

Portfolio Assignment - FitnessTracker: API Spec

API URL: <https://fitnesstracker-332400.wl.r.appspot.com/>

Auth0 account creation URL: <https://fitnesstracker-332400.wl.r.appspot.com/login>

Freddy Hoang

CS 493: Cloud Application Development

Fall 2021

Oregon State University

Last Update: November 20, 2021. 12:54 pm Pacific

Change Log	2
Data Model	3
Create a Date	4
Create a Meal.....	6
Create a Food.....	8
Get a Date	10
Get a Meal.....	12
Get a Food.....	14
List all Dates	16
List all Meals.....	18
List all Foods.....	20
List all Users	22
Delete a Date	23
Delete a Meal.....	24
Delete a Food.....	25
Update a Date	26
Update a Meal.....	28
Update a Food.....	30
Attach a food to a meal.....	32
Attach a meal to a date.....	33
Remove a food from a meal	34
Remove a meal from a date.....	35

Get the meals related to a specific food.....	36
Get the foods related to a specific meal.....	38
Get the dates related to a specific meal.....	40
Get the meals related to a specific date	42

Change Log

Version	Change	Date
1.0	Initial version.	Nov 20, 2021

Data Model

The app stores three kinds of entities in Datastore, Dates, Meals and Foods.

Dates

Property	Data Type	Notes
id	Integer	The id of the boat. Datastore automatically generates it.
date	String	Date specified [i.e. 11/15/21] – month, day, year
weekday	String	The weekday [i.e. Monday]
week	String	The week
year	String	The year
day_number	String	The date number
owner	String	The user who created, if JWT sent; otherwise null
meals	List	List that contains the meals associated to the date
calories	Integer	Sum of calories for all the meals associated
protein_g	Integer	Sum of proteins_g for all the meals associated
fats_g	Integer	Sum of fats_g for all the meals associated
carbohydrates_g	Integer	Sum of carbohydrates_g for all the meals associated

Meals

Property	Data Type	Notes
Id	Integer	The id of the boat. Datastore automatically generates it.
meal	String	The name of the meal
ateWithOthers	Boolean	Boolean to determine if the meal was eaten with others
drankLiquid	Boolean	Boolean to determine if liquid was consumed with the meal
wasHealthy	Boolean	Boolean to determine if the meal was healthy
wasTasty	Boolean	Boolean to determine if the meal was tasty
owner	String	The user who created, if JWT sent; otherwise null
foods	List	List that contains the foods associated to the meal
dates	List	List that contains the dates associated to the meal
calories	Integer	Sum of calories for all the foods associated
protein_g	Integer	Sum of proteins_g for all the foods associated
fats_g	Integer	Sum of fats_g for all the foods associated
carbohydrates_g	Integer	Sum of carbohydrates_g for all foods associated

Foods

Property	Data Type	Notes
id	Integer	The id of the boat. Datastore automatically generates it.
food	String	Name of the food
amount	Integer	Amount of food the user consumed
units	String	Units of the amount the user consumed [grams, and ounces ONLY]
owner	String	The user who created, if JWT sent; otherwise null
meals	List	List that contains the meals associated to the date
calories	Integer	Sum of calories for all the meals associated
protein_g	Integer	Sum of proteins_g for all the meals associated
fats_g	Integer	Sum of fats_g for all the meals associated
carbohydrates_g	Integer	Sum of carbohydrates_g for all the meals associated

Create a Date

Allows you to create a new date

POST /dates

Request

Path Parameters

None

Request Headers

Optional – 'Authentication'; Bearer token from account creation

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
month	The month of the date you want to create	Yes
day	The day of the date you want to create	Yes
year	The year of the date you want to create	Yes

Request Body Example

```
{  
  "month": 11,  
  "day": 15,  
  "year": 2021  
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	If the request is missing any of the required attributes, the date will not be created, and 400 status code will be returned.
Failure	401	Authentication sent wasn't valid
Failure	403 Not Authorized	Cannot add an ID
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

- Datastore will automatically generate an ID and store it with the entity being created. Your app must send back this value in the response body as shown in the example.
- The self attribute will contain the live link to the REST resource corresponding to this date. This is the URL to get this newly created date. You must not store the self attribute in Datastore

Success

Status: 201 Created

