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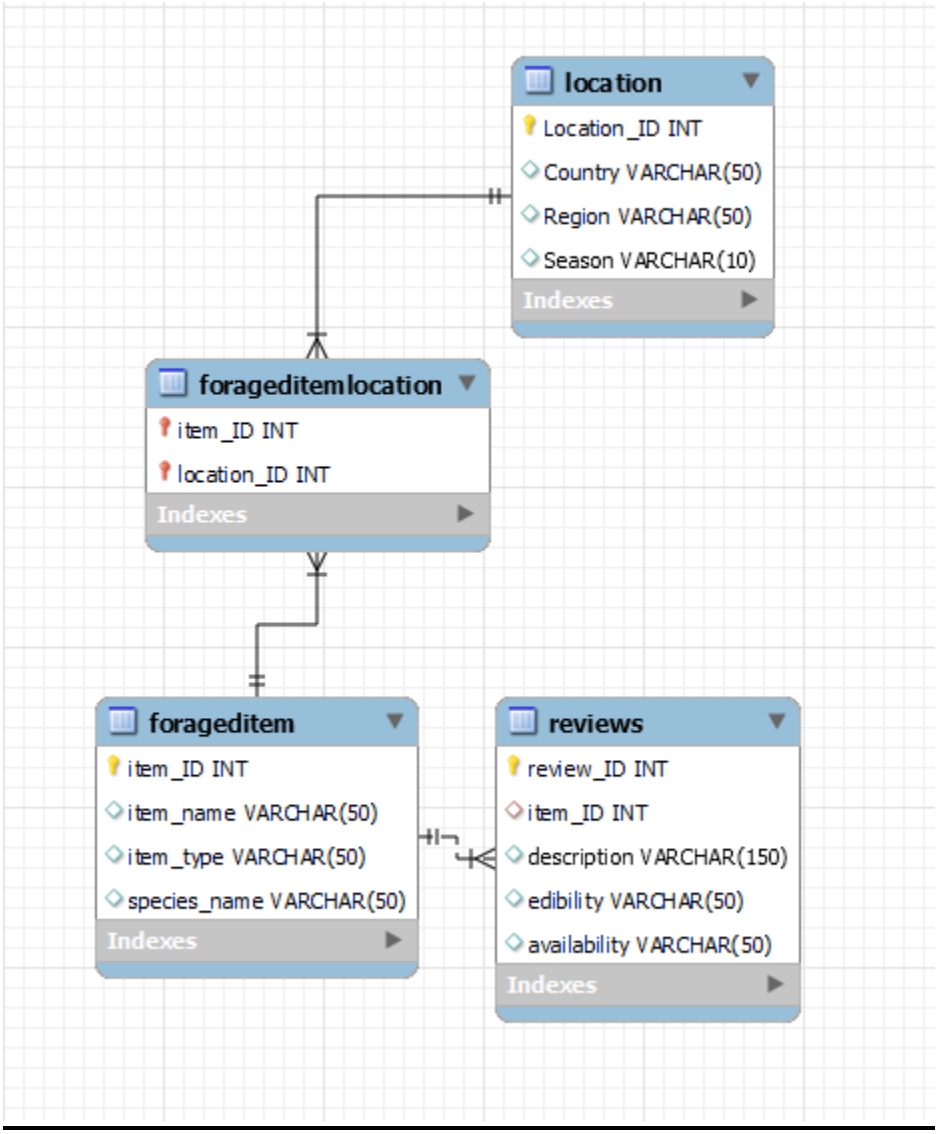
sql scripts and ERD (will also be located on my github):

ERD:



Foraging DB script:

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```sql
DROP TABLE IF EXISTS foragedItemLocation;
DROP TABLE IF EXISTS location;
DROP TABLE IF EXISTS reviews;
DROP TABLE IF EXISTS foragedItem;


CREATE TABLE foragedItem(
item_ID int NOT NULL AUTO_INCREMENT,
item_name VARCHAR(50),
item_type VARCHAR(50),
species_name VARCHAR(50),
PRIMARY KEY(item_id)
);

CREATE TABLE reviews(
review_ID INT NOT NULL AUTO_INCREMENT,
item_ID INT,
description VARCHAR(150),
edibility VARCHAR(50),
availability VARCHAR(50),
PRIMARY KEY(review_ID),
FOREIGN KEY(item_ID) REFERENCES foragedItem(item_ID)
);

CREATE TABLE location(
Location_ID INT NOT NULL AUTO_INCREMENT,
Country varchar(50),
Region varchar(50),
Season VARCHAR(10),
PRIMARY KEY(location_ID)
);

CREATE TABLE foragedItemLocation(
item_ID INT NOT NULL,
location_ID INT NOT NULL,
PRIMARY KEY (item_ID, location_ID),
FOREIGN KEY(item_ID) REFERENCES foragedItem(item_ID),
FOREIGN KEY(location_ID) REFERENCES location(location_ID)
```

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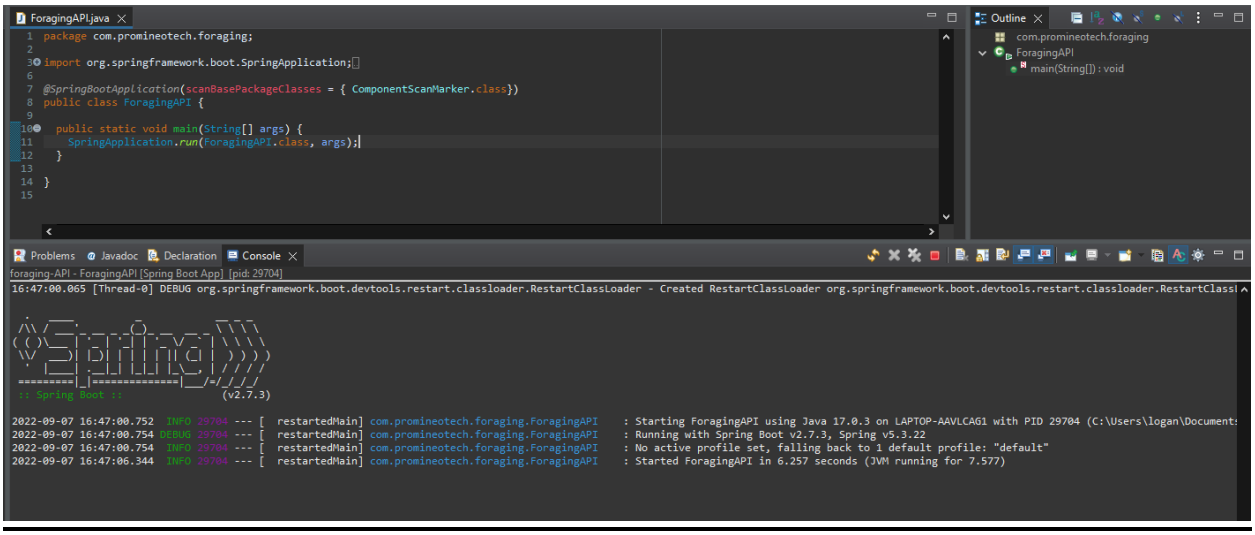
Foraging data script:

```sql
INSERT INTO forageditem (item_name, item_type, species_name)  VALUES('persimmon', 'fruit', 'Diospyros Virginiana');
INSERT INTO forageditem (item_name, item_type, species_name)  VALUES('morel', 'mushroom', 'Morchella Esculenta');
INSERT INTO forageditem (item_name, item_type, species_name)  VALUES('Oyster', 'mushroom', 'Pleurotus Ostereatus');
INSERT INTO forageditem (item_name, item_type, species_name)  VALUES('Nettles', 'herb', 'Dioica');
INSERT INTO forageditem (item_name, item_type, species_name)  VALUES('Deadly Nightshade', 'berry', 'Atropa belladonna');

INSERT INTO location (Country, Region, Season) VALUES('United States', 'Eastern and southern US', 'fall');
INSERT INTO location (Country, Region, Season) VALUES('United States', 'forests and wooded areas', 'spring');
INSERT INTO location (Country, Region, Season) VALUES('United States', 'forests and wooded areas', 'fall');
INSERT INTO location (Country, Region, Season) VALUES('United States', 'wide spread', 'spring');
INSERT INTO location (Country, Region, Season) VALUES('United States', 'Northeast and the Pacific Northwest', 'summer');

