

API Workshop, Vehicles & Parts

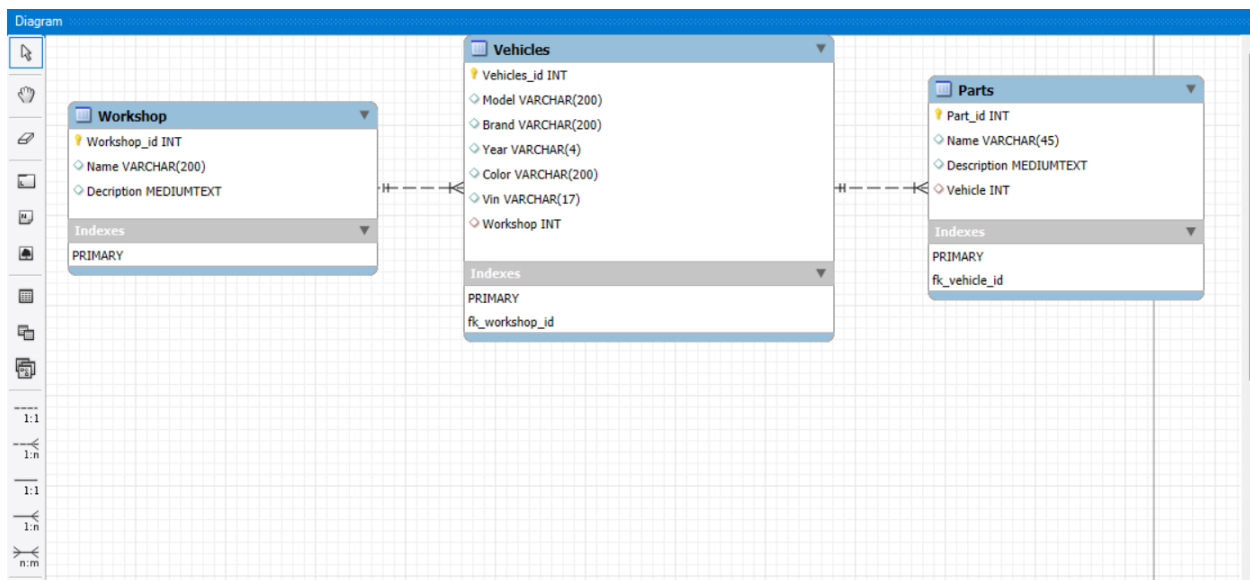
1. Introducción

La API de gestión de *Workshops*, *Vehicles* y *Parts* permite realizar operaciones CRUD sobre estos tres recursos.

2. Relaciones entre entidades

La estructura relacional entre los recursos es la siguiente:

- Un **workshop** puede tener múltiples **vehicles**.
- Un **vehicle** pertenece a un único **workshop**.
- Un **vehicle** puede tener múltiples **parts**.
- Una **part** puede estar asociada a múltiples **vehicles**.



3. Endpoints

Workshops

- GET <http://localhost:8080/API/Workshops>

Obtiene la lista de talleres registrados.

- POST <http://localhost:8080/API/Workshops>

Crea un nuevo taller.

- PUT <http://localhost:8080/API/Workshops/{id}>

Actualiza la información de un taller existente.

- DELETE http://localhost:8080/API/Workshops/{id}

Elimina un taller por ID.

Vehicles

- GET http://localhost:8080/API/Vehicles

Recupera todos los vehículos registrados.

- POST http://localhost:8080/API/Vehicles

Registra un nuevo vehículo y lo asocia a un taller.

- PUT http://localhost:8080/API/Vehicles/{id}

Actualiza los datos de un vehículo.

- DELETE http://localhost:8080/API/Vehicles/{id}

Elimina un vehículo por ID.

Parts

- GET http://localhost:8080/API/Parts

Lista todas las partes disponibles.

- POST http://localhost:8080/API/Parts

Crea una nueva parte.

- PUT http://localhost:8080/API/Parts/{id}

Actualiza los datos de una parte.

- DELETE http://localhost:8080/API/Parts/{id}

Elimina una parte por ID.

http://localhost:8080/API/Parts

Save

POST

http://localhost:8080/API/Parts

Send

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Settings

Cookies

Beautify

none

form-data

x-www-form-urlencoded

raw

binary

JSON

```
1  {
2    "name": "Llanta",
3    "description": "Llanta derecha delantera" /*,*/
4    /* "vehicle": {
5      "id": 1
6    } */
7  }
8
```

Body

Cookies (1)

Headers (5)

Test Results

Status: 200 OK

Time: 171 ms

Size: 229 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

```
1  {
2    "id": 1,
3    "name": "Llanta",
4    "description": "Llanta derecha delantera"
5  }
```

http://localhost:8080/API/Parts

Save

GET

http://localhost:8080/API/Parts

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

Key	Value	Bulk Edit
Key	Value	

Body

Cookies (1)

Headers (5)

