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# Purpose of this document

This document describes what REST services car-application provides. It contains all needed information so that client can be implemented.

# REST resources (services)

1. Get all cars -> http://localhost:8080/rest/cars/ (use plurars)

2. Insert new car-> http://localhost:8080/rest/cars/

3. Edit car -> http://localhost:8080/rest/cars/{id} (id parameter needed)

4. Delete car -> http://localhost:8080/rest/cars/{id}

# REST requests and responses

## 1 Get all cars

HTTP method: GET

API call: <http://localhost:8080/rest/cars/>

Request body: -

Response example below:

[

    {

        "id": 4,

        "brand": "Volkswagen",

        "model": "Golf",

        "color": "White",

        "registerNumber": "Abc-123",

        "price": 59000.0,

        "year": 2021,

        "owner": {

            "id": 1,

            "firstName": "Macy",

            "lastName": "Minnie",

            "city": "Tampere",

            "ssn": "150578-223L",

            "yob": 1970

        }

    },

    {

        "id": 5,

        "brand": "Ford",

        "model": "Mustang",

        "color": "Red",

        "registerNumber": "ADF-112",

        "price": 59000.0,

        "year": 2021,

        "owner": {

            "id": 2,

            "firstName": "John",

            "lastName": "Johnson",

            "city": "Helsinki",

            "ssn": "111177-134M",

            "yob": 1977

        }

    },

    {

        "id": 6,

        "brand": "Nissan",

        "model": "Leaf",

        "color": "White",

        "registerNumber": "SSJ-300",

        "price": 29000.0,

        "year": 2019,

        "owner": {

            "id": 2,

            "firstName": "John",

            "lastName": "Johnson",

            "city": "Helsinki",

            "ssn": "111177-134M",

            "yob": 1977

        }

    }

]

## 2 Insert new car

HTTP method: POST

API call: <http://localhost:8080/rest/cars/>

Request body:

{

        "brand": "Postman Volkswagen",

        "model": "Polo",

        "color": "Black",

        "registerNumber": "CAB-321",

        "price": 19000.0,

        "year": 2021,

        "owner": {

            "id": 1,

            "firstName": "Macy",

            "lastName": "Minnie",

            "city": "Tampere",

            "ssn": "150578-223L",

            "yob": 1970

        }

    }

Response example below (Status 200 OK):

{

    "id": 8,

    "brand": "Postman Volkswagen",

    "model": "Polo",

    "color": "Black",

    "registerNumber": "CAB-321",

    "price": 19000.0,

    "year": 2021,

    "owner": {

        "id": 1,

        "firstName": "Macy",

        "lastName": "Minnie",

        "city": "Tampere",

        "ssn": "150578-223L",

        "yob": 1970

    }

}

## 3 Edit car

HTTP method: PUT

API call: <http://localhost:8080/rest/cars/4>

Request body:

{

        "brand": "Volkswagen",

        "model": "Golf updated",

        "color": "White",

        "registerNumber": "ABC-123",

        "price": 59000.0,

        "year": 2021,

        "owner": {

            "id": 1,

            "firstName": "Macy",

            "lastName": "Minnie",

            "city": "Tampere",

            "ssn": "150578-223L",

            "yob": 1970

        }

    }

Response example below (Status 200 OK):

{

    "id": 4,

    "brand": "Volkswagen",

    "model": "Golf updated",

    "color": "White",

    "registerNumber": "ABC-123",

    "price": 59000.0,

    "year": 2021,

    "owner": {

        "id": 1,

        "firstName": "Macy",

        "lastName": "Minnie",

        "city": "Tampere",

        "ssn": "150578-223L",

        "yob": 1970

    }

}

## 4 Delete car

HTTP method: DELETE

API call: <http://localhost:8080/rest/cars/4>

Request body: -

Response: Status 200 OK

# HTTP methods

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Http**  **Method** | **Resource EndPoint** | **Input** | **Success Response** | **Error**  **Response** | **Description** |
| GET | /rest/cars | Body: empty | Status: 200  List of students | Status 500 | Retrieves all cars |
| POST | /rest/cars | Body: new car data | Status: 200  New student with id information | Status: 500 | Creates new car |
| PUT | /rest/cars | N/A | N/A | Status: 400 | Method not allowed |
| DELETE | /rest/cars | N/A | N/A | Status: 400 | Method not allowed |
| GET | /car/{id} | Body: empty | method not supported | method not supported | Get information of one car. Method not implemented. |
| POST | /car/{id} | N/A | N/A | Status: 400 | Method not allowed |
| PUT | /car/{id} | Body: car data with updates | Status: 200  Body: Empty | Status:404 or 500 | Updates an existing car |
| DELETE | /car/{id} | Body: empty | Status: 200 | Status:404 or 500 | Deletes an existing car. |