

I made a creature CRUD using Springboot, it's similar to a customer or students CRUD, except it's more abstract and just general living beings. This assignment was built on top of the Springboot base/template.

Create

`http://localhost:8081/api/v1/creatures/create/5/Roddy Piper`
creates a creature with ID of 5 and name "Roddy Piper" adding a creature with an ID that already exists returns a temporary 404 creature.

Update

To update (update the name, by id, in this case) change mode to POST and go `http://localhost:8081/api/v1/creatures/update/1/rodney,`

Read

`http://localhost:8081/api/v1/creatures/find/1`
Displays data for creature of id "1". Trying to find a non-existing creature returns a temporary 404 creature. If input is invalid, the 404 creature is temporary and doesn't actually go anywhere.

In postman, set the mode to GET and enter `http://localhost:8081/api/v1/creatures/all` to retrieve a list of current creatures.

Delete

`http://localhost:8081/api/v1/creatures/delete/1`
deletes a creature that has an id of "1" from the list, deleting a non-existent creature returns a failure message string.

The penultimate part of the address is the id of an existing creature, the last part is the name you want to update the creature to have. updating a non-existing creature returns a temporary 404 creature.

The assignment utilizes a custom controller (WebController) and CreatureService and CreatureRepository, as well as a Creature model

Problems Encountered and How They Were Fixed:

For some reason, the service was not binding to the Controller automatically, so I had to specify a constructor using `@Autowired` with the service as a parameter, in order to force SpringBoot to use that constructor, and thus force it to create a CreatureService and bind it to the constructing WebController.

```
no usages

@Autowired /*Ensure the service loads*/
public WebController(CreatureService creatureService) {
    this.creatureService = creatureService;
}/*So Spring because it sees the @Autowired, it will know to use this constructor
when creating an instance of the WebController, and thus be forced to create a CreatureService,
because it's a constructor with that as a required parameter.*/
```

Screenshots:

GET http://localhost:8081/api/v1/creatures/find/1 Send

Params Authorization Headers (8) Body • Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (5) Test Results 200 OK 12 ms 287 B Save as example

Pretty Raw Preview Visualize

```
{\"creatureID\":\"1\",\"creatureName\":\"Ramiel\",\"creatureSpecies\":null,\"bFemale\":false,\"height\":0.0,\"weight\":0.0,\"bfemale\":false}
```

GET http://localhost:8081/api/v1/creatures/find/88 Send

Params Authorization Headers (8) Body • Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (5) Test Results 200 OK 6 ms 288 B Save as example

Pretty Raw Preview Visualize

```
{\"creatureID\":\"404\",\"creatureName\":\"noone\",\"creatureSpecies\":null,\"bFemale\":false,\"height\":0.0,\"weight\":0.0,\"bfemale\":false}
```

GET http://localhost:8081/api/v1/creatures/all Send

Params Authorization Headers (8) Body ● Pre-request Script Tests Settings Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		

Body Cookies Headers (5) Test Results 200 OK 146 ms 675 B Save as example

Pretty Raw Preview Visualize

```
[{"creatureID":"1","creatureName":"Ramiel","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}, {"creatureID":"2","creatureName":"Sarqiel","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}, {"creatureID":"3","creatureName":"Satariel","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}, {"creatureID":"4","creatureName":"Mysterious Entity","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}]
```

POST http://localhost:8081/api/v1/creatures/delete/1

Params Authorization Headers (8) Body ● Pre-request Script Tests Settings

Query Params

	Key	Value
	Key	Value

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize

```
Ramiel deleted succesfully!
```

After deleting Ramiel

GET http://localhost:8081/api/v1/creatures/all

Params Authorization Headers (8) Body ● Pre-request Script Tests Settings

Query Params

	Key	Value	Description
	Key	Value	Description

Body Cookies Headers (5) Test Results 200 OK

Pretty Raw Preview Visualize

```
[{"creatureID":"2","creatureName":"Sarqiel","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}, {"creatureID":"3","creatureName":"Satariel","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}, {"creatureID":"4","creatureName":"Mysterious Entity","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}]
```

Changing names (update)

GET http://localhost:8081/api/v1/creatures/all Send

Params Authorization Headers (8) Body ● Pre-request Script Tests Settings Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		

Body Cookies Headers (5) Test Results 200 OK 4 ms 538 B Save as example

Pretty Raw Preview Visualize

```
[{"creatureID":"2","creatureName":"rodney","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}, {"creatureID":"3","creatureName":"rotney","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}, {"creatureID":"4","creatureName":"brodney","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}]
```

Adding new creatures

GET

http://localhost:8081/api/v1/creatures/all

S

Params

Authorization

Headers (8)

Body ●

Pre-request Script

Tests

Settings

Query Params

	Key	Value	Description	...
	Key	Value	Description	

Body

Cookies

Headers (5)

Test Results

🌐

Status: 200 OK

Time: 5 ms

Size: 795 B

📄

Save as e

Pretty

Raw

Preview

Visualize

[{"creatureID":"2","creatureName":"rodney","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}, {"creatureID":"3","creatureName":"rotney","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}, {"creatureID":"4","creatureName":"brodney","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}, {"creatureID":"5","creatureName":"Roddy Piper","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}, {"creatureID":"6","creatureName":"Zhong Xina","creatureSpecies":null,"bFemale":false,"height":0.0,"weight":0.0,"bfemale":false}]