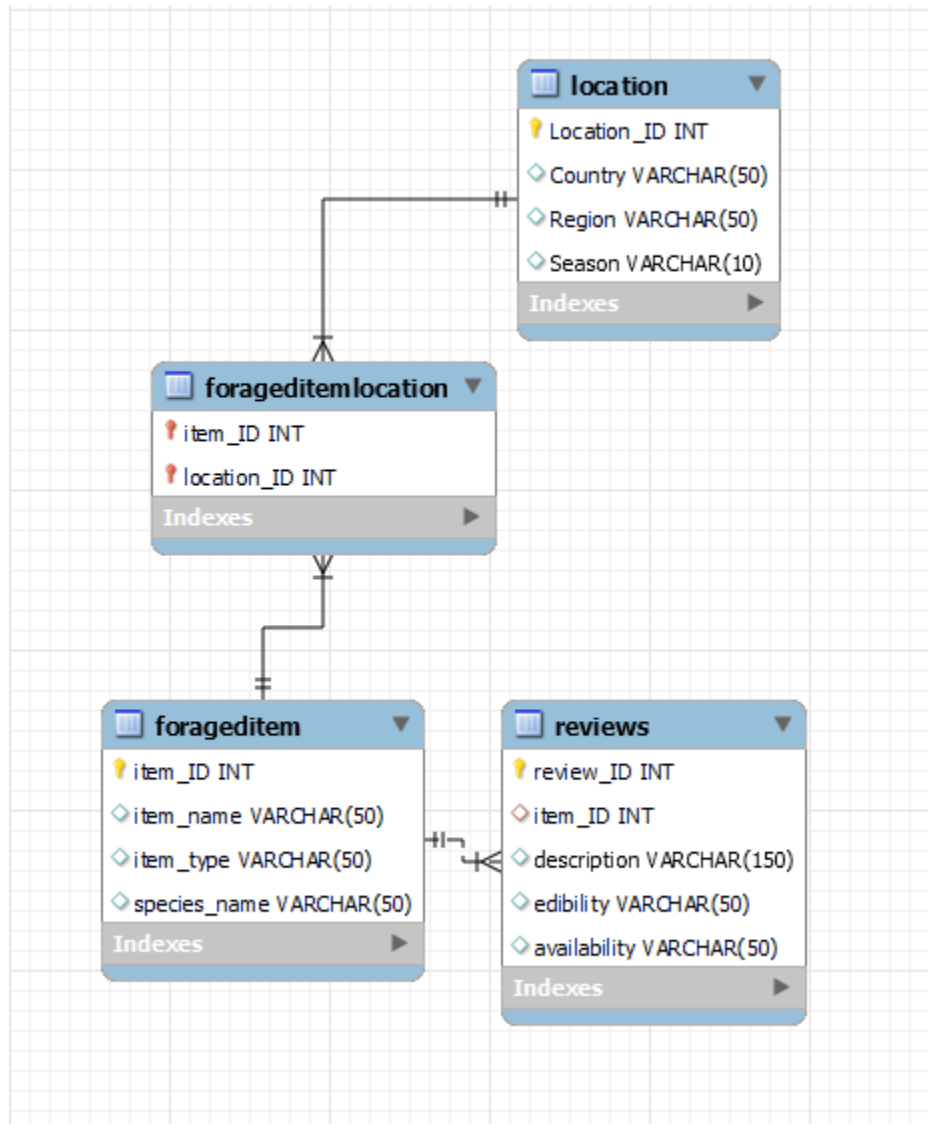


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sql scripts and ERD (will also be located on my github):

ERD:



Foraging DB script:

