Overview: This document will define a high-level api specification with a list of endpoints, their functions, and the data models associated with them.

Endpoints

GET /auth
Returns an authorization token as json
Example Response Body: {"token": "uuid-string"}
Response Codes:
200 OK

GET /products
Returns a list of **Product** objects as json and the count of products in the list
Example Response Body:

```
"products":    [
                    {
                            "id":  "foo",
                            …
                            "is_available":  true
                    },
                    {
                            "id":  "bar",
                            …
                            "is_available":  false
                    }
            ],
"count":        2
```

Response codes:
200 OK
400 Bad Request (invalid query params)

GET /product/{product_id}
Path param: product_id
Returns a **Product** object as json
Example Response Body:

```
{
        "id":  "foobarbizbazz9999",
        "name":  "banana",
        "price":  0.99,
        "category":  "fruit",
        "is_available":  true
}
```

Response Codes:
200 OK for valid request (valid id)

400 Bad Request (no id supplied)
404 Not Found (invalid id)

All below endpoints require a valid authorization token.

DELETE /auth
Destroys supplied token (header) ending cart session
Response Codes:
204 No Content
401 Unauthorized (missing or invalid token)

GET /cart
Returns a list of CartItems (omitting cart_id and joined with product name and price) and cart total as json
Example Response Body:


```
"items":        [
                {
                        "product_id":  "foo",
                        "name":  "banana",
                        "price":  0.99
                        "quantity":  3
                },
                {
                        "product_id":  "bar",
                        "name":  "milk",
                        "price":  3.99
                        "quantity":  1
                },
        ],
"total":  6.94
```


Response Codes:
200 OK
401 Unauthorized (invalid token)

PATCH /cart
Updates cart items and quantities and returns same json representation as GET /cart
Example Request Body:


```
"products":  [
                {
                        "product_id":  "foo",
                        "quantity":  5
                },
                {
                        "product_id":  "bar",
                        "quantity":  0
```

```
                },
            ]
```

Response Codes:
200 OK
400 Bad Request
401 Unauthorized (invalid token)
404 Not Found (invalid product id)

POST /cart/clear
Empties the cart contents and returns same json representation as GET /cart
Response Codes:
201 Created
401 Unauthorized (invalid token)

Data Model (**DB)**

Product
id: uuid string
name: string
price: float
category: string
is_available: bool

CartItem
product_id: uuid string - foreign key
cart_id: uuid string - foreign key
quantity: integer

Cart
id: uuid string
cart_items: List of CartItems