INSERT INTO reviews (item_ID, description, edibility, availability) VALUES(1, 'small round fruit that Is orange or red with crisp skin and soft sweet flesh', 'yes', 'plentiful does not affect tree');
INSERT INTO reviews (item_ID, description, edibility, availability) VALUES(2, 'identifiers include the narrow wrinkled pitted caps and hollow stems', 'yes', 'smaller patches that are hard to find' );
INSERT INTO reviews (item_ID, description, edibility, availability) VALUES(3, 'broad thin oyster or fan shaped caps that are white gray or tan found on dead trees', 'yes', 'one of the easier mushrooms to find');
INSERT INTO reviews (item_ID, description, edibility, availability) VALUES(4, 'upright plant with one central shoot and numerous side branches with white flowers and jagged edged leaves', 'edible once cooked', 'fast growing and plent
INSERT INTO reviews (item_ID, description, edibility, availability) VALUES(5, 'not native to the states more prevalent in Europe has oval shaped leaves with a shiny black berry when ripe', 'this variety is poisonous', 'plentiful in s
```

Pictures of Foraging-API running in springboot:



Pictures of foraging running in swagger:

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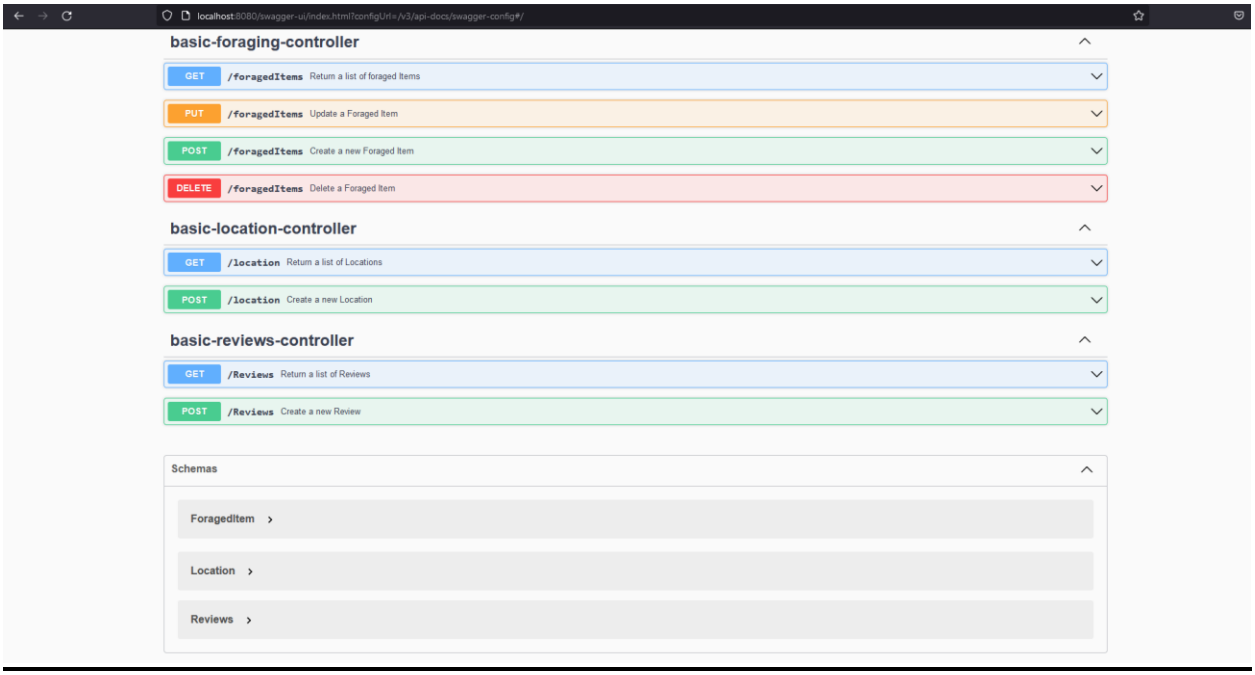
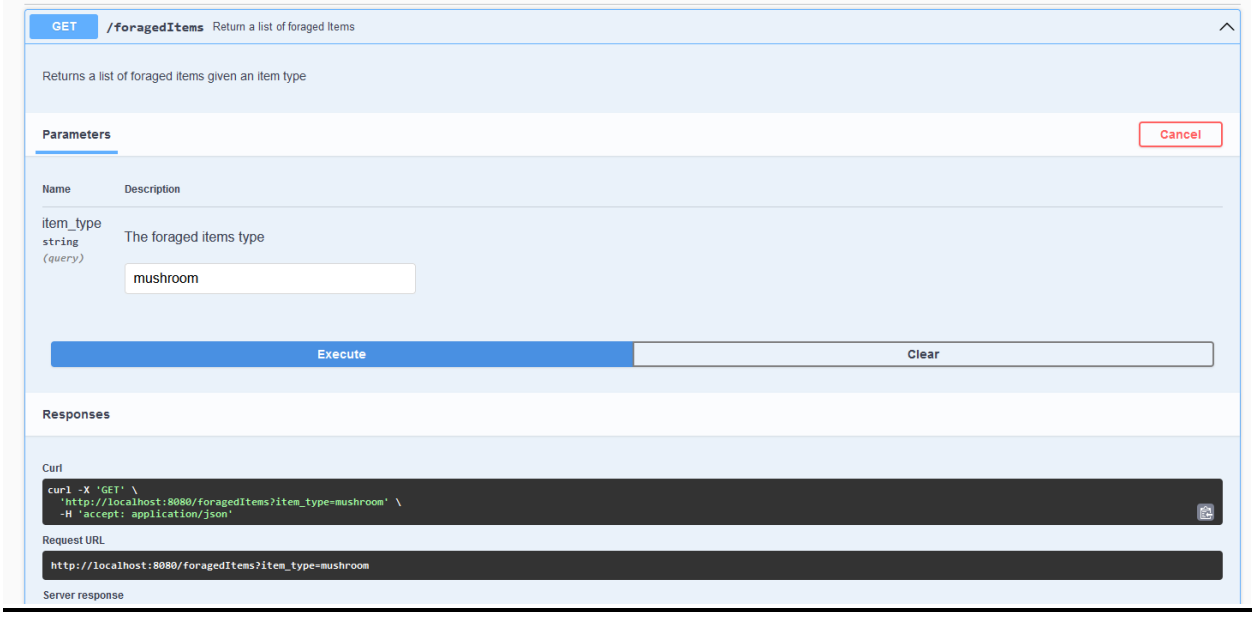


Basic-foraging-controller:

GET:



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Curl

```
curl -X 'GET' \
  'http://localhost:8080/foragedItems?item_type=mushroom' \
  -H 'accept: application/json'
```

Request URL

```
http://localhost:8080/foragedItems?item_type=mushroom
```

Server response

Code	Details
200	Response body

```
[
  {
    "item_ID": 2,
    "item_name": "morel",
    "item_type": "mushroom",
    "species_name": "Morchella Esculenta"
  },
  {
    "item_ID": 3,
    "item_name": "Oyster",
    "item_type": "mushroom",
    "species_name": "Pleurotus Ostereatus"
  }
]
```

Download

Response headers

```
connection: keep-alive
content-type: application/json
date: Wed,07 Sep 2022 21:52:46 GMT
keep-alive: timeout=60
transfer-encoding: chunked
```

Responses

Code	Description	Links
200	A list of items is returned Media type: application/json Controls Accept header. Example Value | Schema	*No links*

```
{
  "item_ID": 0,
  "item_name": "string",
  "item_type": "string",
  "species_name": "string"
}
```

Responses

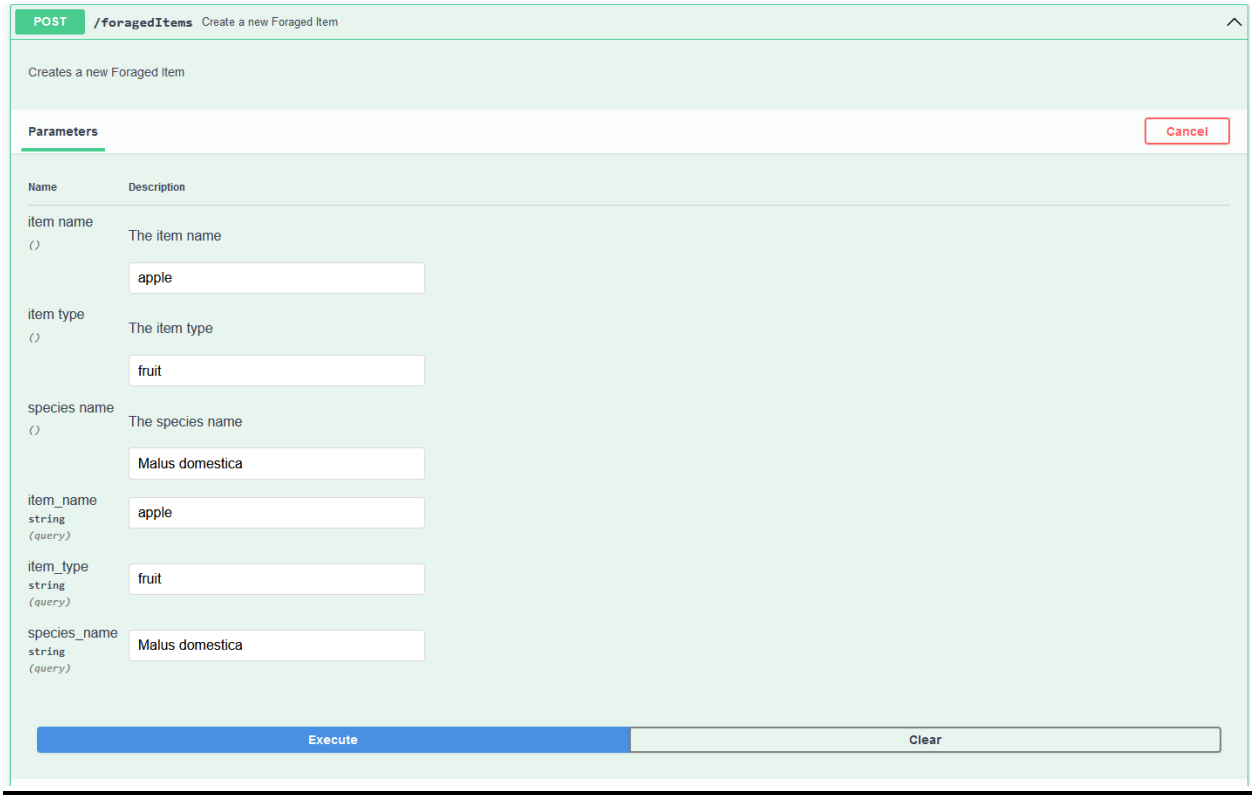
Code	Description	Links
200	A list of items is returned Media type: application/json Controls Accept header. Example Value | Schema	*No links*