Final project submission

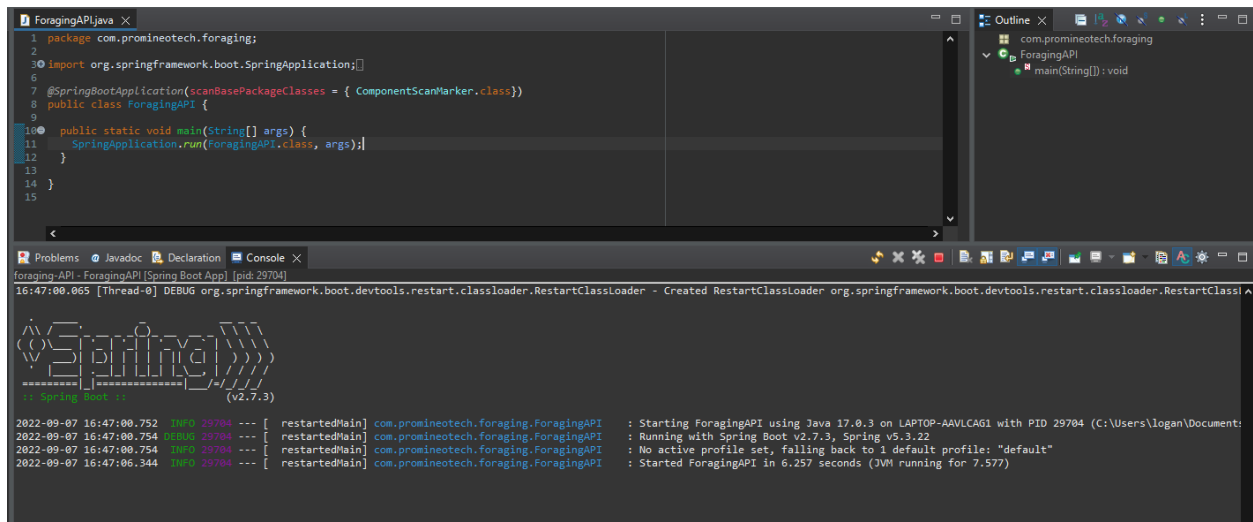
```
1 • DROP TABLE IF EXISTS foragedItemLocation;
2 • DROP TABLE IF EXISTS location;
3 • DROP TABLE IF EXISTS reviews;
4 • DROP TABLE IF EXISTS foragedItem;
5
6
7 • ⊖ CREATE TABLE foragedItem(
8     item_ID int NOT NULL AUTO_INCREMENT,
9     item_name VARCHAR(50),
10    item_type VARCHAR(50),
11    species_name VARCHAR(50),
12    PRIMARY KEY(item_id)
13 );
14
15 • ⊖ CREATE TABLE reviews(
16    review_ID INT NOT NULL AUTO_INCREMENT,
17    item_ID INT,
18    description VARCHAR(150),
19    edibility VARCHAR(50),
20    availability VARCHAR(50),
21    PRIMARY KEY(review_ID),
22    FOREIGN KEY(item_ID) REFERENCES foragedItem(item_ID)
23 );
24
25 • ⊖ CREATE TABLE location(
26    Location_ID INT NOT NULL AUTO_INCREMENT,
27    Country varchar(50),
28    Region varchar(50),
29    Season VARCHAR(10),
30    PRIMARY KEY(location_ID)
31 );
32
33 • ⊖ CREATE TABLE foragedItemLocation(
34    item_ID INT NOT NULL,
35    location_ID INT NOT NULL,
36    PRIMARY KEY (item_ID, location_ID),
37    FOREIGN KEY(item_ID) REFERENCES foragedItem(item_ID),
38    FOREIGN KEY(location_ID) REFERENCES location(location_ID)
39
```

Final project submission

Foraging data script:

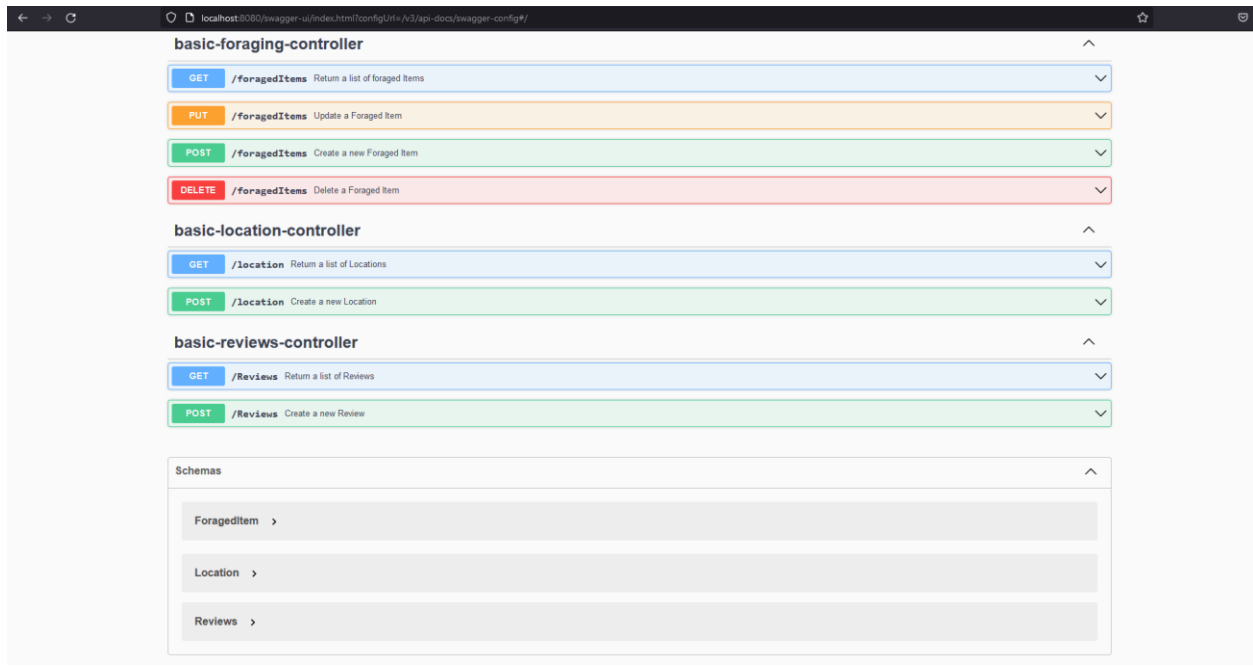
```
1 • INSERT INTO forageditem (item_name, item_type, species_name) VALUES('persimmon', 'fruit', 'Diospyros Virginiana');
2 • INSERT INTO forageditem (item_name, item_type, species_name) VALUES('morel', 'mushroom', 'Morchella Esculenta');
3 • INSERT INTO forageditem (item_name, item_type, species_name) VALUES('Oyster', 'mushroom', 'Pleurotus Ostreatus');
4 • INSERT INTO forageditem (item_name, item_type, species_name) VALUES('Nettles', 'herb', 'Dioica');
5 • INSERT INTO forageditem (item_name, item_type, species_name) VALUES('Deadly Nightshade', 'berry', 'Atropa belladonna');
6
7 • INSERT INTO location (Country, Region, Season) VALUES('United States', 'Eastern and southern US', 'fall');
8 • INSERT INTO location (Country, Region, Season) VALUES('United States', 'forests and wooded areas', 'spring');
9 • INSERT INTO location (Country, Region, Season) VALUES('United States', 'forests and wooded areas', 'fall');
10 • INSERT INTO location (Country, Region, Season) VALUES('United States', 'wide spread', 'spring');
11 • INSERT INTO location (Country, Region, Season) VALUES('United States', 'Northeast and the Pacific Northwest', 'summer');
12
13 • 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');
14 • 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');
15 • 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');
16 • 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 plant');
17 • 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
18
19
```

Pictures of Foraging-API running in springboot:



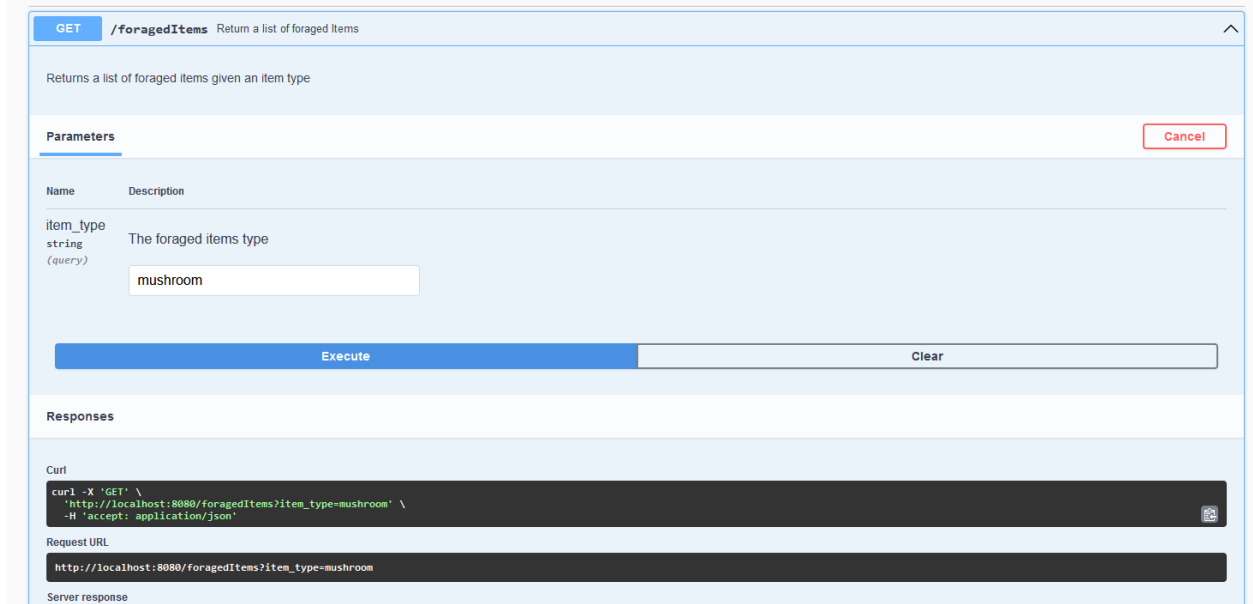
Pictures of foraging running in swagger:

Final project submission



Basic-foraging-controller:

GET:



Final project submission

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": 1,
  "item_name": "morel",
  "item_type": "mushroom",
  "species_name": "Morchella Esculenta"
},
{
  "item_ID": 3,
  "item_name": "Oyster",
  "item_type": "mushroom",
  "species_name": "Pleurotus Ostereatus"
}
```

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

No links

Media type

Controls Accept header:

Example Value | Schema

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

Responses

Code Description

Links

200

A list of items is returned

No links

Media type

Controls Accept header:

Example Value | Schema

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

400

The request parameters are invalid

No links

Media type

404

No items where found with the input criteria

No links

Media type

500

An unplanned error occurred.

No links

Media type

Final project submission

POST:

POST

/foragedItems

Create a new Foraged Item

^

Creates a new Foraged Item

Parameters

Cancel

Name	Description
item name ()	The item name
	<input type="text" value="apple"/>
item type ()	The item type
	<input type="text" value="fruit"/>
species name ()	The species name
	<input type="text" value="Malus domestica"/>
item_name string (query)	<input type="text" value="apple"/>
item_type string (query)	<input type="text" value="fruit"/>
species_name string (query)	<input type="text" value="Malus domestica"/>

Execute

Clear

Final project submission

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:8080/foragedItems?item_name=apple&item_type=fruit&species_name=Malus%20domestica' \
  -H 'accept: application/json' \
  -d ''
```

Request URL

```
http://localhost:8080/foragedItems?item_name=apple&item_type=fruit&species_name=Malus%20domestica
```

Server response

Code

Details

201

Response body

```
{
  "item_ID": 0,
  "item_name": "apple",
  "item_type": "fruit",
  "species_name": "Malus domestica"
}
```

Response headers

```
connection: keep-alive
content-type: application/json
date: Wed, 07 Sep 2022 22:00:30 GMT
keep-alive: timeout=60
transfer-encoding: chunked
```

Responses

Code	Description	Links
200	A item was created	No links

200

A item was created

No links

Media type

application/json

Controls Accept header.

Example Value

Schema

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

201

Created

No links

Media type

"/"

Example Value

Schema

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

400

The input parameters are invalid

No links

Media type

application/json

404

Cannot create item with input criteria

No links

Media type

application/json

500

An unplanned error ocured.

No links

Media type

application/json

PUT:

Final project submission

PUT

/foragedItems Update a Foraged Item

^

Updates a Foraged Item

Parameters

Cancel

Name	Description
item ID ()	The items ID
	<input type="text" value="9"/>
item name ()	The items name
	<input type="text" value="pear"/>
item type ()	The items type
	<input type="text" value="fruit"/>
species name ()	The species name
	<input type="text" value="Pyrus"/>
item_ID integer(\$int64) (query)	<input type="text" value="9"/>
item_name string (query)	<input type="text" value="pear"/>

item_ID
integer(\$int64)
(query)

item_name
string
(query)

item_type
string
(query)

species_name
string
(query)

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		
<pre>connection: keep-alive content-type: application/json date: Wed,07 Sep 2022 22:10:46 GMT keep-alive: timeout=60 transfer-encoding: chunked</pre>		
Responses		
Code	Description	Links
200	A item was updated	No links
<div>Media type</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div><pre>{ "item_ID": 0, "item_name": "string", "item_type": "string", "species_name": "string" }</pre></div>		
400	The input parameters are invalid	No links
<div>Media type</div> <div>application/json</div>		
404	Cannot update item with input criteria	No links
<div>Media type</div> <div>application/json</div>		
500	An unplanned error occurred.	No links
<div>Media type</div> <div>application/json</div>		

