



BACKEND GO

RELEASE 1

Entrega Release 1 BackEnd Go para consulta y registro de clientes, restaurantes y reservas

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1. BACKEND UTILIZANDO GO

1.1 Objetivo

Crear un API con Go para el backend de la aplicación para consulta y creación de reservas y usuarios.

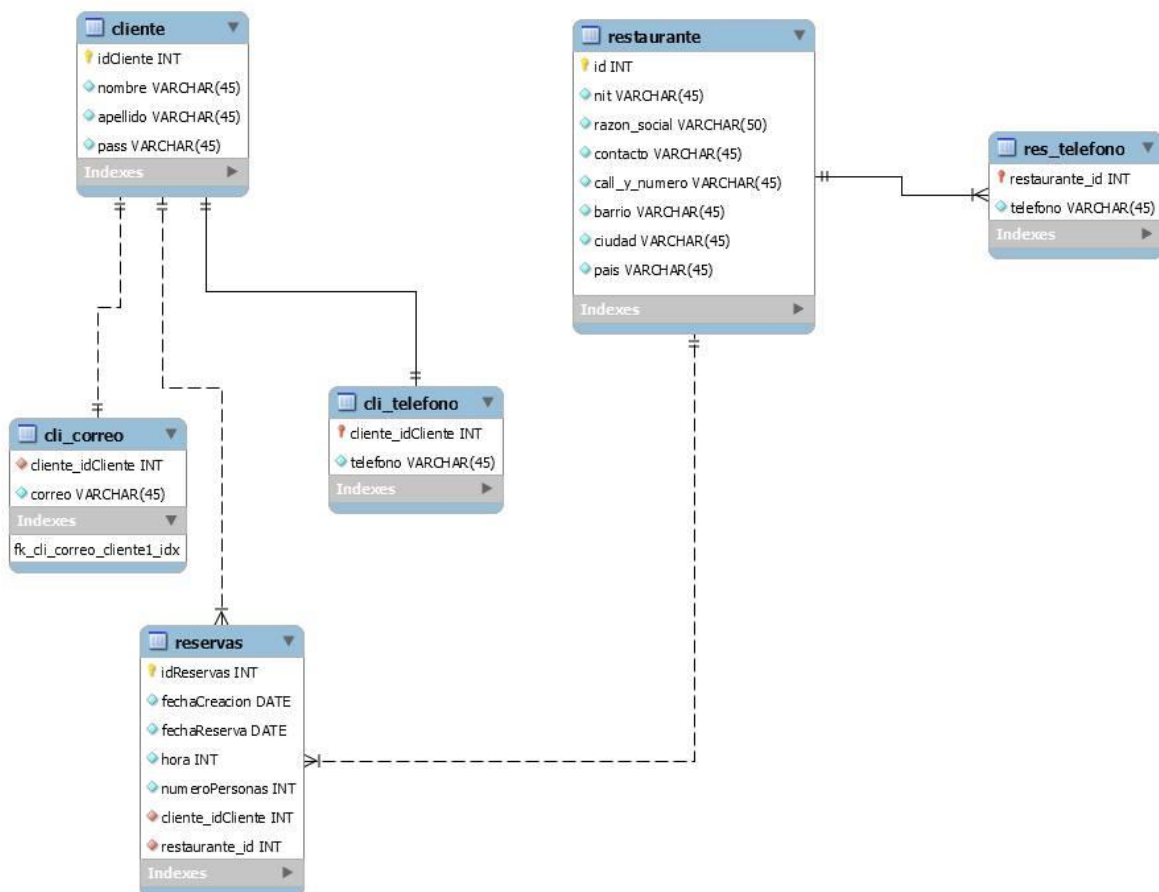
1.2 Características

- Lenguaje GO
- Base de datos MySQL

1.3 Repositorio

https://github.com/andres278/API_restfull_JSON_startup

