PHP Developer Skills Assessment v1.0

September 2021

Assessment Brief

You are R3-D3 and were just appointed the General of the Imperial Fleet. Your first action as the new General is to digitise the Imperial Fleet inventory.

Each spacecraft within the Imperial Fleet has the following characteristics:

• Name
• Class
• Armament
• Crew
• Image
• Value
• Status

You need to create a Galactic database (using MySQL) that stores all the spacecraft details.

Following that, you need to create a Galactic application programming interface (REST API) in DroidSpeak (Laravel/Lumen) that will handle the following:

List all the spaceships allowing filtering by name, class, status

Valid response example:

```
{
  "data": [
    {
      "id": 1,
      "name": "Devastator",
      "status": "Operational"
    },
    {
      "id": 2,
      "name": "Red Five",
      "status": "Damaged"
    },
....
  }
```

Show details of a single spaceship
Valid response example:
```
{
    "id": 1,
    "name": "Devastator",
    "class": "Star Destroyer",
    "crew": 35000,
    "image": "https:\\url.to.image",
    "value": 1999.99,
    "status": "operational",
    "armament": [
      {
        "title": "Turbo Laser",
        "qty": "60"
      },
      {
        "title": "Ion Cannons",
        "qty": "60",
      },
      {
        "title": "Tractor Beam",
        "qty": "10",
      },
    ]
}
```

Create a new spaceship
Valid response example:
```
{
    "success": true
}
```

Edit/update an existing spaceship
Valid response example:
```
{
    "success": true
}
```

Delete an existing spaceship
Valid response example:
```
{
    "success": true
}
```

Assessment requirements

- Design and create a MySQL database with tables to fit all the fields and data types based on the examples above.

- Ensure your code is tidy and well documented

- All endpoints must return a JSON response

- Add validation to all endpoints where applicable

- Have your completed code ready to run locally for a show and tell review with a Senior Developer and a Technical Director

- **Bonus points are available**

    - if the create, update and delete interface can only be performed by an authorised
      member of the imperial fleet (authenticated users)

    - if unit tests are included in the delivered code

    - if you can prove you can make the Kessel Run in less than 11 parsecs

You have 3 hours to complete this assessment

May the force be with you!