```
{
  "item_ID": 0,
  "item_name": "string",
  "item_type": "string",
  "species_name": "string"
}
```

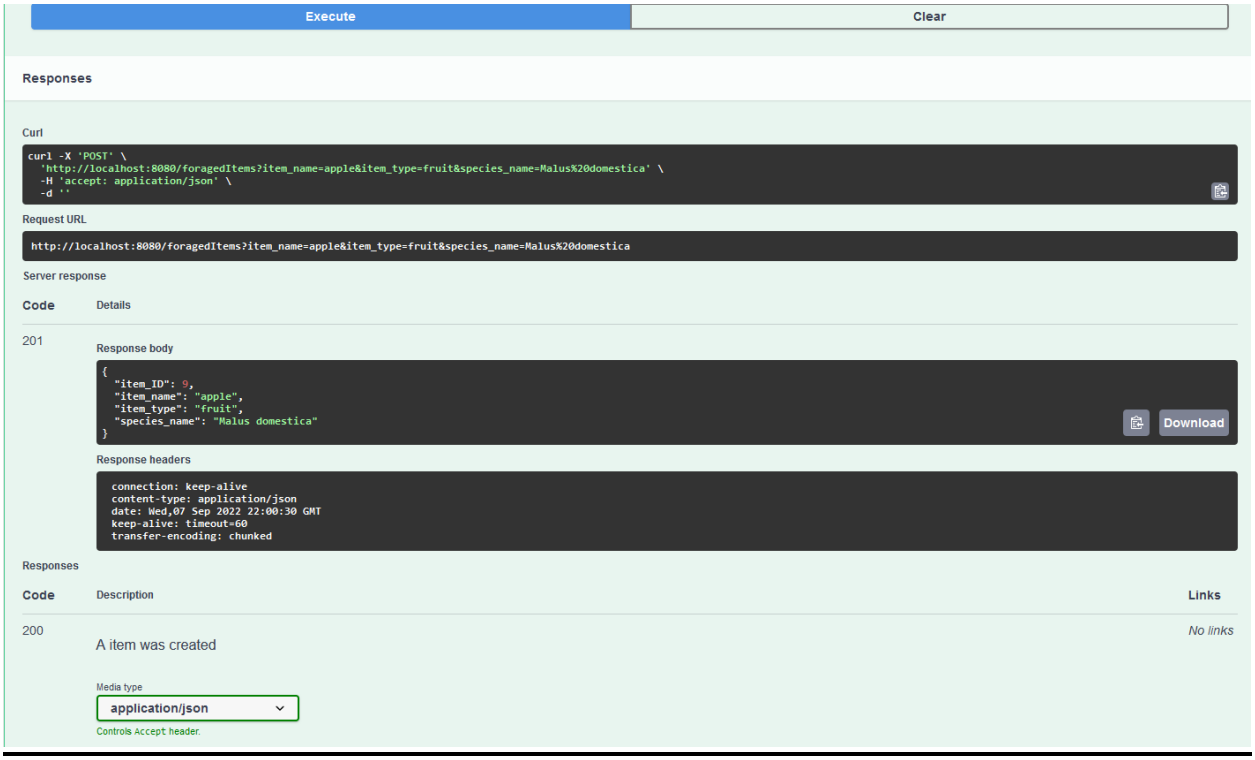
400	The request parameters are invalid Media type: application/json	*No links*
404	No items where found with the input criteria Media type: application/json	*No links*
500	An unplanned error occured. Media type: application/json	*No links*

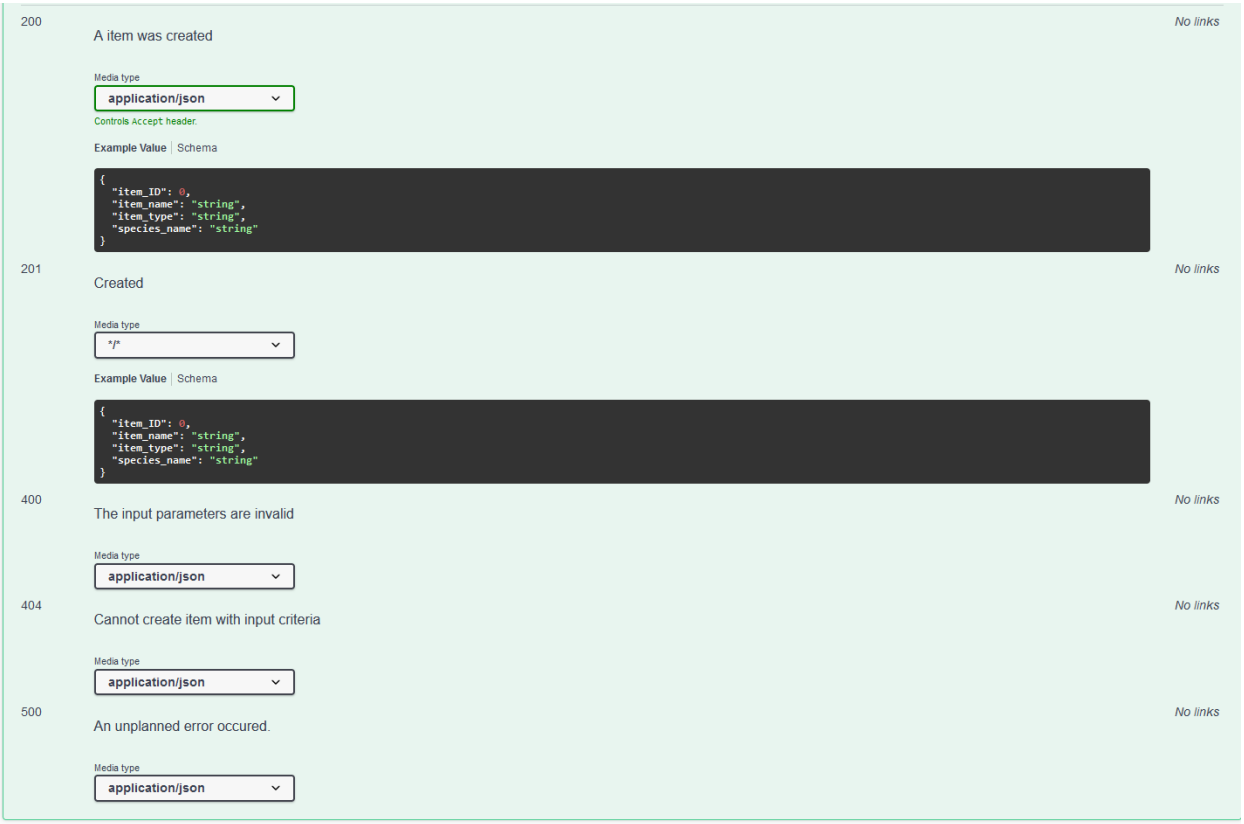
Final project submission

POST:



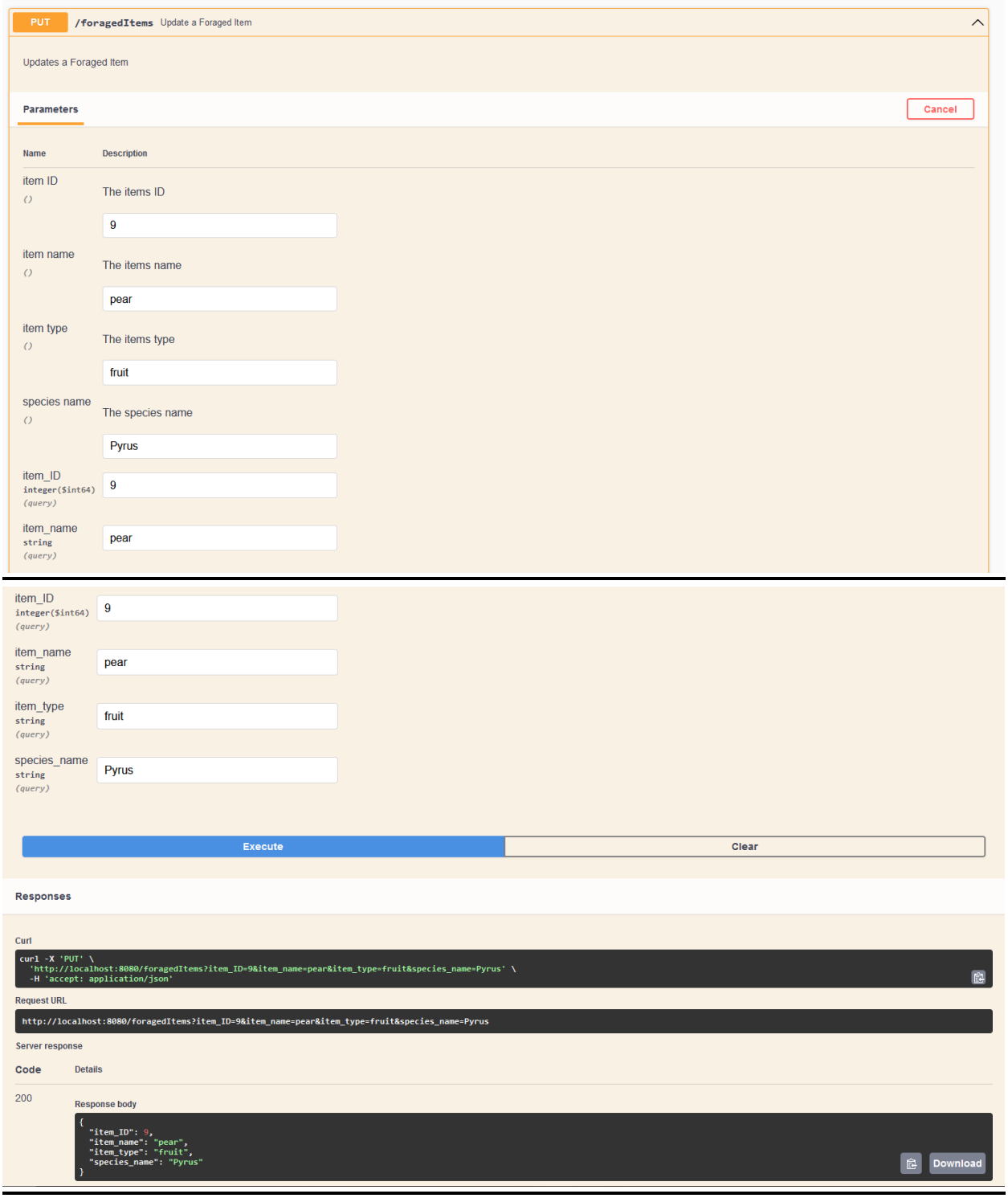
Final project submission





PUT:

Final project submission



PUT /foragedItems Update a Foraged Item

Updates a Foraged Item

Parameters Cancel

Name	Description
item ID ()	The items ID 9
item name ()	The items name pear
item type ()	The items type fruit
species name ()	The species name Pyrus
item_ID integer($int64) (query)	9
item_name string (query)	pear

item_ID
integer($int64)
(query)
9

item_name
string
(query)
pear

item_type
string
(query)
fruit

species_name
string
(query)
Pyrus

Execute Clear

Responses

Curl