```
{
  "date": "11/15/21",
  "weekday": "Monday",
  "week": "46",
  "year": "2021",
  "day_number": "319",
  "meals": [],
  "calories": 0,
  "fats_g": 0,
  "carbohydrates_g": 0,
  "protein_g": 0,
  "owner": "auth0|61949d6ca9ee10007182278c",
  "id": 4834670923481088,
  "self": "https://fitnesstracker-332400.wl.r.appspot.com/dates/4834670923481088"
}
```

Failure

Status: 400 Bad Request

```
{"Error": "The request object is missing at least one of the required attributes"}
```

Failure

Status: 401 Invalid Request

```
{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}
{"Error": "Unable to parse authentication token."}
```

Failure

Status: 403 Not Authorized

```
{"Error": "No authority to change an ID"}
```

Failure

Status: 406 Bad MIME request

```
{"Error": "Client requested an unsupported MIME type"}
```

Create a Meal

Allows you to create a new meal.

POST /meals

Request

Path Parameters

None

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
meal	The name of the meal	Yes
ateWithOthers	Boolean to determine if the meal was eaten with others	Yes
drankLiquid	Boolean to determine if liquid was consumed with the meal	Yes
wasHealthy	Boolean to determine if the meal was healthy	Yes
wasTasty	Boolean to determine if the meal was tasty	Yes

Request Body Example

```
{
  "meal": "breakfast",
  "ateWithOthers": false,
  "drankLiquid": false,
  "wasTasty": true,
  "wasHealthy": true
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	If the request is missing any of the required attributes, the meal will not be created, and 400 status code will be returned.
Failure	401	Authentication sent wasn't valid
Failure	403 Not Authorized	Cannot add an ID
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

- Datastore will automatically generate an ID and store it with the entity being created. Your app must send back this value in the response body as shown in the example.
- The self attribute will contain the live link to the REST resource corresponding to this date. This is the URL to get this newly created date. You must not store the self attribute in Datastore

Success

```
Status: 201 Created
{
  "meal": "breakfast",
  "ateWithOthers": false,
  "drankLiquid": false,
  "wasTasty": true,
  "wasHealthy": true,
  "foods": [],
  "dates": [],
  "calories": 0,
  "fats_g": 0,
  "carbohydrates_g": 0,
  "protein_g": 0,
  "owner": "auth0|61949d6ca9ee10007182278c",
  "id": 6014404218847232,
  "self": "https://fitnesstracker-332400.wl.r.appspot.com/meals/6014404218847232"
}
```

Failure

```
Status: 400 Bad Request

{"Error": "The request object is missing at least one of the required attributes"}
```

Failure

```
Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}
{"Error": "Unable to parse authentication token."}
```

Failure

```
Status: 403 Not Authorized

{"Error": "No authority to change an ID"}
```

Failure

```
Status: 406 Bad MIME request

{"Error": "Client requested an unsupported MIME type"}
```

Create a Food

Allows you to create a new food.

POST /foods

Request

Path Parameters

None

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
name	The name of the boat.	Yes
food	Name of the food	Yes
amount	Amount of food the user consumed	Yes
units	Units of the amount the user consumed [grams, and ounces ONLY]	Yes

Request Body Example

```
{  
  "food": "chicken breast",  
  "amount": 250,  
  "units": "grams"  
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	If the request is missing any of the required attributes, the meal will not be created, and 400 status code will be returned.
Failure	401	Authentication sent wasn't valid
Failure	403 Not Authorized	Cannot add an ID
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

- Datastore will automatically generate an ID and store it with the entity being created. Your app must send back this value in the response body as shown in the example.
- The self attribute will contain the live link to the REST resource corresponding to this date. This is the URL to get this newly created date. You must not store the self attribute in Datastore

Success

Status: 201 Created

