

Car Management API Documentation

Base URL

- Local Development: `http://localhost:5001/api`
- Production: <https://carapp-backend-czb0.onrender.com/api>

Authentication

This API uses JWT for authentication. Include the token in the Authorization header for requests that require authentication.

Authorization: Bearer <your_token>

Endpoints

User Routes

Register a New User

- **URL:** `/api/users/register`
- **Method:** POST
- **Description:** Register a new user with an email and password.
- **Body Parameters:**
 - `name (string)`: User's name.
 - `email (string)`: User's email.
 - `password (string)`: User's password.
- **Response:**
 - 201 Created: Returns the created user.
 - 400 Bad Request: Invalid input data.

Login

- **URL:** `/api/users/login`
- **Method:** POST
- **Description:** Logs in a user and returns a JWT token.
- **Body Parameters:**
 - `email (string)`: User's email.
 - `password (string)`: User's password.

- **Response:**
 - 200 OK: Returns an authentication token.
 - 401 Unauthorized: Invalid credentials.
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Car Routes

Get All Cars for Logged-in User

- **URL:** /api/cars
- **Method:** GET
- **Description:** Retrieve all cars associated with the authenticated user.
- **Headers:** Requires Authorization header with Bearer token.
- **Response:**
 - 200 OK: List of cars owned by the user.
 - 401 Unauthorized: Invalid or missing token.

Create a New Car

- **URL:** /api/cars
- **Method:** POST
- **Description:** Creates a new car with multiple images.
- **Headers:** Requires Authorization header with Bearer token.
- **Body Parameters:**
 - title (string): Title of the car.
 - description (string): Description of the car.
 - tags (string): Comma-separated tags.
 - images (file[]): Array of images to upload (up to 10 files).
- **Response:**
 - 201 Created: Returns the created car object.
 - 400 Bad Request: Missing images or required data.
 - 500 Internal Server Error: Server error.

Get a Car by ID

- **URL:** /api/cars/{id}
- **Method:** GET
- **Description:** Retrieve a car by its ID.

- **Headers:** Requires Authorization header with Bearer token.
- **Path Parameters:**
 - id (string): The car ID.
- **Response:**
 - 200 OK: Car details.
 - 404 Not Found: Car not found.
 - 401 Unauthorized: Invalid or missing token.

Search for Cars by Title

- **URL:** /api/cars/search
- **Method:** GET
- **Description:** Search cars by title for the authenticated user.
- **Headers:** Requires Authorization header with Bearer token.
- **Query Parameters:**
 - keyword (string): Search keyword for the car title.
- **Response:**
 - 200 OK: List of cars matching the search.
 - 400 Bad Request: Missing search keyword.
 - 500 Internal Server Error: Server error.

Update Car Information

- **URL:** /api/cars/{id}
- **Method:** PUT
- **Description:** Updates a car's information, including images.
- **Headers:** Requires Authorization header with Bearer token.
- **Path Parameters:**
 - id (string): The car ID.
- **Body Parameters:**
 - title (string, optional): New title.
 - description (string, optional): New description.
 - tags (string, optional): New comma-separated tags.
 - images (file[], optional): New images (up to 10).
- **Response:**

- 200 OK: Updated car details.
- 404 Not Found: Car not found.
- 500 Internal Server Error: Server error.

Delete a Car

- **URL:** /api/cars/{id}
- **Method:** DELETE
- **Description:** Deletes a car along with its associated images.
- **Headers:** Requires Authorization header with Bearer token.
- **Path Parameters:**
 - id (string): The car ID.
- **Response:**
 - 200 OK: Confirmation of deletion.
 - 404 Not Found: Car not found.
 - 500 Internal Server Error: Server error.

Error Responses

The API may return the following HTTP status codes:

- **200 OK** - The request was successful.
- **201 Created** - The resource was successfully created.
- **400 Bad Request** - The request was invalid or missing parameters.
- **401 Unauthorized** - Authentication failed.
- **404 Not Found** - The requested resource does not exist.
- **500 Internal Server Error** - An error occurred on the server.

Example Requests

Create a New Car with Images

POST /api/cars

Authorization: Bearer <your_token>

Content-Type: multipart/form-data

```
{  
  "title": "My New Car",  
  "description": "A nice car",  
  "tags": "SUV, Family",  
  "images": [image files...]  
}
```

Search Cars by Title

GET /api/cars/search?keyword=SUV

Authorization: Bearer <your_token>

Update Car Information

http

PUT /api/cars/{id}

Authorization: Bearer <your_token>

Content-Type: multipart/form-data

```
{  
  "title": "Updated Car Title",  
  "description": "Updated description",  
  "tags": "Luxury, Sedan",  
  "images": [new image files...]  
}
```

Delete a Car

DELETE /api/cars/{id}

Authorization: Bearer <your_token>
