.co.in/public-api/users?name=Andrea%20Lopez%20Flores
Idioma 3 Software Lab Software Bases 2 Lab Bases Operativos 2 Lab Operativos 2 Operativos 1

{"code":200,"meta":{"pagination":{"total":1,"pages":1,"page":1,"limit":20},"data":[{"id":1530,"name":"Andrea Lopez Flores 201404134","email":"andrea1@gmail.com","gender":"Female","status":"Active","created_at":"2021-02-08T07:19:15.755+05:30","updated_at":"2021-02-08T07:19:15.755+05:30"}]}
```

## Método PATCH

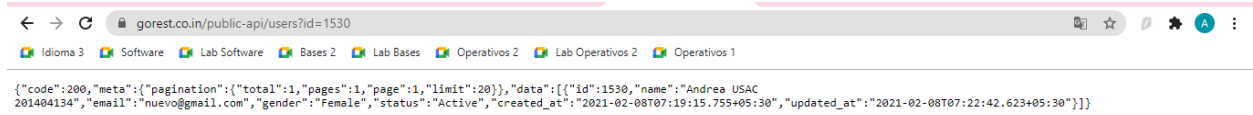
```
62 // ----- PATCH -----
63 const data2 = JSON.stringify({
64   name : "Andrea USAC 201404134",
65   gender: "Female",
66   email: "nuevo@gmail.com",
67   status: "Active"
68 })
69
70 const options2 = {
71   hostname: 'goREST.co.in',
72   path: '/public-api/users/1530',
73   method: 'PATCH',
74   headers: {
75     'Content-Type': 'application/json',
76     'Content-Length': data2.length,
77     'Accept': 'application/json',
78     'Authorization': 'Bearer df5c9e0d3d3acffba80f810135ffc66dde0dd924ef66f052405f04f5eb099239'
79   }
80 }
81
82 const req2 = https.request(options2, res2 => {
83   console.log('statusCode: ${res2.statusCode}')
84
85   res2.on('data', d => {
86     process.stdout.write(d)
87   })
88 })
89
```

## Resultado en consola

```
1: cmd
> node index.js

Start ...
statusCode: 200
{"code":200,"meta":null,"data":{"id":1530,"email":"nuevo@gmail.com","name":"Andrea USAC 201404134","gender":"Female","status":"Active","created_at":"2021-02-08T07:19:15.755+05:30","updated_at":"2021-02-08T07:22:42.623+05:30"}}events.js:174
```

## Resultado en la búsqueda



gorest.co.in/public-api/users?id=1530

Idioma 3 Software Lab Software Bases 2 Lab Bases Operativos 2 Lab Operativos 2 Operativos 1

```
{
  "code": 200,
  "meta": {
    "pagination": {
      "total": 1,
      "pages": 1,
      "page": 1,
      "limit": 20
    },
    "data": [
      {
        "id": 1530,
        "name": "Andrea USAC 201404134",
        "email": "nuevo@gmail.com",
        "gender": "Female",
        "status": "Active",
        "created_at": "2021-02-08T07:19:15.755+05:30",
        "updated_at": "2021-02-08T07:22:42.623+05:30"
      }
    ]
  }
}
```

## Método DELETE

```
105 const options3 = {
106   hostname: 'gorest.co.in',
107   path: '/public-api/users/1506',
108   method: 'DELETE',
109   headers: {
110     'Content-Type': 'application/json',
111     'Content-Length': data3.length,
112     'Accept': 'application/json',
113     'Authorization': 'Bearer df5c9e0d3d3acffba80f810135ffc66dde0dd924ef66f052405f04f5eb099239'
114   }
115 }
116
117 const req3 = https.request(options3, res3 => {
118   console.log(`statusCode: ${res3.statusCode}`)
119
120   res3.on('data', d => {
121     process.stdout.write(d)
122   })
123 })
124
125 req3.on('error', error => {
126   console.error(error)
127 })
128
129 req3.write(data3)
130 req3.end()
```