```
{
  "food": "chicken breast",
  "amount": 250,
  "units": "grams",
  "meals": [],
  "calories": 415.6,
  "fats_g": 8.9,
  "carbohydrates_g": 0.0,
  "protein_g": 77.4,
  "owner": "auth0|61949d6ca9ee10007182278c",
  "id": 5184030945312768,
  "self": "https://fitnesstracker-332400.wl.r.appspot.com/foods/5184030945312768"
}
```

Failure

Status: 400 Bad Request

```
{"Error": "The request object is missing at least one of the required attributes"}
```

Failure

Status: 401 Invalid Request

```
{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}
```

```
{"Error": "Unable to parse authentication token."}
```

Failure

Status: 403 Not Authorized

```
{"Error": "No authority to change an ID"}
```

Failure

Status: 406 Bad MIME request

```
{"Error": "Client requested an unsupported MIME type"}
```

Get a Date

Allows you to get an existing date.

GET /dates/:date_id

Request

Path Parameters

Name	Description
date_id	ID of the date

Request Body

None

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Not Authorized	The date contains mismatching authentication
Failure	404 Not Found	No date with this date_id exists
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

Success – JSON example

```
Status: 200 OK
{
  "owner": "auth0|61949d6ca9ee10007182278c",
  "protein_g": 0,
  "calories": 0,
  "year": "2021",
  "day_number": "319",
  "meals": [],
  "carbohydrates_g": 0,
  "date": "11/15/21",
  "fats_g": 0,
  "week": "46",
  "weekday": "Monday",
  "id": 4834670923481088,
  "self": "https://fitnesstracker-332400.wl.r.appspot.com/dates/4834670923481088"
}
```

Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

{"Error": "The page or action you are trying to access cannot be performed without proper authentication"}

Failure

Status: 404 Not Found

{"Error": "No object with this id exists"}

Failure

Status: 406 Bad MIME request

{"Error": "Client requested an unsupported MIME type"}

Get a Meal

Allows you to get an existing date.

GET /meals/:meal_id

Request

Path Parameters

Name	Description
meal_id	ID of the meal

Request Body

None

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Not Authorized	The meal contains mismatching authentication
Failure	404 Not Found	No meal with this meal_id exists
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

Success – JSON example

```
Status: 200 OK
{
  "meal": "breakfast",
  "ateWithOthers": false,
  "drankLiquid": false,
  "wasTasty": true,
  "wasHealthy": true,
  "foods": [],
  "dates": [],
  "calories": 0,
  "fats_g": 0,
  "carbohydrates_g": 0,
  "protein_g": 0,
  "owner": "auth0|61949d6ca9ee10007182278c",
  "id": 6014404218847232,
  "self": "https://fitnesstracker-332400.wl.r.appspot.com/meals/6014404218847232"
}
```

Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

{"Error": "The page or action you are trying to access cannot be performed without proper authentication"}

Failure

Status: 404 Not Found

{"Error": "No object with this id exists"}

Failure

Status: 406 Bad MIME request

{"Error": "Client requested an unsupported MIME type"}

Get a Food

Allows you to get an existing date.

GET /foods/: food_id

Request

Path Parameters

Name	Description
food_id	ID of the food

Request Body

None

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Not Authorized	The food contains mismatching authentication
Failure	404 Not Found	No food with this food_id exists
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

Success – JSON example

```
Status: 200 OK
{
  "food": "chicken breast",
  "amount": 250,
  "units": "grams",
  "meals": [],
  "calories": 415.6,
  "fats_g": 8.9,
  "carbohydrates_g": 0.0,
  "protein_g": 77.4,
  "owner": "auth0|61949d6ca9ee10007182278c",
  "id": 5184030945312768,
  "self": "https://fitnesstracker-332400.wl.r.appspot.com/foods/5184030945312768"
}
```

Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

{"Error": "The page or action you are trying to access cannot be performed without proper authentication"}

Failure

Status: 404 Not Found

{"Error": "No object with this id exists"}

Failure

Status: 406 Bad MIME request

{"Error": "Client requested an unsupported MIME type"}

List all Dates

List all the dates.

GET /dates

Request

Path Parameters

Optional – offset and limit for pagination

Request Body

None

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Not Authorized	The date contains mismatching authentication
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

Success

Status: 200 OK