1.4 Diseño de la base de datos



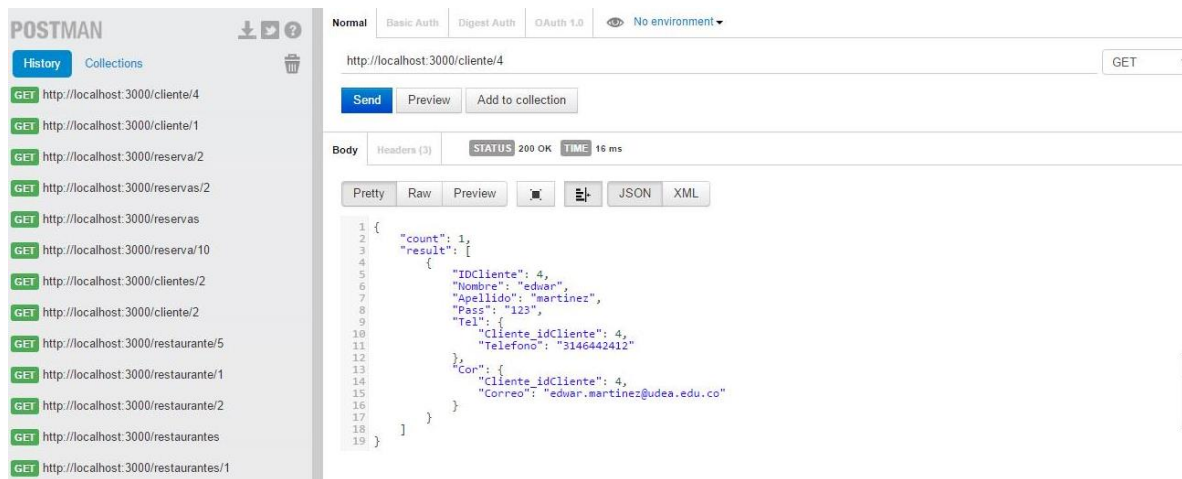
1.5 Funcionamiento

El API realiza una conexión a la base de datos “bdaplicaciones” utilizando las librerías GO para dicha tarea, el fin de la aplicación es traer de la base de datos consulta y registro de clientes, restaurantes, reservas entregando las mismas en un servicio rest full JSON para que sean consumidos por el FrontEND o para almacenar registros en la base de datos que vienen desde el mismo.