DELETE:

Final project submission

DELETE

/foragedItems Delete a Foraged Item

⌵

Deletes a Foraged Item by ID

Parameters

Cancel

Name	Description
item_ID	
integer(\$int64)	The item ID
(query)	
<input type="text" value="6"/>	

Execute

Clear

Responses

Curl

```
curl -X 'DELETE' \
'http://localhost:8080/foragedItems?item_ID=6' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8080/foragedItems?item_ID=6
```

Server response

Code	Details
200	<div>Response body</div> <div><pre>{ "item_ID": 6, "item_name": null, "item_type": null, "species_name": null }</pre></div> <div><div>Download</div></div>

Response headers

```
connection: keep-alive
content-type: application/json
date: Wed,07 Sep 2022 22:29:06 GMT
keep-alive: timeout=60
transfer-encoding: chunked
```

Responses

Code	Description	Links
200	A item was deleted	No links
400	The input parameters are invalid	No links
404	Cannot delete item with input criteria	No links
500	An unplanned error ocured.	No links

Final project submission

Basic-location-controller:

GET:

Final project submission

basic-location-controller

GET

/location

Return a list of Locations

Returns a list of locations for a given season

Parameters

Cancel

Name	Description
Season string (query)	The Locations season

fall

Execute

Clear

Responses

Curl

curl -X 'GET' \n'http://localhost:8080/location?Season=fall' \n-H 'accept: application/json'

Request URL

http://localhost:8080/location?Season=fall

Server response

Code

Details

Server response

Code

Details

200

Response body

```
{
  {
    "country": "United States",
    "region": "Eastern and southern US",
    "location_ID": 1,
    "season": "fall"
  },
  {
    "country": "United States",
    "region": "forests and wooded areas",
    "location_ID": 3,
    "season": "fall"
  }
}
```

Download

Response headers

```
connection: keep-alive
content-type: application/json
date: Wed, 07 Sep 2022 22:33:05 GMT
keep-alive: timeout=60
transfer-encoding: chunked
```

Responses

Code

Description

Links

200

A list of locations is returned

No links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{
  "country": "string",
  "region": "string",
  "location_ID": 0,
  "season": "string"
}
```

400

The request parameters are invalid

No links

Media type

application/json

Final project submission

400	The request parameters are invalid	No links
	Media type <div>application/json</div>	
404	No locations where found with the input criteria	No links
	Media type <div>application/json</div>	
500	An unplanned error occured.	No links
	Media type <div>application/json</div>	

POST:

Final project submission

POST

/location

Create a new Location

^

Creates a new location for a Foraged Item

Parameters

Cancel

Name	Description
Country string (query)	The Items Country was created
Region string (query)	The Items Region was created
Season string (query)	The Items Season was created

Execute

Clear

Responses

Curl

curl -X 'POST' \
 'http://localhost:8080/location?Country=Canada&Region=south&Season=fall' \
 -H 'accept: application/json' \
 -d ''

Request URL

http://localhost:8080/location?Country=Canada&Region=south&Season=fall

Server response

Request URL

http://localhost:8080/location?Country=Canada&Region=south&Season=fall

Server response

Code

Details

201

Response body

{
 "country": "Canada",
 "region": "south",
 "location_ID": 6,
 "season": "fall"
}

Download

Response headers

connection: keep-alive
content-type: application/json
date: Wed, 07 Sep 2022 22:40:45 GMT
keep-alive: timeout=60
transfer-encoding: chunked

Responses

Code	Description	Links
200	A location was created	No links
201	Created	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

{
 "country": "string",
 "region": "string",
 "location_ID": 0,
 "season": "string"
}

Media type

/

Final project submission

201	<div><pre>{ "country": "string", "region": "string", "location_ID": 0, "season": "string" }</pre></div> <div>Created</div> <div>Media type */*</div> <div>Example Value Schema</div> <div><pre>{ "country": "string", "region": "string", "location_ID": 0, "season": "string" }</pre></div>	No links
400	<div>The input parameters are invalid</div> <div>Media type application/json</div>	No links
404	<div>Cannot create location with input criteria</div> <div>Media type application/json</div>	No links
500	<div>An unplanned error ocured.</div> <div>Media type application/json</div>	No links

Basic-reviews-controller

GET:

Final project submission

GET

/Reviews

Return a list of Reviews

^

Returns a list of Reviews off of the given item ID

Parameters

Cancel

Name	Description
item ID (<code>)</code>	The items ID for requested reviews <input type="text" value="1"/>
item_ID integer(\$int64) (<code>query</code>)	<input type="text" value="1"/>

Execute

Clear

Responses

Curl