```
{
  "owner": "auth0|61949d6ca9ee10007182278c",
  "protein_g": 0,
  "calories": 0,
  "year": "2021",
  "day_number": "319",
  "meals": [],
  "carbohydrates_g": 0,
  "date": "11/15/21",
  "fats_g": 0,
  "week": "46",
  "weekday": "Monday",
  "id": 4834670923481088,
  "self": "https://fitnesstracker-332400.wl.r.appspot.com/dates/4834670923481088"
}
```


Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

Failure

Status: 406 Bad MIME request

{"Error": "Client requested an unsupported MIME type"}

List all Meals

List all the meals.

GET / meals

Request

Path Parameters

Optional – offset and limit for pagination

Request Body

None

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Not Authorized	The meal contains mismatching authentication
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

Success

```
Status: 200 OK
[[
  {
    "meal": "breakfast",
    "ateWithOthers": false,
    "drankLiquid": false,
    "wasTasty": true,
    "wasHealthy": true,
    "foods": [],
    "dates": [],
    "calories": 0,
    "fats_g": 0,
    "carbohydrates_g": 0,
    "protein_g": 0,
    "owner": "auth0|61949d6ca9ee10007182278c",
    "id": 6014404218847232,
    "self": "https://fitnesstracker-332400.wl.r.appspot.com/meals/6014404218847232"
  }
]]
```

Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

Failure

Status: 406 Bad MIME request

{"Error": "Client requested an unsupported MIME type"}

List all Foods

List all the dates.

GET /foods

Request

Path Parameters

Optional – offset and limit for pagination

Request Body

None

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Not Authorized	The food contains mismatching authentication
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

Success

Status: 200 OK

```
{
  "food": "chicken breast",
  "amount": 250,
  "units": "grams",
  "meals": [],
  "calories": 415.6,
  "fats_g": 8.9,
  "carbohydrates_g": 0.0,
  "protein_g": 77.4,
  "owner": "auth0|61949d6ca9ee10007182278c",
  "id": 5184030945312768,
  "self": "https://fitnesstracker-332400.wl.r.appspot.com/foods/5184030945312768"
}
```

Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

Failure

Status: 406 Bad MIME request

{"Error": "Client requested an unsupported MIME type"}

List all Users

List all the users.

GET /users

Request

Path Parameters

None

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	

Response Examples

Success

Status: 200 OK

```
[
  {
    "created_at": "2021-11-20T19:39:40.908Z",
    "email": "testing@123.com",
    "email_verified": false,
    "identities": [
      {
        "user_id": "61994efca9ee10007183c509",
        "provider": "auth0",
        "connection": "Username-Password-Authentication",
        "isSocial": false
      }
    ],
    "name": "testing@123.com",
    "nickname": "testing",
    "picture": "https://s.gravatar.com/avatar/7b640387ce36e7024e622e6830bfa30a?s=480&r=pg&d=https%3A%2F%2Fcdn.auth0.com%2Favatars%2Fte.png",
    "updated_at": "2021-11-20T20:35:36.502Z",
    "user_id": "auth0|61994efca9ee10007183c509",
    "last_login": "2021-11-20T20:35:36.502Z",
    "last_ip": "2600:1900:2000:64:400::f",
    "logins_count": 8
  }
]
```

Delete a Date

Allows you to delete a date.

DELETE /dates/:date_id

Request

Path Parameters

Name	Description
date_id	ID of the date

Request Body

None

Request Headers

Optional – 'Authentication'; Bearer token from account creation

Response

No body

Response Body Format

Success: No body

Failure: JSON

Note: Deleting a date will remove this date from any meals associated.

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	401 Not Authorized	The request contains mismatching authentication
Failure	404 Not Found	No date with this date_id exists

Response Examples

Success

Status: 204 No Content

Failure

Status: 401 Invalid Request