1.6 Pruebas

1.6.1 Métodos GET

1.6.1.1 Cliente



Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:3000/cliente/4 GET

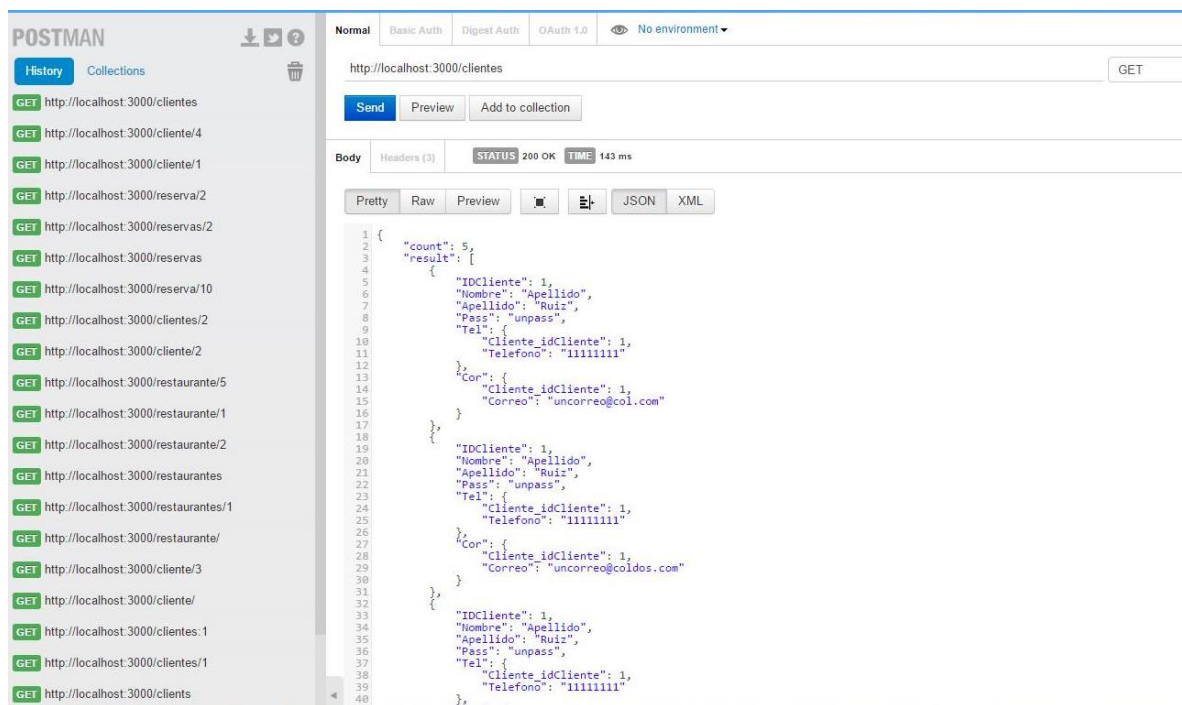
Send Preview Add to collection

Body Headers (3) STATUS 200 OK TIME 16 ms

Pretty Raw Preview JSON XML

```
1 {
2   "count": 1,
3   "result": [
4     {
5       "IDCliente": 4,
6       "Nombre": "edwar",
7       "Apellido": "martinez",
8       "Pass": "123",
9       "Tel": {
10        "Cliente_idCliente": 4,
11        "Telefono": "3146442412"
12      },
13       "Cor": {
14        "Cliente_idCliente": 4,
15        "Correo": "edwar.martinez@udea.edu.co"
16      }
17     }
18   ]
19 }
```

1.6.1.2 Cliente all



Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:3000/clientes GET

Send Preview Add to collection

Body Headers (3) STATUS 200 OK TIME 143 ms

Pretty Raw Preview JSON XML

```
1 {
2   "count": 5,
3   "result": [
4     {
5       "IDCliente": 1,
6       "Nombre": "Apellido",
7       "Apellido": "Ruiz",
8       "Pass": "unpass",
9       "Tel": {
10        "Cliente_idCliente": 1,
11        "Telefono": "11111111"
12      },
13       "Cor": {
14        "Cliente_idCliente": 1,
15        "Correo": "uncorreocol.com"
16      }
17     },
18     {
19       "IDCliente": 1,
20       "Nombre": "Apellido",
21       "Apellido": "Ruiz",
22       "Pass": "unpass",
23       "Tel": {
24        "Cliente_idCliente": 1,
25        "Telefono": "11111111"
26      },
27       "Cor": {
28        "Cliente_idCliente": 1,
29        "Correo": "uncorreocol.com"
30      }
31     },
32     {
33       "IDCliente": 1,
34       "Nombre": "Apellido",
35       "Apellido": "Ruiz",
36       "Pass": "unpass",
37       "Tel": {
38        "Cliente_idCliente": 1,
39        "Telefono": "11111111"
40      }
41     },
42     {
43       "IDCliente": 1,
44       "Nombre": "Apellido",
45       "Apellido": "Ruiz",
46       "Pass": "unpass",
47       "Tel": {
48        "Cliente_idCliente": 1,
49        "Telefono": "11111111"
50      }
51     },
52     {
53       "IDCliente": 1,
54       "Nombre": "Apellido",
55       "Apellido": "Ruiz",
56       "Pass": "unpass",
57       "Tel": {
58        "Cliente_idCliente": 1,
59        "Telefono": "11111111"
60      }
61     }
62   ]
63 }
```

