

# COMP 4537

## Assignment 1

### Documentation

### &

### Self - Graded

### Rubric

Ferrel Anthoni  
A01202412 - Set4M

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## Domain Names and Other Links:

GitHub Repo	<a href="https://github.com/Fanthoni/comp4537-asn1-setM">https://github.com/Fanthoni/comp4537-asn1-setM</a>
Heroku API URL	<a href="https://guarded-citadel-28444.herokuapp.com/">https://guarded-citadel-28444.herokuapp.com/</a>
MongoDB connect URL	<code>mongodb+srv://testUser:COMP4537_password@cluster0.vtxvo7p.mongodb.net/?retryWrites=true&amp;w=majority</code>
YouTube Video	<a href="https://www.youtube.com/watch?v=MAhRAZpOgyU">https://www.youtube.com/watch?v=MAhRAZpOgyU</a>

## Server Routes

Request Type	Endpoint	Description
GET	<code>api/v1/pokemons/</code>	Get pokemons in batch 2 request <b>query</b> is required:  1) count - number of pokemon data to be queried 2) after - skips n amount of pokemons that do not need to be queried
GET	<code>api/v1/pokemon/:id</code>	Get a pokemon data by their IDs. Id is a required request <b>params</b> .  Will return 400 status code if no ID is provided or if there is no such pokemon with the same ID.
GET	<code>api/v1/pokemonimage/:id</code>	Get a pokemon image URL.  Id is a required request <b>params</b> .  Will return 400 status code if no ID is provided or if there is no such pokemon with the same ID.
POST	<code>api/v1/pokemon/</code>	Creates and inserts a new pokemon into the database  <b>Request body</b> must not be null otherwise 400 status code will be returned
DELETE	<code>api/v1/pokemon/:id</code>	Deletes a pokemon by their id - fetched from the <b>request params</b>  Will return 400 status code if no ID is provided or if there is no such pokemon with the same ID.
PUT	<code>api/v1/pokemon/:id</code>	Updates the <b>entire document</b> for existing pokemon with the id fetched from <b>request params</b>  Will return 400 status code if no ID is provided or if there is no such pokemon with the same ID.
PATCH	<code>api/v1/pokemon/:id</code>	Updates the <b>partial attribute</b> for existing pokemon with the id

		fetched from <b>request params</b>  Will return 400 status code if no ID is provided or if there is no such pokemon with the same ID.
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# Self-Graded Rubric

Checked checkbox means that I have the feature implemented

- ☒ GETting all the pokémons - missing count or after.
- ☒ GETting all the pokémons - improper values for count or after.
- ☒ GETting a pokémon.
- ☒ GETting a pokémon - pokémon not found.
- ☒ GETting a pokémon - improper key used to get a pokémon.
  
- ☒ POSTing a pokémon.
- ☒ POSTing a pokémon - improper data
- ☒ POSTing a pokémon - duplicate pokémon
  
- ☒ -DELetting a pokémon.
- ☒ DELetting a pokémon - pokémon not found
  
- ☒ PUTting a pokémon.
- ☐ POSTing a pokémon - upsert -> did not create in a new pokemon document if ID does not exists (you can see from the video)
  
- ☒ PATCHing a pokémon.
- ☒ PATCHing a pokémon - pokémon not found

# Sample Request

In the [Github link repo](#), there is a file named **thunder-collection\_A1.json** where it can be imported into Thunder Client extension of the Visual Studio Code to obtain the Routes Test for this assignment

Below will detail out more about the Test Collection

Test Name	Sample Request Body	Sample Response
getPokemons	<p>There is no request body sent alongside this test.</p> <p>Query params example:  {{URL}}/pokemons?count=2&amp;after=10</p>	<a href="#">GetPokemons</a>