```
{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}
{"Error": "Unable to parse authentication token."}
{"Error": "The page or action you are trying to access cannot be performed without proper authentication"}
```

Failure

Status: 404 Not Found

```
{"Error": "No object with this id exists"}
```

Delete a Meal

Allows you to delete a meal.

DELETE /meals/:meal_id

Request

Path Parameters

Name	Description
meal_id	ID of the meal

Request Body

None

Request Headers

Optional – 'Authentication'; Bearer token from account creation

Response

No body

Response Body Format

Success: No body

Failure: JSON

Note: Deleting a meal will remove this meal from any dates or foods associated.

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	401 Not Authorized	The request contains mismatching authentication
Failure	404 Not Found	No meal with this meal_id exists

Response Examples

Success

Status: 204 No Content

Failure

Status: 401 Invalid Request

```
{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}
```

```
{"Error": "Unable to parse authentication token."}
```

```
{"Error": "The page or action you are trying to access cannot be performed without proper authentication"}
```

Failure

Status: 404 Not Found

```
{"Error": "No object with this id exists"}
```


Delete a Food

Allows you to delete a food.

DELETE /foods/:food_id

Request

Path Parameters

Name	Description
food_id	ID of the food

Request Body

None

Request Headers

Optional – 'Authentication'; Bearer token from account creation

Response

No body

Response Body Format

Success: No body

Failure: JSON

Note: Deleting a food will remove this food from any meals associated.

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	401 Not Authorized	The request contains mismatching authentication
Failure	404 Not Found	No food with this food_id exists

Response Examples

Success

Status: 204 No Content

Failure

Status: 401 Invalid Request

```
{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}
{"Error": "Unable to parse authentication token."}
{"Error": "The page or action you are trying to access cannot be performed without proper authentication"}
```

Failure

Status: 404 Not Found

```
{"Error": "No object with this id exists"}
```

Update a Date

Allows you to update a date

PUT /dates/:date_id

Request

Path Parameters

Name	Description
date_id	ID of the date

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
month	The month of the date you want to create	Yes
day	The day of the date you want to create	Yes
year	The year of the date you want to create	Yes

Request Body Example

```
{
  "month": 11,
  "day": 15,
  "year": 2021
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	400 Bad Request	If the request is missing any of the required attributes, the date will not be created, and 400 status code will be returned.
Failure	401	Authentication sent wasn't valid
Failure	403 Not Authorized	Cannot modify an ID
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

Success

Status: 204 No Content

Failure

Status: 400 Bad Request

{"Error": "The request object is missing at least one of the required attributes"}

Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

Failure

Status: 403 Not Authorized

{"Error": "No authority to change an ID"}

Failure

Status: 406 Bad MIME request

{"Error": "Client requested an unsupported MIME type"}

Update a Meal

Allows you to update a meal

PUT / meals/: meal_id

Request

Path Parameters

Name	Description
meal_id	ID of the meal

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
meal	The name of the meal	Yes
ateWithOthers	Boolean to determine if the meal was eaten with others	Yes
drankLiquid	Boolean to determine if liquid was consumed with the meal	Yes
wasHealthy	Boolean to determine if the meal was healthy	Yes
wasTasty	Boolean to determine if the meal was tasty	Yes

Request Body Example

```
{
  "meal": "breakfast",
  "ateWithOthers": false,
  "drankLiquid": false,
  "wasTasty": true,
  "wasHealthy": true
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	400 Bad Request	If the request is missing any of the required attributes, the date will not be created, and 400 status code will be returned.
Failure	401	Authentication sent wasn't valid
Failure	403 Not Authorized	Cannot modify an ID
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

Success

Status: 204 No Content

Failure

Status: 400 Bad Request

{"Error": "The request object is missing at least one of the required attributes"}

Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

Failure

Status: 403 Not Authorized

{"Error": "No authority to change an ID"}

Failure

Status: 406 Bad MIME request

{"Error": "Client requested an unsupported MIME type"}

Update a Food

Allows you to update a date

PUT /foods/:food_id

Request

Path Parameters

Name	Description
food_id	ID of the food

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
name	The name of the food.	Yes
food	Name of the food	Yes
amount	Amount of food the user consumed	Yes
units	Units of the amount the user consumed [grams, and ounces ONLY]	Yes

Request Body Example