1.6.1.3 Restaurante

POSTMAN

History Collections

GET http://localhost:3000/restaurante/1

GET http://localhost:3000/restaurante/2

GET http://localhost:3000/clientes

GET http://localhost:3000/cliente/4

GET http://localhost:3000/cliente/1

GET http://localhost:3000/reserva/2

GET http://localhost:3000/reservas/2

GET http://localhost:3000/reserva/10

GET http://localhost:3000/clientes/2

GET http://localhost:3000/cliente/2

GET http://localhost:3000/restaurante/5

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:3000/restaurante/1 GET

Send Preview Add to collection

Body Headers (3) STATUS 200 OK TIME 33 ms

Pretty Raw Preview JSON XML

```
1 {
2   "count": 1,
3   "result": [
4     {
5       "ID": 1,
6       "Nit": "111111",
7       "Razon_social": "Restaurante uno",
8       "Contacto": "Juan Carlos",
9       "Call_y_numero": "direc uno",
10      "Barrio": "Barrio uno",
11      "Ciudad": "Medellin",
12      "Pais": "Colombia",
13      "Tel": {
14        "Restaurante_idRestaurante": 1,
15        "Telefono": "5522888"
16      }
17    }
18  ]
19 }
```

1.6.1.4 Restaurante all

POSTMAN

History Collections

GET http://localhost:3000/restaurantes

GET http://localhost:3000/clientes

GET http://localhost:3000/cliente/1

GET http://localhost:3000/cliente/2

POST http://localhost:3000/restaurante

POST http://localhost:3000/cliente

POST http://localhost:3000/cliente

POST http://localhost:3000/clientes

POST http://localhost:3000/clientes

POST http://localhost:3000/clientes

POST http://localhost:3000/reserva

POST http://localhost:3000/reserva

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:3000/restaurantes GET

http://localhost:3000/restaurantes

http://localhost:3000/restaurantes/1

Body Headers (3) STATUS 200 OK TIME 51 ms

Pretty Raw Preview JSON XML

```
1 {
2   "count": 1,
3   "result": [
4     {
5       "ID": 1,
6       "Nit": "800900111",
7       "Razon_social": "Restaurante Milagros",
8       "Contacto": "carlos lopez",
9       "Call_y_numero": "",
10      "Barrio": "",
11      "Ciudad": "",
12      "Pais": "",
13      "Tel": {
14        "Restaurante_idRestaurante": 0,
15        "Telefono": ""
16      }
17    }
18  ]
19 }
```

1.6.1.5 Reserva

GET http://localhost:3000/reservas

GET http://localhost:3000/reserva/2

GET http://localhost:3000/cliente/

GET http://localhost:3000/cliente/4

GET http://localhost:3000/clientes/2

GET http://localhost:3000/restaurante/1

GET http://localhost:3000/restaurante/2

GET http://localhost:3000/clientes

GET http://localhost:3000/cliente/1

GET http://localhost:3000/reservas/2

GET http://localhost:3000/cliente/2

GET http://localhost:3000/restaurante/5

GET http://localhost:3000/restaurantes

GET http://localhost:3000/restaurantes/1

GET http://localhost:3000/restaurante/

GET http://localhost:3000/cliente/3

GET http://localhost:3000/clientes:1

GET http://localhost:3000/clientes/1

GET http://localhost:3000/clients

GET http://localhost:3000/cliente/800

GET http://localhost:3000/cliente

NormalBasic AuthDigest AuthOAuth 1.0No environment

http://localhost:3000/reserva/10GET

SendPreviewAdd to collection

BodyHeaders (3)STATUS 200 OKTIME 16 ms

PrettyRawPreviewJSONXML

```
1 {
2   "count": 1,
3   "result": [
4     {
5       "ID": 10,
6       "FechaCreacion": "2016-11-04",
7       "FechaReserva": "2016-11-05",
8       "Hora": "10",
9       "NumeroPersonas": 3,
10      "Cli": {
11        "IDCliente": 4,
12        "Nombre": "edwar",
13        "Apellido": "martinez",
14        "Pass": "123",
15        "Tel": {
16          "Cliente_idCliente": 0,
17          "Telefono": ""
18        },
19        "Cor": {
20          "Cliente_idCliente": 0,
21          "Correo": ""
22        }
23      },
24      "Rest": {
25        "ID": 5,
26        "Nit": "",
27        "Razon_social": "",
28        "Contacto": "",
29        "Call_y_numero": "",
30        "Barrio": "",
31        "Ciudad": "",
32        "Pais": "",
33        "Tel": {
34          "Restaurante_idRestaurante": 0,
35          "Telefono": ""
36        }
37      }
38    }
39  ]
40 }
```

