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1. Node.js - Car details

Car Details - Node.js

In this challenge, you need to create a back-end application to manage the details of cars using **Node.js** and **MongoDB.**

Database -> cars

Collections -> cars

Collections:

There is a single file for collections namely **cars.js** that resides inside **src/mongoose/models**. The schema for the collections is given below,

cars		
sl.no	field_name	types
1	_id	ObjectID
2	name	String
3	type	String
4	price	Number
5	manufacturer	String
6	capacity	Number
7	V	Number

Routers:

There is a single file namely **cars.js** that contain all the endpoints of the app and resides inside **src/routers**. The endpoints and their functionalities are given below.

1) /cars -> POST Method -> This route should create a new document inside the cars collection with the data that comes with the request body.

Sample data sent with the request:

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{
    "name": "New car",
    "price": 2040000,
    "capacity": 5,
    "type": "Sedan",
    "manufacturer": "Hundai"
```

- If the route was executed successfully and the data was created in the database then, you should send a response code of **201**
- If something went wrong and the creation was unsuccessful then, you should send a response code of 400.
- 2) /cars -> GET Method -> This method should fetch the data from the cars collection. This method also has four optional query parameters namely price, manufacturer, capacity and search.
 - If no query parameters are passed with the request, then all the data from the cars collection should be fetched as the response.
 - If the **search** query parameter is passed with the request, then the data that has the value of search query parameter either in name or manufacturer field should be fetched. **Case sensitivity should be ignored**.
 - If the **capacity** query parameter is passed with the request, then the data that has the value of capacity field equal to the value of capacity query parameter should be fetched.
 - If the **manufacturer** query parameter is passed with the request, then the data that has the value of manufacturer field equal to the value of manufacturer query parameter should be fetched.
 - If **price** parameter is sent with the request, then based on the value of the price parameter, the data should be fetched as follows:
 - If the value of price is **asc**, then the data should be ordered in ascending order of the price parameter.
 - If the value of price is **desc**, then the data should be ordered in descending order of the price parameter.
 - Note that **more than one query parameter** can be passed with the request. In such cases all the filters should be applied and the data should be fetched.
 - If the data was fetched successfully, then you should send a response code of **200**.
 - If something went wrong in the execution of the request and the data fetching was unsuccessful, then you should send a response code of **400**.

3) /cars/:id -> PATCH Method -> This route should update the data in the cars collection that has the _id equal to the id that comes with the request URL. The data to be updated will be sent as the request body.

Sample request: /cars/63be57ab7f0eca3e9db6a3b6

```
{
    "price": 1960000
}
```

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The price of the data that has the id equal to 63be57ab7f0eca3e9db6a3b6 should be updated as 1960000.

- If the route was executed successfully and the data was updated in the database then, you should send a response code of **200**.
- If something went wrong and the updation was unsuccessful then, you should send a response code of 400.

4) /cars/:id -> DELETE Method -> This route should delete the data in the cars collection that has the _id equal to the id that comes with the request URL.

Sample request: /cars/63be57ab7f0eca3e9db6a3b6

The data that has the id equal to 63be57ab7f0eca3e9db6a3b6 should be deleted from the database.

- If the route was executed successfully and the data was deleted in the database then, you should send a response code of **200**.
- If something went wrong and the deletion was unsuccessful then, you should send a response code of 400.

MongoDB commands:

- You can open the mongo shell by running *mongo* from the terminal.
- You can view all the data from the database in MongoDB by running *show dbs* from the mongo shell.
- You can select the database by running use cars.
- You can view the names of collections by running *show collections*.
- You can view the data inside a collection by running *db.cars.find()*.
- Enter *ctrl*+*c* to exit.

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