```
{  
  "food": "chicken breast",  
  "amount": 250,  
  "units": "grams"  
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	400 Bad Request	If the request is missing any of the required attributes, the date will not be created, and 400 status code will be returned.
Failure	401	Authentication sent wasn't valid
Failure	403 Not Authorized	Cannot modify an ID
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Note: This transaction updates the calories, carbohydrates_g, fat_g, protein_g for the food, and anything related to the food. i.e. If a meal contains this food, the meal will be updated, and if a date contains that meal, it will also be updated.

Response Examples

Success

Status: 204 No Content

Failure

Status: 400 Bad Request

{"Error": "The request object is missing at least one of the required attributes"}

Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

Failure

Status: 403 Not Authorized

{"Error": "No authority to change an ID"}

Failure

Status: 406 Bad MIME request

{"Error": "Client requested an unsupported MIME type"}

Attach a food to a meal

Allows you to associate a food to a meal

PATCH /meals/:meal_id/:food_id

Request

Path Parameters

Name	Description
meal_id	ID of the meal
food_id	ID of the food

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Request Body

None

Request Body Format

JSON

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	401 Not Authorized / Invalid Request	Authentication sent wasn't valid or invalid authentication for the two associations

Note:

- Performing this patch will add the food_id to the meal, and the meal_id to the food. This transaction updates the calories, carbohydrates_g, fat_g, protein_g for the meal as well, and any dates that already have this meal associated to it.
- The same food can be added to the meal as many times as desired – and the food can only be added if you are the owner.

Response Examples

Success

Status: 204 No Content

Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

{"Error": "The page or action you are trying to access cannot be performed without proper authentication"}

Attach a meal to a date

Allows you to associate a meal to a date

PATCH /dates/:date_id/:meal_id

Request

Path Parameters

Name	Description
date_id	ID of the date
meal_id	ID of the meal

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Request Body

None

Request Body Format

JSON

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	401 Not Authorized / Invalid Request	Authentication sent wasn't valid or invalid authentication for the two associations

Note:

- Note: Performing this patch will add the meal_id to the date, and the date_id to the meal. This transaction updates the calories, carbohydrates_g, fat_g, protein_g for the date.
- The same meal can be added to the date as many times as desired – and the meal can only be added if you are the owner.

Response Examples

Success

Status: 204 No Content

Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

{"Error": "The page or action you are trying to access cannot be performed without proper authentication"}

Remove a food from a meal

Allows you to disassociate a food to a meal

DELETE /meals/:meal_id/:food_id

Request

Path Parameters

Name	Description
meal_id	ID of the meal
food_id	ID of the food

Request Headers

Optional – 'Authentication'; Bearer token from account creation

Request Body

None

Request Body Format

JSON

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	401 Not Authorized / Invalid Request	Authentication sent wasn't valid or invalid authentication for the two associations
Failure	404 Not Found	The two ids aren't related

Note:

- Performing this patch will remove the food_id from the meal, and the meal_id from the food. This transaction updates the calories, carbohydrates_g, fat_g, protein_g for the meal as well, and any dates that already have this meal associated to it.

Response Examples

Success

Status: 204 No Content

Failure

Status: 401 Invalid Request

```
{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}
{"Error": "Unable to parse authentication token."}
{"Error": "The page or action you are trying to access cannot be performed without proper authentication"}
```

Failure

Status: 404 Not Found

```
{"Error": "These two objects aren't associated with one another"}
```

Remove a meal from a date

Allows you to disassociate a meal to a date

DELETE /dates/:date_id/:meal_id

Request

Path Parameters

Name	Description
date_id	ID of the date
meal_id	ID of the meal

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Request Body

None

Request Body Format

JSON

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	401 Not Authorized / Invalid Request	Authentication sent wasn't valid or invalid authentication for the two associations
Failure	404 Not Found	The two ids aren't related

Note:

- Performing this patch will remove the meal_id from the date, and the date_id from the meal. This transaction updates the calories, carbohydrates_g, fat_g, protein_g for the date.