getPokemonById	<p>There is no request body sent alongside this test.</p> <p>Query params example:  {{URL}}/pokemon/6338cc66b3eecf3cb2a36110</p>	<pre>{   "status": "Success",   "data": [     {       "name": {         "english": "Metapod",         "japanese": "トランセル",         "chinese": "铁甲蛹",         "french": "Chrysacier"       },       "_id": "6338c7f297a548e953a54dbd",       "id": "11",       "type": [         "Bug"       ],       "base": {         "HP": 50,         "Attack": 20,         "Defense": 55,         "Sp. Attack": 25,         "Sp. Defense": 25,         "Speed": 30       }     }   ] }</pre>
getPokemonImage	<p>There is no request body sent alongside this test.</p> <p>Query params example:  {{URL}}/pokemonimage/6338c7f297a548e953a54dbd</p>	<pre>{   "status": "Success",   "imageLink":   "https://raw.githubusercontent.com/fanzei/pokemon.json/master/images/011.png" }</pre>
insertPokemon	<pre>{   "name": {     "english": "Test",     "japanese": "Test",     "chinese": "Test",     "french": "Test"   },   "type": [     "Bug"   ],   "base": {     "HP": 100,     "Attack": 100,     "Defense": 100,     "Sp. Attack": 100,     "Sp. Defense": 100,     "Speed": 100   } }</pre>	<pre>{   "status": "Success!",   "data": {     "name": {       "english": "Test",       "japanese": "Test",       "chinese": "Test",       "french": "Test"     },     "type": [       "Bug"     ],     "base": {       "HP": 100,       "Attack": 100,       "Defense": 100,       "Sp. Attack": 100,       "Sp. Defense": 100,       "Speed": 100     },     "_id": "6338cc66b3eecf3cb2a36110"   } }</pre>

deletePokemonById	<p>There is no request body sent alongside this test.</p> <p>Query params example: {{URL}}/pokemon/6338cc66b3eecf3cb2a36110</p>	<pre>{   "status": "Success",   "msg": "Pokemon with id 6338cc66b3eecf3cb2a36110 has been successfully deleted" }</pre>
patchPokemon	<pre>{   "type": [     "Fire",     "Dust"   ], }</pre> <p>Query params example: {{URL}}/pokemon/6338c7f297a548e953a54dbd</p>	<pre>{   "status": "Success",   "data": {     "newPokemonValues": {       "type": [         "Fire",         "Dust"       ]     }   } }</pre>
updatePokemon	<pre>{   "name": {     "english": "Tentacruel",     "japanese": "ドククラゲ",     "chinese": "毒刺水母",     "french": "Tentacruel"   } }</pre> <p>Query params example: {{URL}}/pokemon/6338c0b1a6b41064da6c99f9</p>	<pre>{   "status": "Success",   "data": {     "name": {       "english": "Tentacruel",       "japanese": "ドククラゲ",       "chinese": "毒刺水母",       "french": "Tentacruel"     }   } }</pre>

## Schema Rules

### PokemonSchema

Attribute	Rule
id	Type: String Unique: true
name	<p>Object with the following sub-attributes:</p> <ul style="list-style-type: none"> <li>- English</li> <li>- Japanese</li> <li>- Chinese</li> <li>- French</li> </ul> <p><b>Note:</b> English sub-attribute requires maximum of 20 character</p>
type	An array of enum value from <a href="#">this</a> json file ( <i>English attribute only</i> )

base	An Object
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# Sample Response Links

## GetPokemons

```
{
  "data": [
    {
      "name": {
        "english": "Metapod",
        "japanese": "トランセル",
        "chinese": "铁甲蛹",
        "french": "Chrysacier"
      },
      "_id": "6338c7f297a548e953a54dbd",
      "id": "11",
      "type": [
        "Bug"
      ],
      "base": {
        "HP": 50,
        "Attack": 20,
        "Defense": 55,
        "Sp. Attack": 25,
        "Sp. Defense": 25,
        "Speed": 30
      }
    },
    {
      "name": {
        "english": "Butterfree",
        "japanese": "バタフリー",
        "chinese": "巴大蝶",
        "french": "Papilusion"
      },
      "_id": "6338c7f297a548e953a54dbe",
      "id": "12",
      "type": [
        "Bug",
        "Flying"
      ],
      "base": {
        "HP": 60,
        "Attack": 45,
        "Defense": 50,
        "Sp. Attack": 90,
        "Sp. Defense": 80,
        "Speed": 70
      }
    }
  ],
  "status": "Success"
}
```

