

# Andrew Hall Shopify Developer Challenge 2019 Submission

## Storefront API

The web API was designed for the Shopify 2019 developer challenge. It has a series of functions that allows it to emulate the basics of an online storefront. This document will describe how to use all these different functions.

### What you need to use to test the API

- A program to send the API JSON's, a great example and the one used in the API's development was postman.
- The website is hosted at <https://shrouded-citadel-54192.herokuapp.com>

### How the storefront works

The storefront allows a user to control the number of products the storefront has

## Managing the Products of The Store

This section provides details on how to manage the products that are available on the storefront. They can create, remove, and update the products available. The user can also create a cart. This cart can have products loaded into it which can be purchased which will give the final price of all the items.

### Adding a product

You will need send a json with a name, price and the amount available in the format below.

The screenshot shows a REST client interface with the URL `https://shrouded-citadel-54192.herokuapp.com/products` and the method `POST`. The request body is a JSON object:

```
1 { "product":  
2   {  
3     "name": "name",  
4     "price": 2,  
5     "inventory_count": 20  
6   }  
7 }
```

### Getting a list of all products

You simply need to make a get request from the given URL

The screenshot shows a REST client interface with the URL `https://shrouded-citadel-54192.herokuapp.com/products` and the method `GET`.

If you only want a list of the products that have available inventory you simply have to pass a json with the parameter select which contains the value of 1.

```
1 {  
2   "select": 1  
3 }
```

## Getting a specific product

Input the following URL with a json containing the name of the given product

The screenshot shows a REST client interface with the following details:

- URL:** `https://shrouded-citadel-54192.herokuapp.com/products/0`
- Method:** GET
- Body:** A JSON object with the key "name" and the value "name".

```
1 {  
2   "name": "name"  
3 }
```
- Headers:** One header is listed: `x-www-form-urlencoded`.
- Buttons:** "Send" (blue), "Save" (grey), and "Beautify" (orange).

## Purchasing a product

By purchasing a product, you decrease the inventory count by 1. To do this enter in the following URL and a json with the following parameters.

The screenshot shows a REST client interface with the following details:

- URL:** `https://shrouded-citadel-54192.herokuapp.com/products/purchase`
- Method:** GET
- Body:** A JSON object with the key "name" and the value "name".

```
1 {  
2   "name": "name"  
3 }
```
- Headers:** One header is listed: `x-www-form-urlencoded`.
- Buttons:** "Send" (blue), "Save" (grey), and "Beautify" (orange).

## Changing the inventory of a product

You can change the inventory of the product by inputting the following url along with a json containing the following parameters.

A screenshot of a REST client interface. The top bar shows a PATCH request to `https://shrouded-citadel-54192.herokuapp.com/products/0`. Below the bar, the 'Body' tab is selected, showing a JSON object: `{ "name": "name", "count": 20 }`. The interface includes tabs for Params, Authorization, Headers (1), Body, Pre-request Script, and Tests. On the right, there are buttons for Send, Save, Cookies, Code, and Comments (0). A 'Beautify' button is also present.

## Managing the carts

This section provided info on the commands used to manage the carts.

### Creating a new cart

You can add a new cart by entering the following URL as well as a name for the cart.

A screenshot of a REST client interface. The top bar shows a POST request to `https://shrouded-citadel-54192.herokuapp.com/carts`. Below the bar, the 'Body' tab is selected, showing a JSON object: `{ "name": "cart" }`. The interface includes tabs for Params, Authorization, Headers (1), Body, Pre-request Script, and Tests. On the right, there are buttons for Send, Save, Cookies, Code, and Comments (0). A 'Beautify' button is also present.

### Getting a list of all carts

You can get a list of all the carts created by entering the following URL

A screenshot of a REST client interface. The top bar shows a GET request to `https://shrouded-citadel-54192.herokuapp.com/carts`. Below the bar, the 'Body' tab is selected, which is empty. The interface includes tabs for Params, Authorization, Headers (1), Body, Pre-request Script, and Tests. On the right, there are buttons for Send, Save, Cookies, Code, and Comments (0). A 'Beautify' button is also present.

### Deleting a cart

You can delete a cart by entering the following URL and a the name of the cart

A screenshot of a REST client interface. The top bar shows a DELETE request to `https://shrouded-citadel-54192.herokuapp.com/carts/0`. Below the bar, the 'Body' tab is selected, which is empty. The interface includes tabs for Params, Authorization, Headers (1), Body, Pre-request Script, and Tests. On the right, there are buttons for Send, Save, Cookies, Code, and Comments (0). A 'Beautify' button is also present.

## Getting a list of products in the cart

You can get the info of a certain cart by entering the following URL and the name of the cart.

GET `https://shrouded-citadel-54192.herokuapp.com/carts/0` Send Save

Params Authorization Headers (1) Body Pre-request Script Tests Cookies Code Comments (0)

none form-data x-www-form-urlencoded raw binary JSON (application/json) Beautify

```
1 {
2   "name": "cart"
3 }
```

## Adding a product to the cart

You can add a product to the cart by entering the following URL and entering the names of both the cart and the product.

POST `https://shrouded-citadel-54192.herokuapp.com/carts/add` Send Save

Params Authorization Headers (1) Body Pre-request Script Tests Cookies Code Comments (0)

none form-data x-www-form-urlencoded raw binary JSON (application/json) Beautify

```
1 {
2   "name_product": "name",
3   "name_cart": "cart"
4 }
```

## Checking out the cart

To checkout the cart you enter the following URL and enter the name of the cart. This will give you the total price of all the items in the cart.

GET `https://shrouded-citadel-54192.herokuapp.com/carts/checkout` Send Save

Params Authorization Headers (1) Body Pre-request Script Tests Cookies Code Comments (0)

none form-data x-www-form-urlencoded raw binary JSON (application/json) Beautify

```
1 {
2   "name": "cart"
3 }
```

Body Cookies Headers (10) Test Results Status: 200 OK Time: 1398 ms Size: 367 B Download

Pretty Raw Preview JSON

```
1 {
2   "sum": 2
3 }
```