```
curl -X 'PUT' \
  'http://localhost:8080/foragedItems?item_ID=9&item_name=pear&item_type=fruit&species_name=Pyrus' \
  -H 'accept: application/json'
```

Request URL

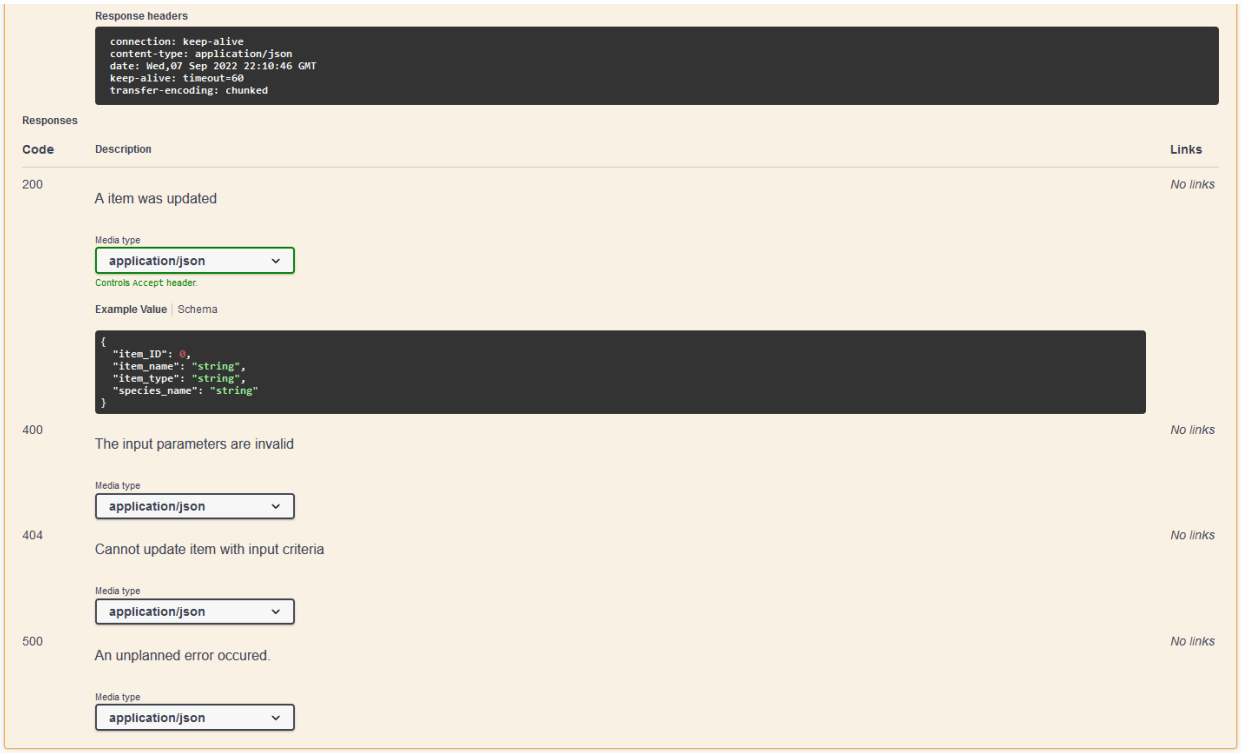
```
http://localhost:8080/foragedItems?item_ID=9&item_name=pear&item_type=fruit&species_name=Pyrus
```

Server response

Code	Details

200	Response body
	{
	"item_ID": 9,
	"item_name": "pear",
	"item_type": "fruit",
	"species_name": "Pyrus"
	}
	Download

Final project submission



Response headers

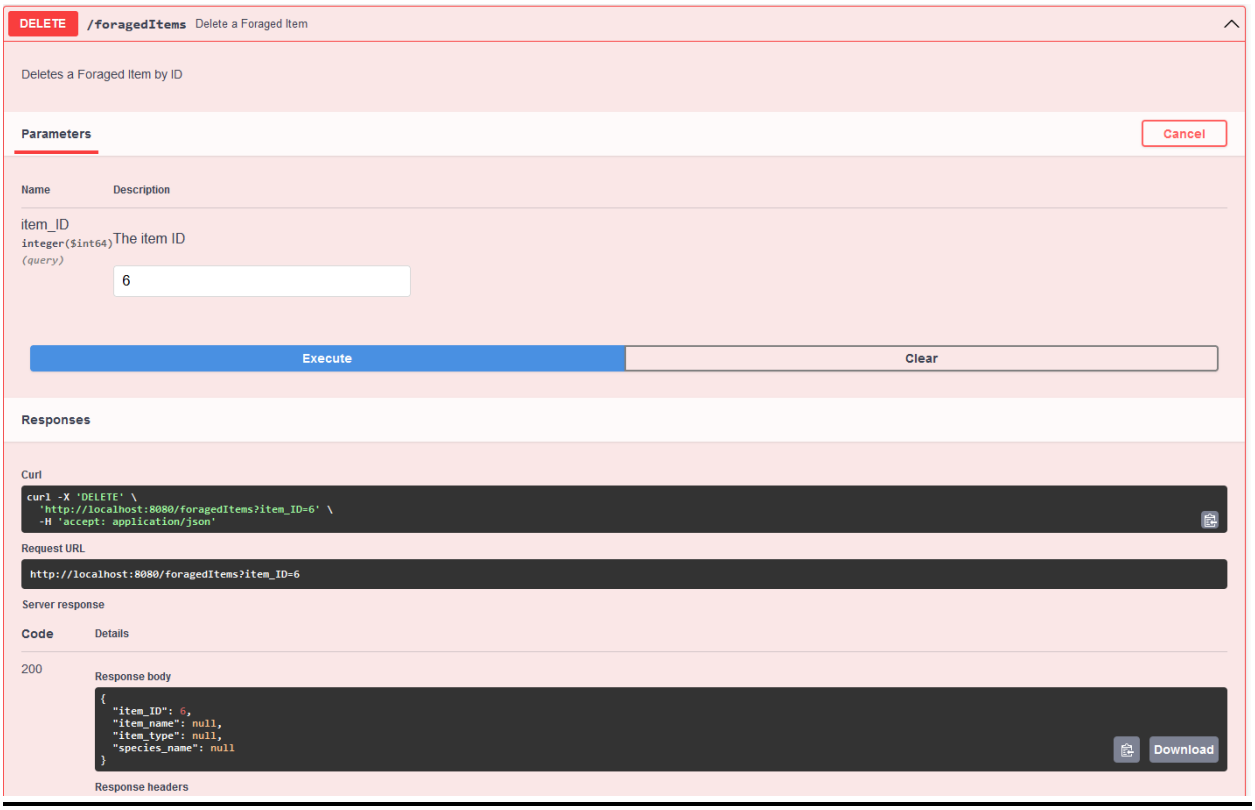
```
connection: keep-alive
content-type: application/json
date: Wed,07 Sep 2022 22:10:46 GMT
keep-alive: timeout=60
