

RESTful Server Architecture Test

You have 7 days to complete this test. Upon completion please provide either automated tests or instructions on how to test the server application within a README.md file.

SERVER SPECIFICATION

Create a Python with Django/Django Rest Framework server program that can receive HTTP requests with a JSON formatted body payload. Based on the requests that this server program receives, this program should be able to store a list of vehicles that are in the garage, as well as some relevant information on each one. The different types of vehicles are as follows: car, truck, and boat.

Following REST Pattern, the following HTTP Methods should correspond to the operations noted below.

AUTHENTICATION

You are required to create an authentication flow for the server application.

All routes must be protected against anonymous usage.

Our recommendation is to use a token-based scheme utilizing the JWT standard, but that is not a requirement. Creating an authentication flow may require you to make user accounts to go along with the resources that are detailed below. You get to decide that though.

CARS RESOURCE

Path	HTTP Method	Operation
/cars	GET	LIST
/cars/:id	GET	READ
/cars	POST	CREATE
/cars/:id	PUT	UPDATE
/cars/:id	DELETE	DELETE

TRUCKS RESOURCE

Path	HTTP Method	Operation
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/trucks	GET	LIST
/trucks/:id	GET	READ
/trucks	POST	CREATE
/trucks/:id	PUT	UPDATE
/trucks/:id	DELETE	DELETE

BOATS RESOURCE

Path	HTTP Method	Operation
/boats	GET	LIST
/boats/:id	GET	READ
/boats	POST	CREATE
/boats/:id	PUT	UPDATE
/boats/:id	DELETE	DELETE

The fields that should be stored within the server for these vehicles are detailed below.

Car	Truck	Boat
Make	Make	Make
Model	Model	Model
Year	Year	Year
Seats	Seats	Length
Color	Bed Length	Width
VIN	Color	HIN
Current Mileage	VIN	Current Hours
Service Interval	Current Mileage	Service Interval
Next Service	Service Interval	Next Service

	Next Service	
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