Test Results

Status: 200 OK

Time: 7 ms

Size: 231 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

```
1  {
2    {
3      "id": 1,
4      "name": "Llanta",
5      "description": "Llanta derecha delantera"
6    }
7  }
```

HTTP <http://localhost:8080/API/Vehicles> Save </>

POST <http://localhost:8080/API/Vehicles> Send

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary **JSON** Beautify

```
1  {
2    "model": "Pilot",
3    "brand": "Honda",
4    "vehicleYear": "2025",
5    "color": "Blanco Perla",
6    "vin": "4HGBH41JXMN109189",
7    /*"workshop": {
8      "id": 1
9    },*/
10   "parts": [
11     {
12       "name": "Sistema de navegacion",
13       "description": "GPS con pantalla tactil"
14     }
15   ]
16 }
```

Body Cookies (1) Headers (5) Test Results Status: 200 OK Time: 19 ms Size: 364 B Save Response

Pretty Raw Preview Visualize **JSON** Beautify

```
1  {
2    "id": 3,
3    "model": "Pilot",
4    "brand": "Honda",
5    "vehicleYear": "2025",
6    "color": "Blanco Perla",
7    "vin": "4HGBH41JXMN109189",
8    "parts": [
9      {
10       "id": 2,
11       "name": "Sistema de navegacion",
12       "description": "GPS con pantalla tactil"
13     }
14   ]
15 }
```

HTTP <http://localhost:8080/API/Vehicles> Save </>

GET <http://localhost:8080/API/Vehicles> Send

Params Authorization Headers (7) **Body** Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Bulk Edit
-----	-------	-----------

Body Cookies (1) Headers (5) Test Results Status: 200 OK Time: 21 ms Size: 366 B Save Response

Pretty Raw Preview Visualize **JSON** Beautify

```
1  {
2    "id": 3,
3    "model": "Pilot",
4    "brand": "Honda",
5    "vehicleYear": "2025",
6    "color": "Blanco Perla",
7    "vin": "4HGBH41JXMN109189",
8    "parts": [
9      {
10       "id": 2,
11       "name": "Sistema de navegacion",
12       "description": "GPS con pantalla tactil"
13     }
14   ]
15 }
```

http://localhost:8080/API/Workshops

POSThttp://localhost:8080/API/WorkshopsSend

ParamsAuthorizationHeaders (9)BodyPre-request ScriptTestsSettingsCookiesBeautify

noneform-datax-www-form-urlencodedrawbinaryJSON

```
1 {
2   "name": "Garage Express",
3   "description": "Servicio rápido de mantenimiento",
4   "vehicle": [
5     {
6       "model": "CR-V",
7       "brand": "Honda",
8       "vehicleYear": "2024",
9       "color": "Rojo",
10      "vin": "3HGBH41JXMN109188"
11    }
12  ]
13 }
```

BodyCookies (1)Headers (5)Test ResultsStatus: 200 OKTime: 10 msSize: 373 BSave Response

PrettyRawPreviewVisualizeJSON

```
1 {
2   "id": 1,
3   "name": "Garage Express",
4   "description": "Servicio rápido de mantenimiento",
5   "vehicle": [
6     {
7       "id": 4,
8       "model": "CR-V",
9       "brand": "Honda",
```

http://localhost:8080/API/Workshops

GEThttp://localhost:8080/API/WorkshopsSend

ParamsAuthorizationHeaders (7)BodyPre-request ScriptTestsSettingsCookies

Query Params

Key	Value
-----	-------

Bulk Edit

BodyCookies (1)Headers (5)Test ResultsStatus: 200 OKTime: 7 msSize: 373 BSave Response

PrettyRawPreviewVisualizeJSON

```
1 {
2   {
3     "id": 1,
4     "name": "Garage Express",
5     "description": "Servicio rápido de mantenimiento",
6     "vehicle": [
7       {
8         "id": 4,
9         "model": "CR-V",
10        "brand": "Honda",
11        "vehicleYear": "2024",
12        "color": "Rojo",
13        "vin": "3HGBH41JXMN109188",
14        "parts": []
15      }
16    ]
17  }
18 }
```

HTTP http://localhost:8080/API/Parts/1 Save

PUT http://localhost:8080/API/Parts/1 Send

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary **JSON** Beautify

```
1 {
2   "name": "Aceite actua",
3   "description": "Aceite premium"
4 }
```

Body Cookies (1) Headers (5) Test Results Status: 200 OK Time: 18 ms Size: 225 B Save Response

Pretty Raw Preview Visualize **JSON**

```
1 {
2   "id": 1,
3   "name": "Aceite actua",
4   "description": "Aceite premium"
5 }
```

HTTP http://localhost:8080/API/Workshops/1 Save

PUT http://localhost:8080/API/Workshops/1 Send

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary **JSON** Beautify

```
1 {
2   "id": 1,
3   "name": "Taller Actualizado",
4   "description": "Descripción uwu"
5 }
```

Body Cookies (1) Headers (5) Test Results Status: 200 OK Time: 11 ms Size: 359 B Save Response