1.6.1.6 Reserva All

GET http://localhost:3000/reservas

GET http://localhost:3000/reserva/2

GET http://localhost:3000/cliente/

GET http://localhost:3000/cliente/4

GET http://localhost:3000/reserva/10

GET http://localhost:3000/clientes/2

GET http://localhost:3000/restaurante/1

GET http://localhost:3000/restaurante/2

GET http://localhost:3000/clientes

GET http://localhost:3000/cliente/1

GET http://localhost:3000/reservas/2

GET http://localhost:3000/cliente/2

GET http://localhost:3000/restaurante/5

GET http://localhost:3000/restaurantes

GET http://localhost:3000/restaurantes/1

GET http://localhost:3000/restaurante/

GET http://localhost:3000/cliente/3

GET http://localhost:3000/clientes:1

GET http://localhost:3000/clientes/1

GET http://localhost:3000/clients

NormalBasic AuthDigest AuthOAuth 1.0No environment

http://localhost:3000/reservasGET

SendPreviewAdd to collection

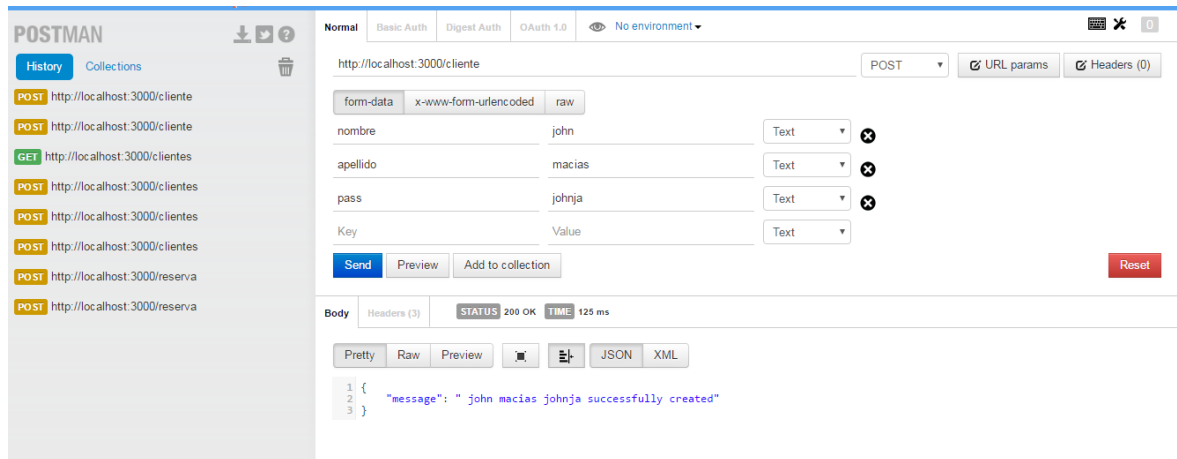
BodyHeaders (3)STATUS 200 OKTIME 48 ms

PrettyRawPreviewJSONXML

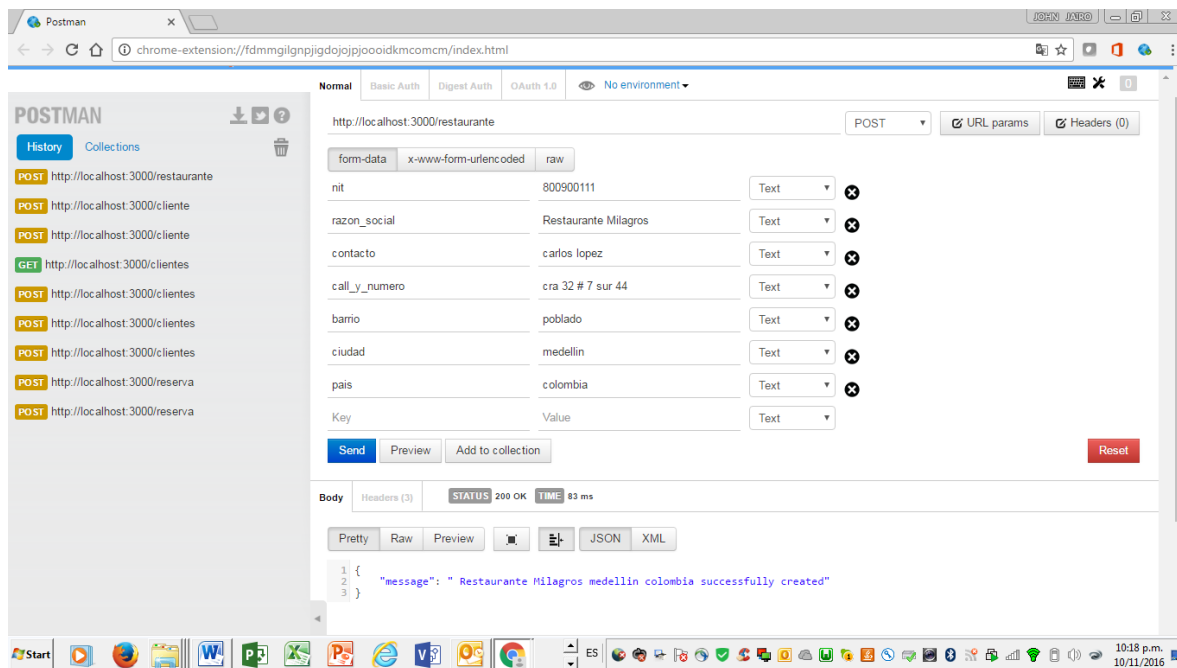
```
1 {
2   "count": 2,
3   "result": [
4     {
5       "ID": 2,
6       "FechaCreacion": "2016-11-09",
7       "FechaReserva": "2016-11-10",
8       "Hora": "12",
9       "NumeroPersonas": 2,
10      "Cli": {
11        "IDCliente": 2,