Response Examples

Success

Status: 204 No Content

Failure

Status: 401 Invalid Request

```
{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}
{"Error": "Unable to parse authentication token."}
{"Error": "The page or action you are trying to access cannot be performed without proper authentication"}
```

Failure

Status: 404 Not Found

```
{"Error": "These two objects aren't associated with one another"}
```

Get the meals related to a specific food

Allows you to get all the meals related to a specific food.

GET /foods/:food_id/meals

Request

Path Parameters

Name	Description
food_id	ID of the food

Request Body

None

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Not Authorized	The food contains mismatching authentication
Failure	404 Not Found	No food with this food_id exists
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

Success – JSON example

Status: 200 OK

```
{
  "meals": [
    {
      "id": 5657818854064128,
      "self": "https://fitnesstracker-332400.wl.r.appspot.com/meals/5657818854064128"
    }
  ]
}
```

Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

{"Error": "The page or action you are trying to access cannot be performed without proper authentication"}

Failure

Status: 404 Not Found

{"Error": "No object with this id exists"}

Failure

Status: 406 Bad MIME request

{"Error": "Client requested an unsupported MIME type"}

Get the foods related to a specific meal

Allows you to get all the foods related to a specific meal

GET /meals/:meal_id/foods

Request

Path Parameters

Name	Description
meal_id	ID of the meal

Request Body

None

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Not Authorized	The meal contains mismatching authentication
Failure	404 Not Found	No meal with this meal_id exists
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

Success – JSON example

Status: 200 OK

```
{
  "foods": [
    {
      "id": 5657818854064128,
      "self": "https://fitnesstracker-332400.wl.r.appspot.com/foods/5657818854064128"
    }
  ]
}
```

Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

{"Error": "The page or action you are trying to access cannot be performed without proper authentication"}

Failure

Status: 404 Not Found

{"Error": "No object with this id exists"}

Failure

Status: 406 Bad MIME request

{"Error": "Client requested an unsupported MIME type"}

Get the dates related to a specific meal

Allows you to get all the dates related to a specific meal.

GET /meals/:meal_id/dates

Request

Path Parameters

Name	Description
meal_id	ID of the meal

Request Body

None

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Not Authorized	The meal contains mismatching authentication
Failure	404 Not Found	No meal with this meal_id exists
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

Success – JSON example

```
Status: 200 OK
{
  "dates": [
    {
      "id": 5657818854064128,
      "self": "https://fitnesstracker-332400.wl.r.appspot.com/dates/5657818854064128"
    }
  ]
}
```


Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

{"Error": "The page or action you are trying to access cannot be performed without proper authentication"}

Failure

Status: 404 Not Found

{"Error": "No object with this id exists"}

Failure

Status: 406 Bad MIME request

{"Error": "Client requested an unsupported MIME type"}

Get the meals related to a specific date

Allows you to get all the meals related to a specific food.

GET /dates/:date_id/meals

Request

Path Parameters

Name	Description
date_id	ID of the date

Request Body

None

Request Headers

Optional – ‘Authentication’; Bearer token from account creation

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Not Authorized	The date contains mismatching authentication
Failure	404 Not Found	No date with this date_id exists
Failure	406 Bad MIME request	Client sent a request for an unsupported MIME

Response Examples

Success – JSON example

```
Status: 200 OK
{
  "meals": [
    {
      "id": 5657818854064128,
      "self": "https://fitnesstracker-332400.wl.r.appspot.com/meals/5657818854064128"
    }
  ]
}
```

Failure

Status: 401 Invalid Request

{"Error": "Invalid header. Use an RS256 signed JWT Access Token"}

{"Error": "Unable to parse authentication token."}

{"Error": "The page or action you are trying to access cannot be performed without proper authentication"}

Failure

Status: 404 Not Found

{"Error": "No object with this id exists"}

Failure

Status: 406 Bad MIME request

{"Error": "Client requested an unsupported MIME type"}