

# GetFit! API Documentation - Omar Badr

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## Overview of API routes

1. GET /api/v1/products
2. GET /api/v1/products/:id
3. POST /api/v1/products
4. GET /api/v1/sellers
5. GET /api/v1/sellers/:id
6. PATCH /api/v1/products/:id/buy

## Getting started guide

To start using the GetFit API, you need to be aware of the following:

- The API returns request responses in JSON format. When an API request returns an error, it is sent in the JSON response as an error key, with a status signifying its success/failure.
- No authorisation is required in this website :)

## Authentication

None used in this api and none required.

## Need some help?

email: `shkw25@durham.ac.uk`

In case you have questions, go through my video tutorial which has been posted on Panopto. Or email me via [shkw25@durham.ac.uk](mailto:shkw25@durham.ac.uk) as shown above :)

I have also included links to the different modules I have used within npm that have assisted with my project.

- <https://www.npmjs.com/package/express>
- <https://www.npmjs.com/package/supertest>
- <https://www.npmjs.com/package/jest>
- <https://www.npmjs.com/package/vitest>

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## GET Get all products

localhost:1230/api/v1/products

**Description:** Retrieve a comprehensive list of all sports products available on the website. This includes products from different manufacturers/sellers: Nike, Adidas, Puma and Gymshark.

**Response:** A successful GET response will have a `200 OK` status and returns a JSON object containing the list of sports products.

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## GET Get all products details with specific ID

localhost:1230/api/v1/products/580ab068-319b-4156-baca-31d02300266c

**Description:** Retrieve detailed information about a specific sports product by its ID. This includes product details such as title, price, rating, image URL, and stock count.

### Path Parameters:

- `id` (string): The unique identifier of the sports product.

### Response:

- `200 OK` : Returns a JSON object containing the product details.
- `404 Not Found` : If the product is not found.

Note: id of 580ab068-319b-4156-baca-31d02300266c was used for demonstrating purposes.

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## POST Create new product

localhost:1230/api/v1/products

**Description:** Add a new sports product to the website's inventory. This route allows the creation of new products with details such as title, price, rating, image URL, and stock count.

### Request Body:

- `title` (string): The title of the sports product.
- `price` (number): The price of the sports product.
- `rating` (number): The rating of the sports product.
- `image_url` (string): The URL of the sports product image.
- `stock_count` (number): The stock count of the sports product.

### Response:

- `201 Created` : Returns a JSON object containing the newly created sports product.

## Body raw (json)

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json

```
{
  "title": "TestShirt",
  "price": 100,
  "rating": 5,
  "image_url": "https://images-na.ssl-images-amazon.com/images/I/61pBJEYe2BL._AC_UL600_SR600",
  "stock_count": 0
  //will not include seller_id, size_options, description as this is just a testshirt
}
```

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## GET Get all sellers

localhost:1230/api/v1/sellers

**Description:** Retrieve a list of all sellers registered on the website. This includes details about each seller and their associated sports products.

### Response:

- `200 OK` : Returns a JSON object containing the list of sellers.

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## GET Get all details for a seller

localhost:1230/api/v1/sellers/5dabc42c-9826-4f2a-9396-17cdcf2afa25

**Description:** Retrieve detailed information about a specific seller by their ID, including their specific details and the sports products they sell.

### Path Parameters:

- `id` (string): The unique identifier of the seller.

### Response:

- `200 OK` : Returns a JSON object containing the seller details and their products.
- `404 Not Found` : If the seller is not found.

Note: id of 5dabc42c-9826-4f2a-9396-17cdcf2afa25 was used for demonstrating purposes.

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## **PATCH** Purchase stock of a product

localhost:1230/api/v1/products/580ab068-319b-4156-baca-31d02300266c/buy

**Description:** Purchase a specified quantity of a sports product. This route updates the stock count of the product based on the quantity purchased.

### **Path Parameters:**

- `id` (string): The unique identifier of the sports product.

### **Request Body:**

- `quantity` (number, optional): The quantity of the sports product to buy. Defaults to 1 if not specified.

### **Response:**

- `200 OK` : Returns a JSON object containing the updated product details.
- `400 Bad Request` : If the requested quantity exceeds the stock count or if the product is out of stock.
- `404 Not Found` : If the product is not found.

Note: id of 580ab068-319b-4156-baca-31d02300266c was used for demonstrating purposes.