```
curl -X 'GET' \
  'http://localhost:8080/Reviews?item_ID=1' \
  -H 'accept: application/json'
```

Request URL

```
http://localhost:8080/Reviews?item_ID=1
```

Server response

Code	Details
200	<div>Response body</div> <div><pre>[{ "review_ID": 1, "item_ID": 1, "description": "small round fruit that is orange or red with crisp skin and soft sweet flesh", "edibility": "yes", "availability": null }]</pre></div> <div><div>Download</div></div>

Response headers

```
connection: keep-alive
content-type: application/json
date: Wed, 07 Sep 2022 22:46:31 GMT
keep-alive: timeout=60
transfer-encoding: chunked
```

Responses

Code	Description	Links
200	A list of reviews is returned <div>Media type <div>application/json</div><div>Controls Accept header.</div><div>Example Value Schema</div><div><pre>{ "item_ID": 0, "item_name": "string", "item_type": "string", "species_name": "string" }</pre></div></div>	No links
400	The request parameters are invalid <div>Media type <div>application/json</div></div>	No links
404	No reviews were found with the input criteria	No links

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404	<div>application/json</div>	No reviews where found with the input criteria	No links
500	<div>Media type application/json</div>	An unplanned error occured.	No links
	<div>Media type application/json</div>		

POST:

Final project submission

POST

/Reviews

Create a new Review

Creates a new Foraged Item Review

Parameters

Cancel

Name	Description
item ID ()	The items ID
	<input type="text" value="9"/>
item_ID integer(\$int64) (query)	<input type="text" value="9"/>
description string (query)	<input type="text" value="n fruit with crisp juicy texture seeds in middle"/>
edibility string (query)	<input type="text" value="yes"/>
availability string (query)	<input type="text" value="plentiful"/>

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:8080/Reviews?item_ID=9&description=oblong%20green%20fruit%20with%20crisp%20juicy%20texture%20seeds%20in%20middle&edibility=yes&availability=plentiful' \
  -H 'accept: application/json' \
  -d ''
```

Curl

```
curl -X 'POST' \
  'http://localhost:8080/Reviews?item_ID=9&description=oblong%20green%20fruit%20with%20crisp%20juicy%20texture%20seeds%20in%20middle&edibility=yes&availability=plentiful' \
  -H 'accept: application/json' \
  -d ''
```

Request URL

http://localhost:8080/Reviews?item_ID=9&description=oblong%20green%20fruit%20with%20crisp%20juicy%20texture%20seeds%20in%20middle&edibility=yes&availability=plentiful

Server response

Code	Details
201	<div><div>Response body</div><div><pre>{ "review_ID": 6, "item_ID": 9, "description": "oblong green fruit with crisp juicy texture seeds in middle", "edibility": "yes", "availability": null }</pre></div><div>Download</div></div> <div><div>Response headers</div><div><pre>connection: keep-alive content-type: application/json date: Wed, 07 Sep 2022 22:50:42 GMT keep-alive: timeout=60 transfer-encoding: chunked</pre></div></div>

Responses

Code	Description	Links
200	A review was created	No links
	<div><div>Media type</div><div>application/json</div><div>Controls Accept header</div><div>Example Value Schema</div><div><pre>{ "review_ID": 0, "item_ID": 0, "description": "string", "edibility": "string", "availability": "string" }</pre></div></div>	
201	Created	No links

Final project submission

201	Created	No links
	<div>Media type</div> <div>*/</div>	
	<div>Example Value</div> <div>Schema</div>	
	<pre>{ "review_ID": 0, "item_ID": 0, "description": "string", "edibility": "string", "availability": "string" }</pre>	
400	The input parameters are invalid	No links
	<div>Media type</div> <div>application/json</div>	
404	Cannot create review with input criteria	No links
	<div>Media type</div> <div>application/json</div>	
500	An unplanned error occurred.	No links
	<div>Media type</div> <div>application/json</div>	

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 of locations off of a requested season.
 - Can upload your own location for foraging.

Final project submission

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>