12        "Nombre": "Felipe",
13        "Apellido": "Tabares",
14        "Pass": "unpass",
15        "Tel": {
16          "Cliente_idCliente": 0,
17          "Telefono": ""
18        },
19        "Cor": {
20          "Cliente_idCliente": 0,
21          "Correo": ""
22        }
23      },
24      "Rest": {
25        "ID": 2,
26        "Nit": "",
27        "Razon_social": "",
28        "Contacto": "",
29        "Call_y_numero": "",
30        "Barrio": "",
31        "Ciudad": "",
32        "Pais": "",
33        "Tel": {
```

1.6.2 POST

1.6.2.1 Cliente



1.6.2.2 Restaurante



1.6.2.3 Reserva

POSTMAN

History

Collections

POST

http://localhost:3000/reserva

POST

http://localhost:3000/reserva

Normal

Basic Auth

Digest Auth

OAuth 1.0

No environment

http://localhost:3000/reserva

POST

URL params

Headers (0)

form-data

x-www-form-urlencoded

raw

fechaCreacion

2016-11-10

Text

✕

fechaReserva

2016-11-11

Text

✕

hora

2000

Text

✕

numeroPersonas

2

Text

✕

cliente_idCliente

1

Text

✕

restaurante_idRestaurante

1

Text

✕

Key

Value

Text

✕

Send

Preview

Add to collection

Reset

Body

Headers (3)

STATUS 200 OK

TIME 138 ms

Pretty

Raw

Preview

JSON

XML

1 {

2 "message": " 2016-11-11 2000 2 successfully created"

3 }