Project Assignment – Supers REST API

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# Description

The public REST API service used for this project is the SuperHero Search API on Rapid API that gives information on fictional superhero and villain characters <https://rapidapi.com/jakash1997/api/superhero-search/>

In this project, the characters are referred to by the collective name Supers.

# Schema

The designed REST service maintains a list of Supers (i.e., superheroes and super villains) with the following schema (subset of the information returned by the SuperHero Search API):

|  |  |
| --- | --- |
| **Name** | **Type** |
| Id | Integer |
| Name | String |
| Alignment | String |
| Full Name | String |
| Gender | String |
| Race | String |
| Publisher | String |
| Intelligence | Integer |
| Strength | Integer |
| Speed | Integer |
| Durability | Integer |
| Power | Integer |
| Combat | Integer |

# JSON Format

The format of the JSON to be submitted (for e.g., for a PUT or POST request) is:

{

"name": "Spider-Man",

"alignment": "Good",

"fullName": "Peter Parker",

"gender": "Male",

"race": "Human",

"publisher": "Marvel Comics",

"stats": {

"intelligence": 90,

"strength": 55,

"speed": 67,

"durability": 75,

"power": 74,

"combat": 85

}

}

# API Endpoints

This REST API incorporates the following HTTP methods for the following exposed endpoints:

|  |  |  |
| --- | --- | --- |
| **Method** | **Endpoint** | **Description** |
| GET | /api/supers | Retrieve the entire collection of supers |
| GET | /api/supers/{id} | Retrieve the super with the specified id |
| POST | /api/supers | Add a new super to the list of supers |
| PUT | /api/supers/{id} | Make a modification to a super with the specified id |
| DELETE | /api/supers/{id} | Delete a super with the specified id |
| GET | /api/supers?name=XXX | Retrieve a specific super by their name |
| GET | /api/supers?alignment=XXX | Filter the supers returned based on their alignment (good/bad) |
| GET | /api/supers/?gender=XXX | Filter the supers returned based on their gender (male/female) |
| GET | /api/supers?race=XXX | Filter the supers returned based on their race |
| GET | /api/supers?publisher=XXX | Filter the supers returned based on the publisher of their source material |
| GET | /api/supers?alignment=XX&gender=XXX | Filter the supers returned based on their alignment and gender |
| GET | /api/supers?limit=X&page=Y | Pagination functionality to retrieve page number Y containing a total of X supers |