

# ■ Car24 API Documentation

## Overview

This project is a simple **Node.js + Express REST API** secured using **JWT authentication**. It manages used car data similar to Car24, including brand name, manufacturing year, driven kilometers, and price. Only **admin users** are allowed to access car-related endpoints.

## Server Details

**Base URL:** `http://localhost:4000`

**Port:** 4000

## Authentication (JWT)

Users must log in using the `/login` endpoint. A JWT token is returned and must be included in the **Authorization** header for all protected routes.

```
POST /login
Content-Type: application/json

{
  "username": "admin",
  "password": "1234"
}
```

## Car APIs (Admin Only)

All the following APIs require a valid JWT token and admin role.

GET	<code>/cars</code>	-> Fetch all cars
GET	<code>/cars/:id</code>	-> Fetch car by ID
POST	<code>/cars</code>	-> Add a new car
PUT	<code>/cars/:id</code>	-> Update car details
DELETE	<code>/cars/:id</code>	-> Delete a car

## Authorization Header

```
Authorization: Bearer YOUR_JWT_TOKEN
```

## How to Fetch API (JavaScript)

Below is a basic JavaScript example using the **fetch()** API to retrieve all cars from the server.

```
fetch("http://localhost:4000/cars", {
  method: "GET",
  headers: {
    "Authorization": "Bearer YOUR_JWT_TOKEN"
  }
})
.then(response => response.json())
.then(data => {
  console.log(data);
```

```
})
.catch(error => {
  console.error(error);
});
```

## Important Notes

- JWT token expires in 5 minutes
- Only admin users can manage car data
- This project is suitable for learning REST APIs, JWT, and role-based access control