Pretty Raw Preview Visualize **JSON**

```
1 {
2   "id": 1,
3   "name": "Taller Actualizado",
4   "description": "Descripción uwu",
5   "vehicle": [
6     {
7       "id": 4,
8       "model": "CR-V",
9       "brand": "Honda",
10      "vehicleYear": "2024",
11      "color": "Rojo",
12      "vin": "3HG6BH41JXMM109180",
13      "parts": []
14     }
15   ]
16 }
```

HTTP <http://localhost:8080/API/Vehicles/5> Save </>

PUT <http://localhost:8080/API/Vehicles/5> Send ▼ 🔖

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary **JSON** ▼ Beautify

```
1 [
2   "model": "Jeep",
3   "brand": "Honda",
4   "vehicleYear": "2025",
5   "color": "Azul",
6   "vin": "4HGBH41JXMN109189",
7   "workshop": {
8     "id": 1
9   }
10 ]
```

Body Cookies (1) Headers (5) Test Results 🌐 Status: 200 OK Time: 8 ms Size: 276 B Save Response ▼

Pretty Raw Preview Visualize **JSON** ▼ 🔍

```
1 {
2   "id": 5,
3   "model": "Jeep",
4   "brand": "Honda",
5   "vehicleYear": "2025",
6   "color": "Azul",
7   "vin": "4HGBH41JXMN109189",
8   "parts": []
9 }
```

HTTP <http://localhost:8080/API/Parts/2> Save </>

DELETE <http://localhost:8080/API/Parts/2> Send ▼ 🔖

Params Authorization Headers (7) **Body** Pre-request Script Tests Settings Cookies


Query Params

Key	Value	Bulk Edit
Key	Value	

Body Cookies (1) Headers (5) Test Results 🌐 Status: 200 OK Time: 11 ms Size: 212 B Save Response ▼

Pretty Raw Preview Visualize **Text** ▼ 🔍

```
1 Product with ID 2 has been deleted successfully!
```

 http://localhost:8080/API/Vehicles/2

DELETE

http://localhost:8080/API/Vehicles/2

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	Key	Value	Bulk Edit
	Key	Value	

Body

Cookies (1)

Headers (5)

Test Results

Status: 200 OK Time: 10 ms Size: 212 B Save Response

Pretty


Raw

Preview

Visualize

Text

1 Vehicle with ID 2 has been deleted successfully!

 http://localhost:8080/API/Workshops/2

DELETE

http://localhost:8080/API/Workshops/2

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	Key	Value	Bulk Edit
	Key	Value	

Body

Cookies (1)

Headers (5)

Test Results

Status: 200 OK Time: 6 ms Size: 213 B Save Response

Pretty

Raw

Preview

Visualize

Text

1 Workshop with ID 2 has been deleted successfully!

Database (H2)

localhost:8080/h2-console/login.do?jsessionId=6e5685e44e49b50999640f44e9b00731

Auto commit

Max rows: 1000

Auto complete Off

Auto select On

jdbc:h2:mem:taskdb

PARTS_CLASS

VEHICLES_CLASS

WORKSHOP_CLASS

INFORMATION_SCHEMA

Users

H2 2.3.232 (2024-08-11)

Run Run Selected Auto complete Clear SQL statement:

SELECT * FROM PARTS_CLASS

SELECT * FROM PARTS_CLASS;

ID	VEHICLE_ID	DESCRIPTION	NAME
1	null	Llanta derecha delantera	Llanta

(1 row, 4 ms)

Edit

localhost:8080/h2-console/login.do?jsessionId=6e5685e44e49b50999640f44e9b00731

Auto commit

Max rows: 1000

Auto complete Off

Auto select On

jdbc:h2:mem:taskdb

PARTS_CLASS

VEHICLES_CLASS

WORKSHOP_CLASS

INFORMATION_SCHEMA

Users

H2 2.3.232 (2024-08-11)

Run Run Selected Auto complete Clear SQL statement:

SELECT * FROM VEHICLES_CLASS

SELECT * FROM VEHICLES_CLASS;

ID	WORKSHOP_ID	BRAND	COLOR	MODEL	VEHICLE_YEAR	VIN
1	null	Renegade	Negro	Jeep	2026	4HGBH41JXMN109189
2	1	Honda	Rojo	CR-V	2024	3HGBH41JXMN109188

(2 rows, 0 ms)

Edit

localhost:8080/h2-console/login.do?jsessionId=6e5685e44e49b50999640f44e9b00731

Auto commit

Max rows: 1000

Auto complete Off

Auto select On

jdbc:h2:mem:taskdb

PARTS_CLASS

VEHICLES_CLASS

WORKSHOP_CLASS

INFORMATION_SCHEMA

Users

H2 2.3.232 (2024-08-11)

Run Run Selected Auto complete Clear SQL statement:

SELECT * FROM WORKSHOP_CLASS

SELECT * FROM WORKSHOP_CLASS;

ID	DESCRIPTION	NAME
1	Servicio rápido de mantenimiento	Garage Express

(1 row, 0 ms)

Edit