transfer-encoding: chunked
```

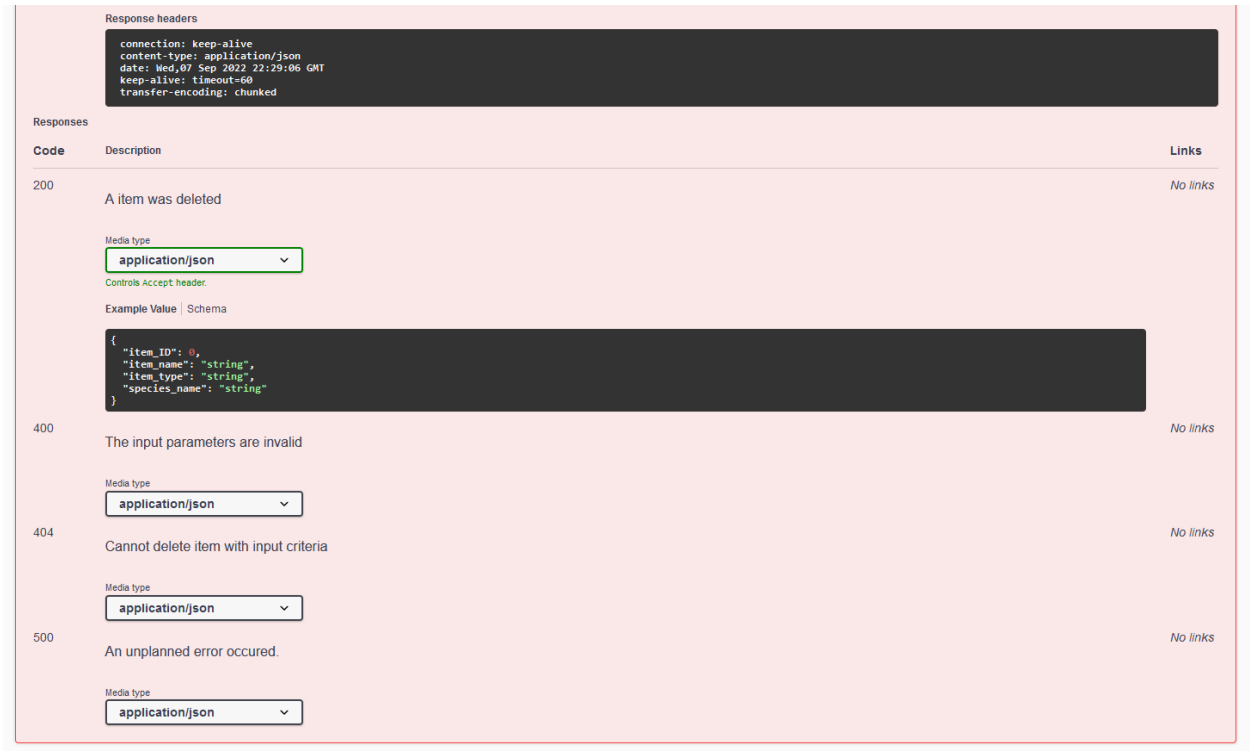
Responses

Code	Description	Links
200	A item was updated Media type: application/json Controls Accept header. Example Value | Schema `{ "item_ID": 0, "item_name": "string", "item_type": "string", "species_name": "string" }`	*No links*
400	The input parameters are invalid Media type: application/json	*No links*
404	Cannot update item with input criteria Media type: application/json	*No links*
500	An unplanned error occured. Media type: application/json	*No links*

DELETE:

Final project submission



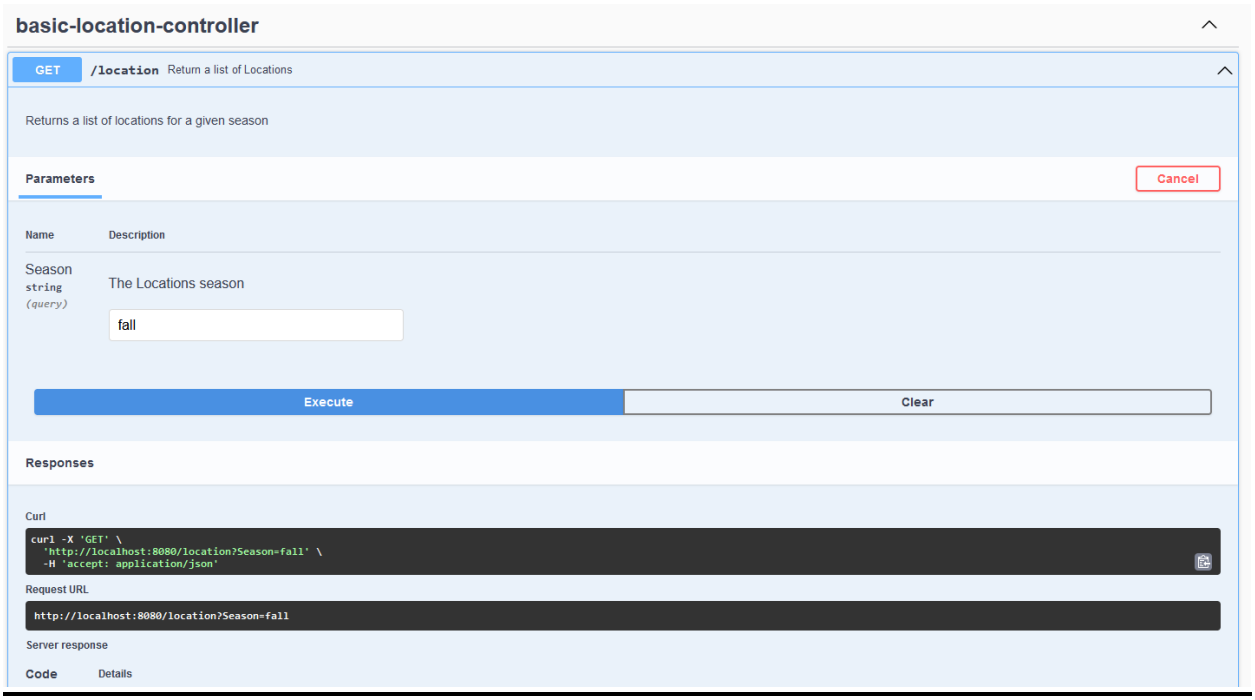


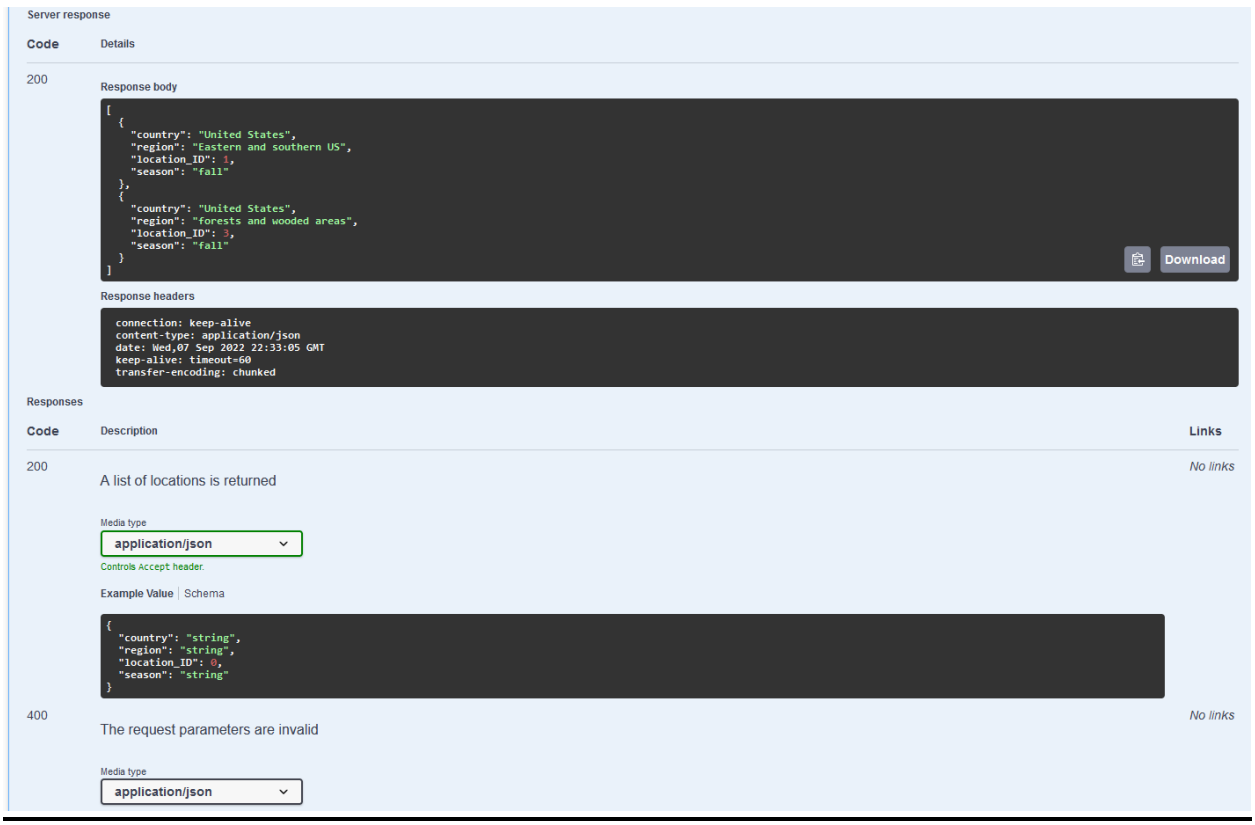
