



## **The Ultimate Toy Monster Truck API by Spin Master (created by Fiona Ho)**

Objective: Design an API that allows users to obtain/retrieve information about all discontinued, existing, physical, and virtual toy monster trucks from Spin Master in company DB. The virtual properties are especially difficult to track, so a well-structured database along with API functions should be implemented.

### **Tool:**

SwaggerHub is the API design and documentation platform built for teams to drive consistency and discipline across their API development workflow.

### **Estimated Team:**

API Designer  
API Documentation  
API Development

### **Planning Resource: Monster Truck**

#### **GET - gives info for an array of trucks**

Query Parameters - body

Responses - 200 payload: ID, Name, Type, Year, Status, Image File Name

404 not found

### **GET - gives info for a single truck**

Query Parameters - ID

Responses - 200 payload: ID, Name, Type, Year, Status, Image File Name

404 not found

### **POST - insert info for a single truck**

Query Parameters - ID, Name, Type, Year, Status, Image File Name

Responses - 200

400 invalid input

404 not found

### **PUT - Update info for a single truck**

Query Parameters - ID, Name, Type, Year, Status, Image File Name

Responses - 200

404 not found

### **DELETE - remove info for a single truck**

Query Parameters - ID

Responses - 200

404 not found

### **Implementation: Spin Master Monster Jam Encyclopedia App (Internal consumption)**

Spin Master can create this application to help employees familiarize themselves with all the Monster Jam Trucks that are created instead of flipping through documentations after documentations. In the design department, errors in truck name referencing and or duplication can be avoided.

#### **Limitation:**

Technical - This Monster Jam API starts with a basic structure and will expand in the future as an open-source API when a stable version has been released.

Legal - At this point, the Monster Jam API is only available for internal use only. All third-party usage is prohibited.

Pricing - Free for all Spin Master employees to use.

*API design only practice, no actual API was created.*

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openapi: 3.0.0

info:

version: 2.0.0

title: Monster Jam API

description: 'An API that allows users to obtain/retrieve information about all discontinued, existing, physical, and virtual toy monster trucks from Spin Master in company DB.'

termsOfService: <https://spinmaster.com/term-of-use>

contact:

name: Fiona

url: spinmaster.com

email: fiona@spinmaster.com

license:

name: Spin Master License

url: http://license.foo.com

servers:

- url: https://dev.spinmaster.com/v1

description: Dev server

- url: https://dev.foo.com/v1

description: Prod Server

paths:

/trucks:

get:

description: Obtain information about all discontinued, existing, physical, and virtual toy monster trucks from Spin Master in company DB

parameters:

- name: bodyLimit

in: query

description: The amount of trucks returned per query

schema:

type: integer

minimum: 10

maximum: 20

example: 15

- name: pageLimit

in: query

description: The pages to return truck info

schema:

type: integer

minimum: 1

maximum: 5

example: 2

responses:

200:

description: Successful pull of truck info

content:

application/json:

schema:

\$ref: '#/components/schemas/Trucks'

application/xml:

schema:

\$ref: '#/components/schemas/Trucks'

404:

description: Trucks not found

post:

description: Insert information for a single toy monster trucks from Spin Master in company DB

requestBody:

required: true

content:

application/json:

schema:

\$ref: '#/components/schemas/Truck'

application/xml:

schema:

\$ref: '#/components/schemas/Truck'

responses:

200:

description: Successfully inserted a new truck

400:

description: Invalid inputs

/trucks/{id}:

get:

description: Obtain information of a single truck from Spin Master in company DB

parameters:

- in: path

name: id

required: true

description: The ID of the toy truck

schema:

type: integer

example: 4

responses:

200:

description: Successfully loaded truck info based on ID

content:

application/json:

schema:

\$ref: '#/components/schemas/Truck'

application/xml:

schema:

\$ref: '#/components/schemas/Truck'

404:

description: Truck not found

put:

description: Update a single truck info with id

parameters:

- in: path

name: id

description: Truck id to update

required: true

schema:  
type: integer  
example: 4

responses:

200:

description: Successfully update truck and return update truck info

content:

application/json:

schema:

\$ref: '#/components/schemas/Truck'

application/xml:

schema:

\$ref: '#/components/schemas/Truck'

400:

description: Invalid ID supplied

404:

description: Truck not found

delete:

description: Delete a single truck by id

parameters:

- in: path

name: id

description: Truck id to delete

required: true

schema:

type: integer

example: 4

responses:

200:

description: Successfully delete truck and return delete truck info

content:

application/json:

schema:

\$ref: '#/components/schemas/Truck'

application/xml:

schema:

\$ref: '#/components/schemas/Truck'

400:

description: Invalid ID supplied

404:

description: Truck not found

components:

schemas:

Trucks:

description: Array of truck info

type: array

items:

\$ref: '#/components/schemas/Truck'

Truck:

description: Model containing truck info

properties:

id:

type: integer

example: 4

truck name:

type: string

example: Grave Digger

truck type:

type: string

example: virtual

year made:

type: number

example: 1998

discontinued:

type: boolean

default: false

image file name:

type: string

example: gd\_1998.png