Final project submission

Basic-location-controller:

GET:

Final project submission





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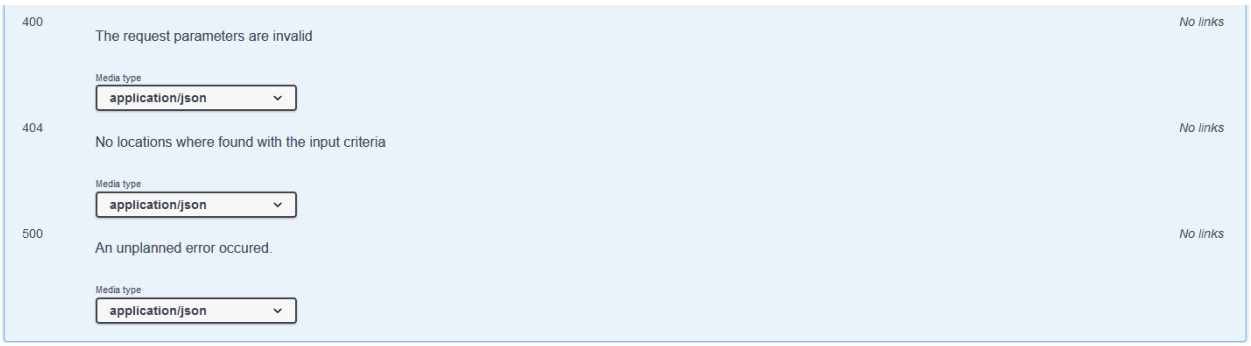
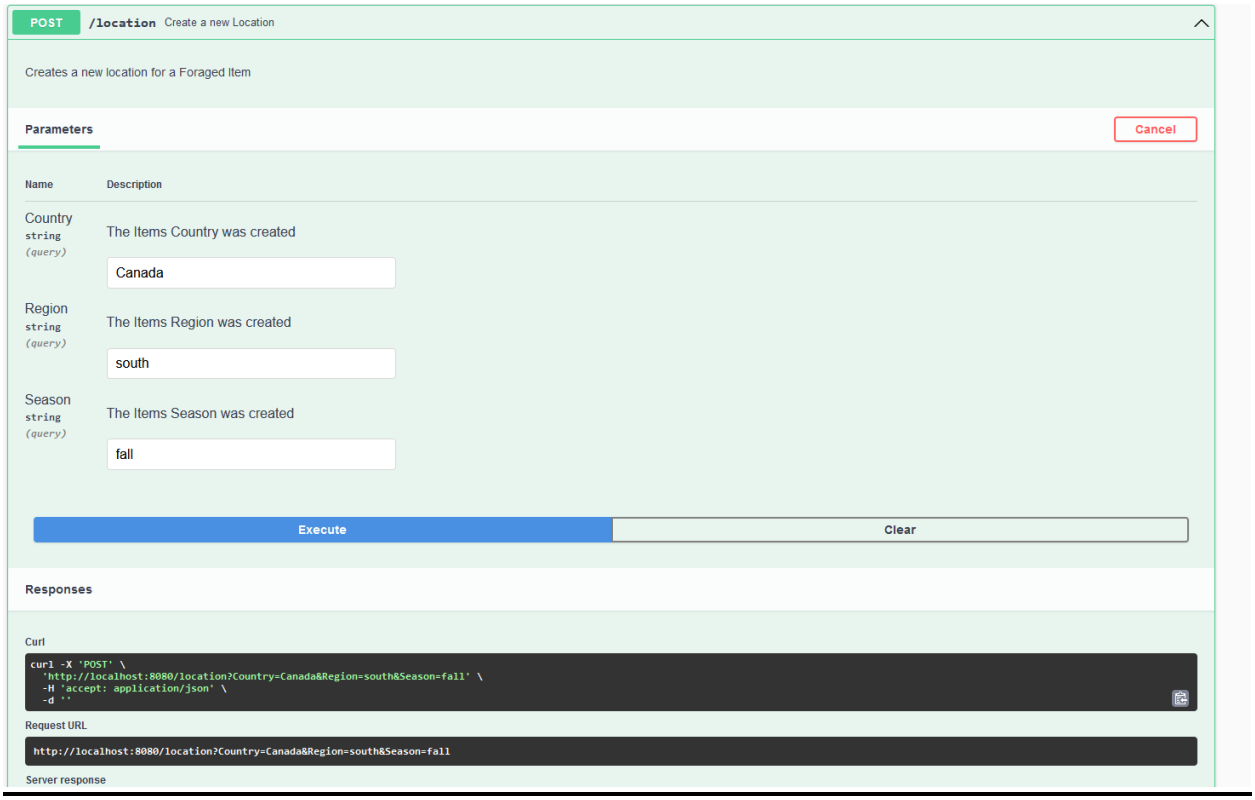
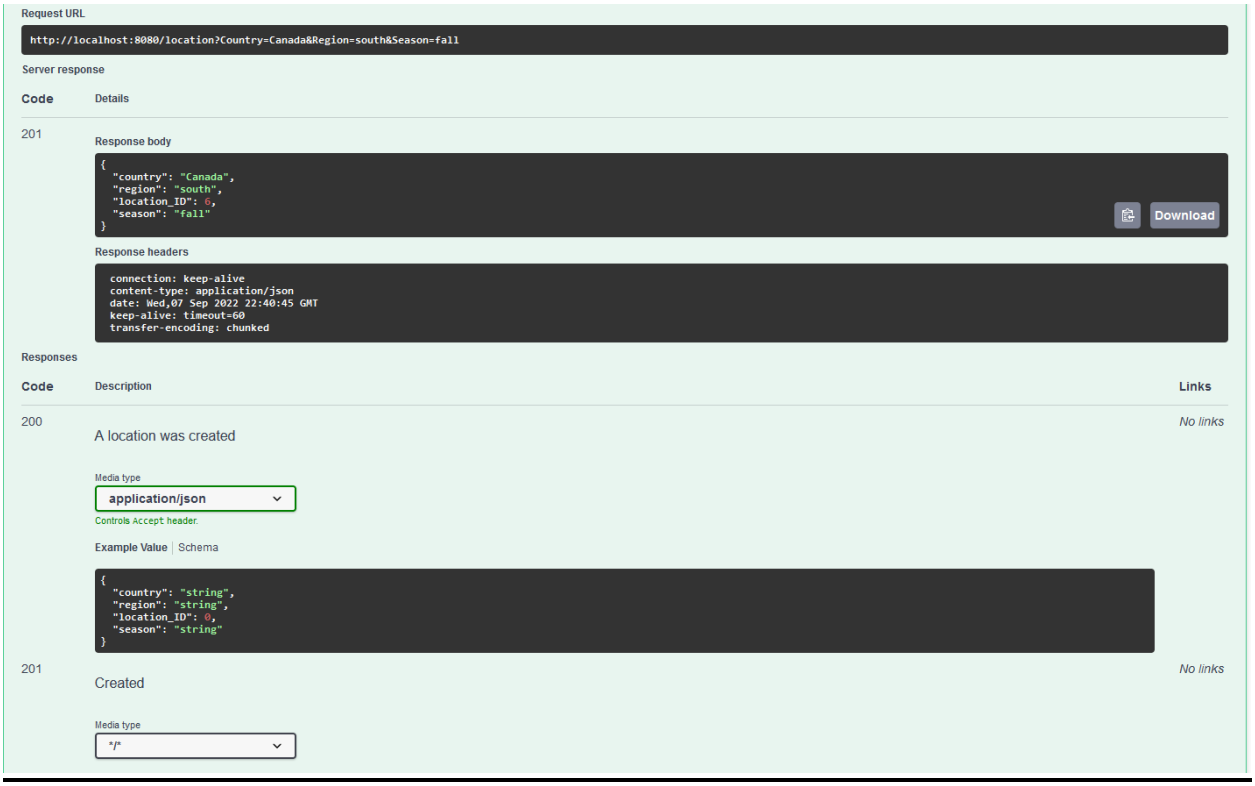


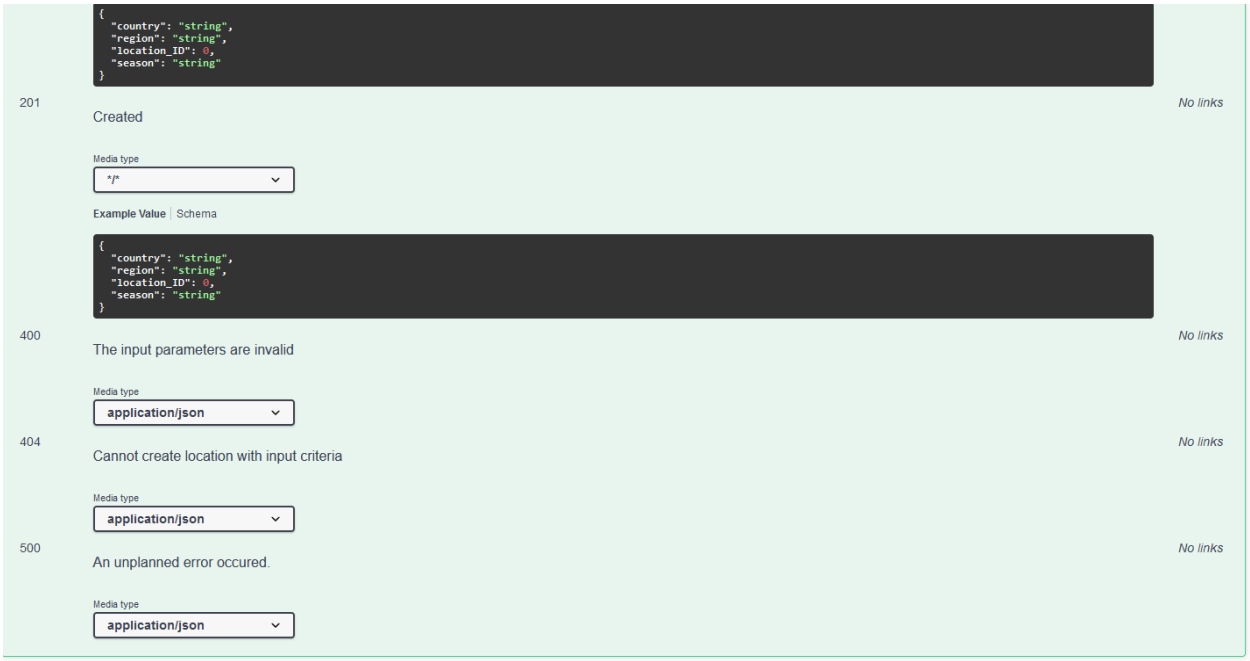
POST:

Final project submission





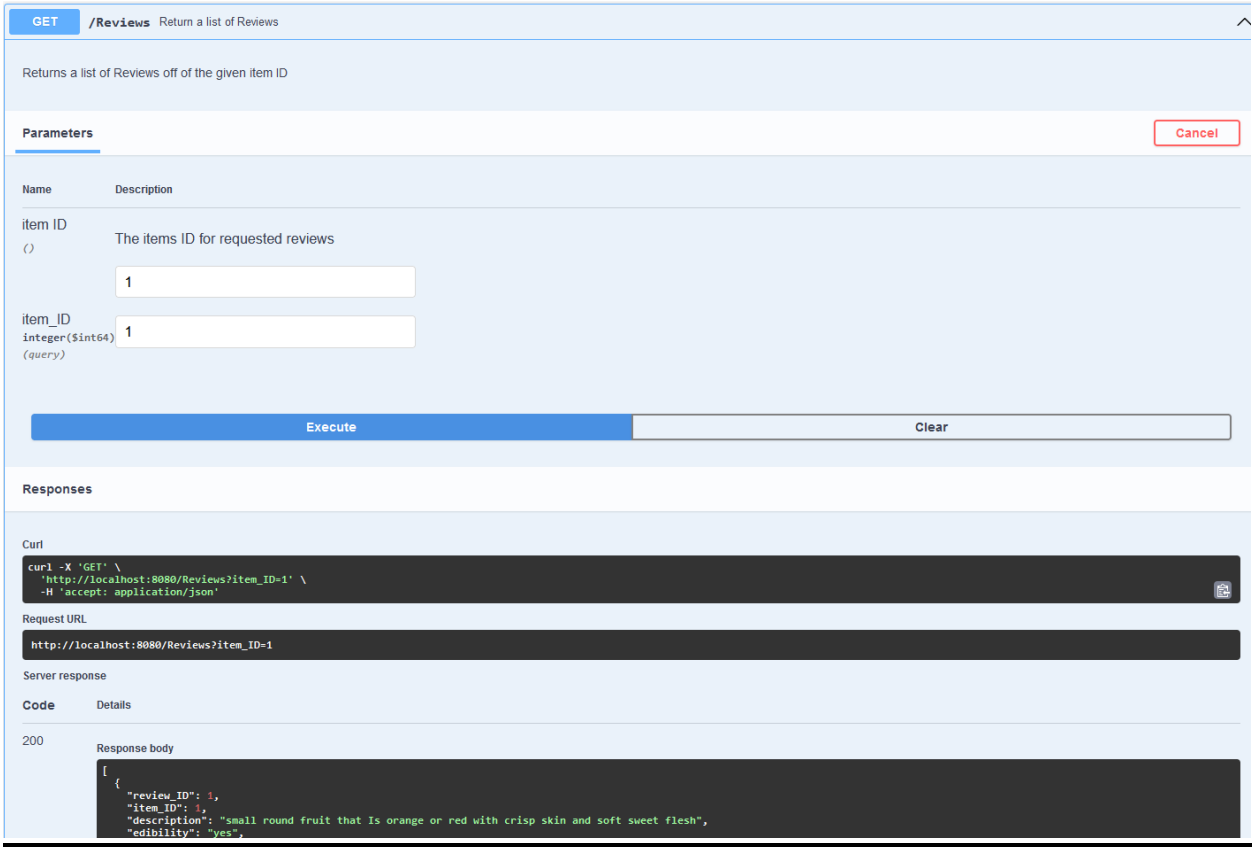
Final project submission

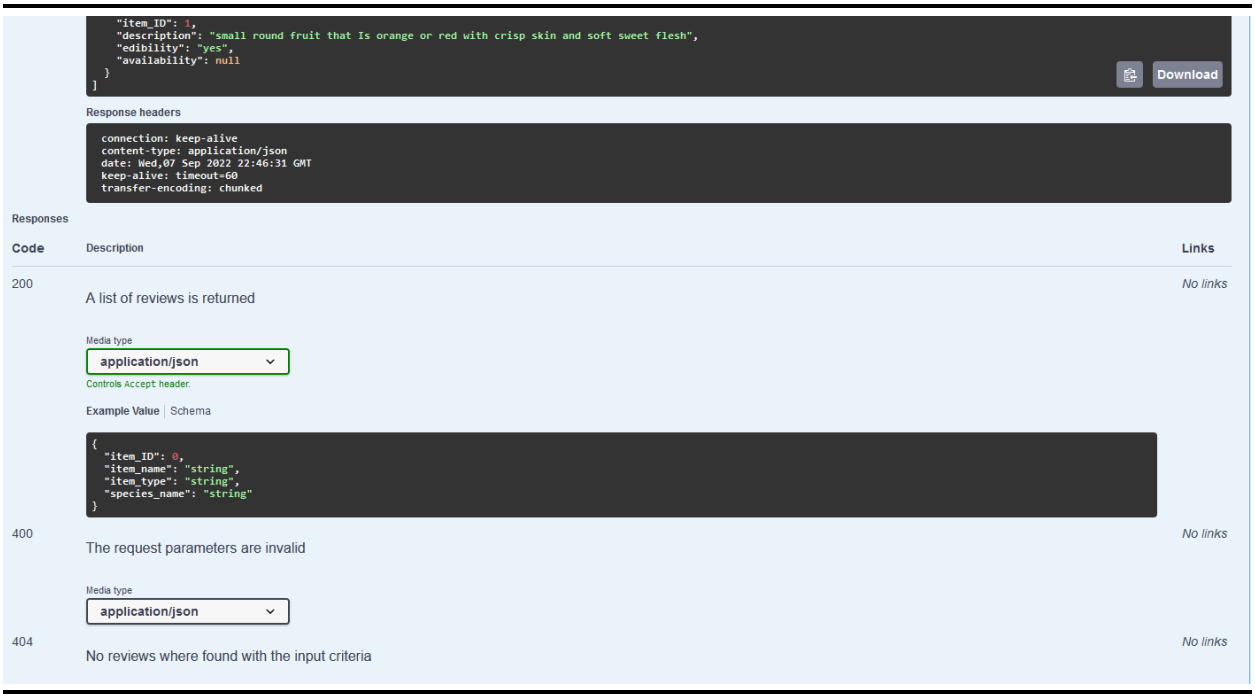


Basic-reviews-controller

GET:

Final project submission





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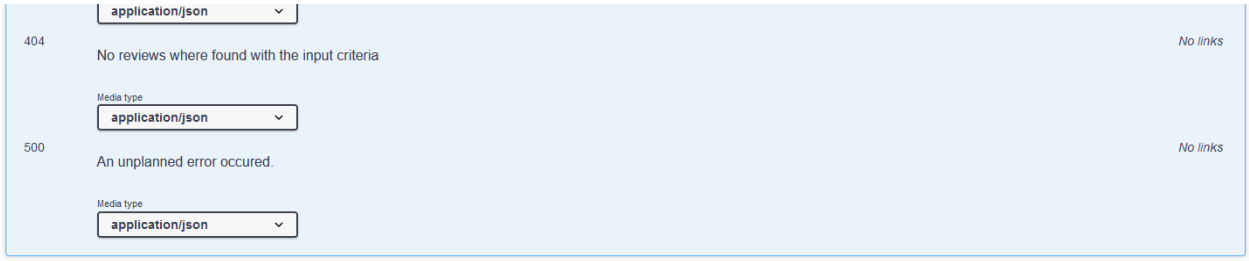
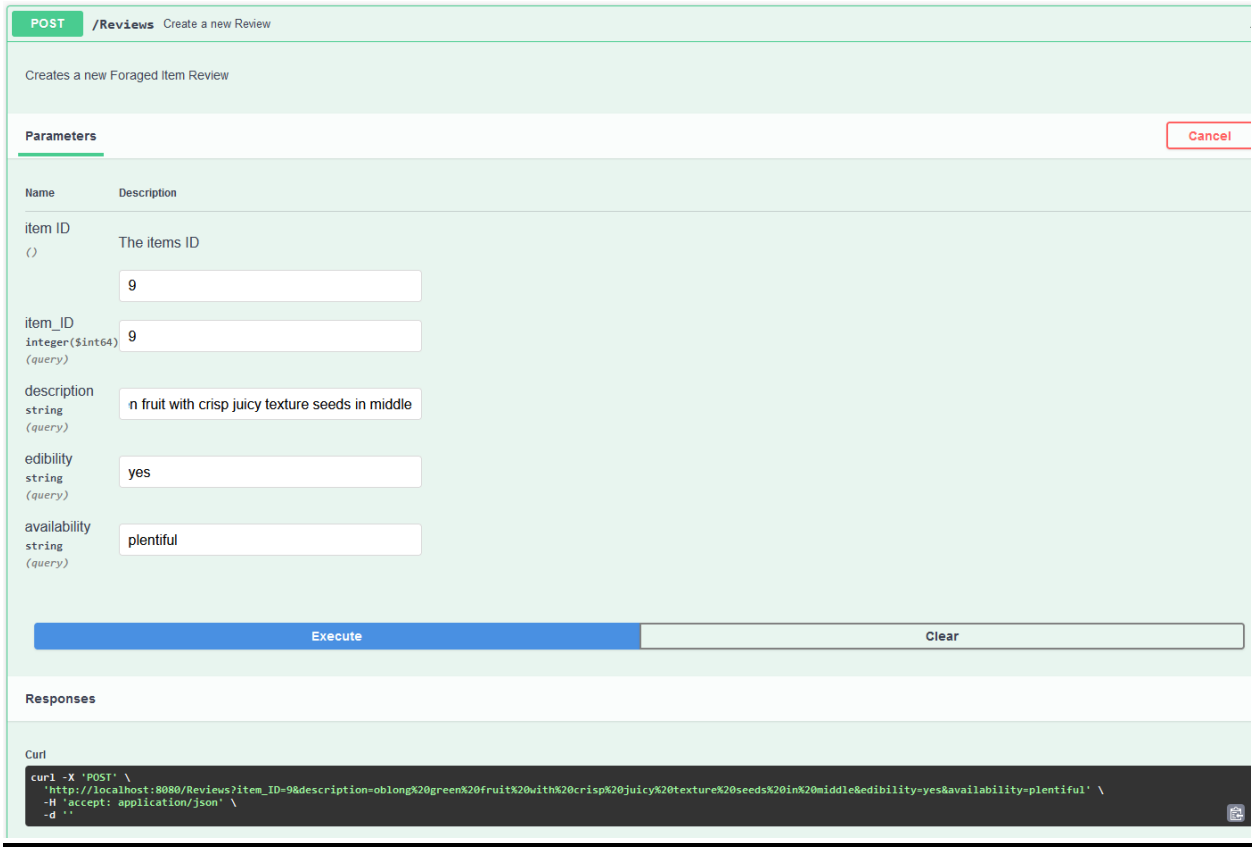
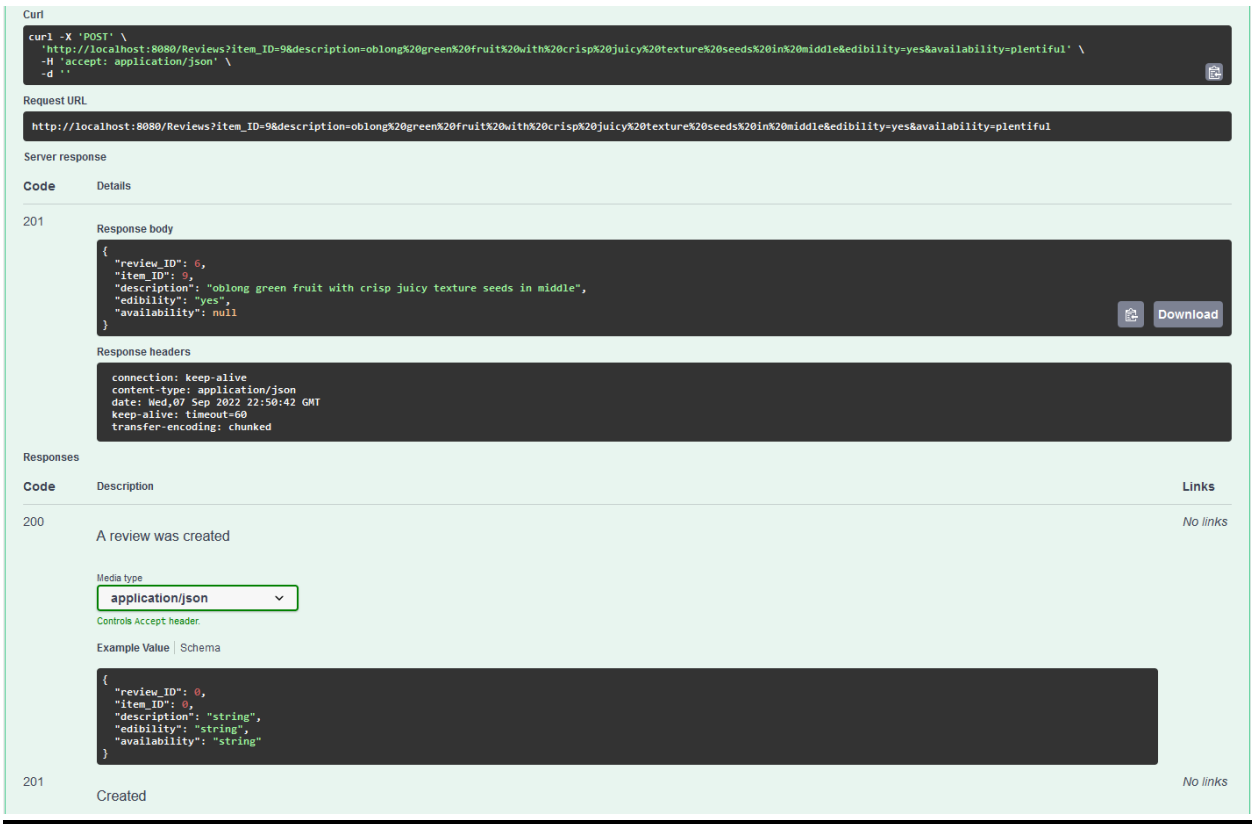


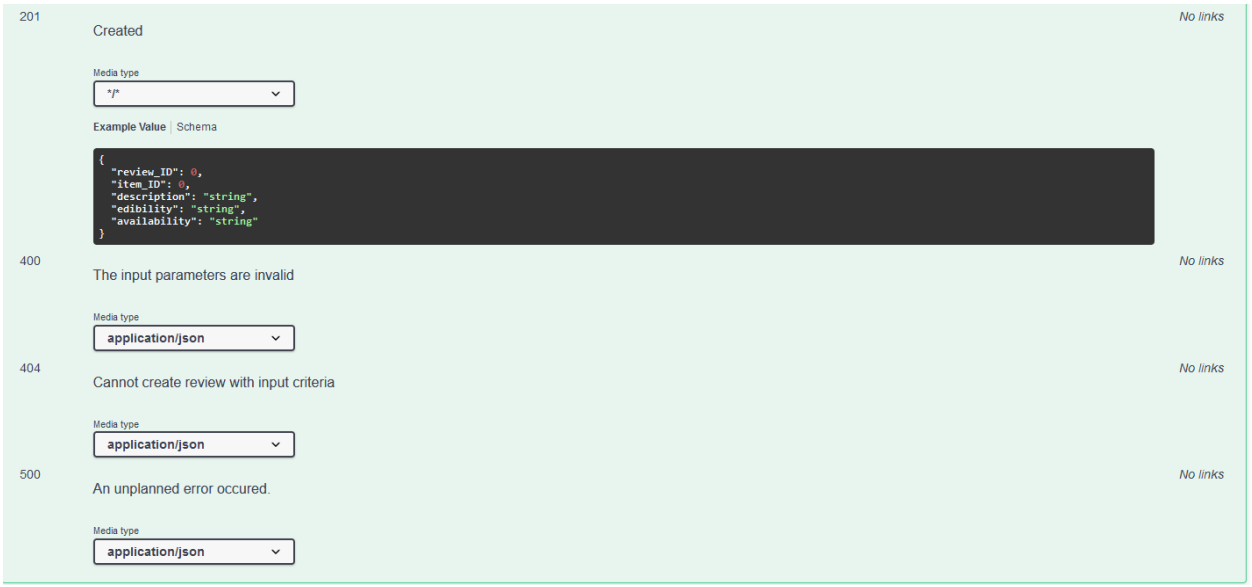
POST:

Final project submission





Final project submission



API documentation: (will also be a copy attached in git)

The foraging-API I built helps ease the process of foraging for food. With the basic features rolled out in foraging-1.0 you can:

Current features for the foraging-API

- Search for foraged items.
- If item does not exist, you can upload it into the system.
- Can update past entries if information is not accurate.
- Deleting an entry is also a possibility with the items name.

- Can return a list of user uploaded reviews for a specified foraged item.
- If the review you were looking for doesn't exist you can upload your own.

- Currently gives you the ability to return a list or locations off of a requested season.
- Can upload your own location for foraging.

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Future features for the Foraging-API

- In future updates I hope to implement the ability to attach images to foraged items.
- & have users be able to upload images to reviews.
- Have a more in-depth connection between foraged items and locations.
- The ability to update previous locations.
- Alter or delete previous reviews left.

Links to my github repo:

https://github.com/lwick95/PromineoTech-Final