API Endpoint: Update Product

Endpoint Details

- **URL:** http://localhost:5000/api/product/<pid>
- **Method:** PATCH
- **Description:** This endpoint updates a product. All fields are optional and can be provided depending on what needs to be updated. Authentication is required.

Request Parameters

Parameter	Type	Required	Description
name	string	No	Name of the product
sku	string	No	SKU (Stock Keeping Unit) of the product
category	string	No	Category of the product
backroom_quantity	int	No	Quantity of the product in the backroom
shelf_quantity	int	No	Quantity of the product on the shelf
price	float	No	Price of the product
description	string	No	Description of the product

image	file	No	Image of the product

Request Headers

- **Cookie:** `token=<authentication_token>`

Test Cases

1. Successful Product Update

- **Description:** Verify that the product is successfully updated with valid parameters and authentication.
- **Input:**
  - URL:
    `http://localhost:5000/api/product/<valid_product_id>`
  - **Headers:**
    - Cookie: `token=<valid_token>`

Body:
json

```
{

  "name": "Updated Product",

  "price": 25.99

}
```

  -
- **Expected Response:**
  - **Status Code:** 200 OK
  - **Body:** JSON object containing the updated product details

2. Invalid Product ID

- **Description:** Verify that the API returns an error when an invalid product ID is provided.
- **Input:**

- ○ URL:
  `http://localhost:5000/api/product/<invalid_product_id>`
  - ○ **Headers:**
    - ■ Cookie: `token=<valid_token>`

Body:
json

```
{

  "name": "Updated Product",

  "price": 25.99

}
```

  - ○
- ● **Expected Response:**
  - ○ **Status Code:** 404 Not Found
  - ○ **Body:** JSON object containing an error message (e.g., `{ "error": "Product not found" }`)

3. User Not Authenticated

- ● **Description:** Verify that the API returns an error when the user is not authenticated or the authentication token is missing/invalid.
- ● **Input:**
  - ○ URL:
    `http://localhost:5000/api/product/<valid_product_id>`
  - ○ **Headers:**
    - ■ Cookie: `token=<invalid_or_missing_token>`

Body:
json

```
{

  "name": "Updated Product",

  "price": 25.99
```

```
}
```

- ○

- **Expected Response:**
  - ○ **Status Code:** 401 Unauthorized
  - ○ **Body:** JSON object containing an error message (e.g., `{ "error": "Not authorized" }`)

Test Results

Test Case	Status	Response Code	Response Body	Remarks
Successful Product Update	Pass	200	JSON object with updated product details	Product updated successfully
Invalid Product ID	Pass	404	{ "error": "Product not found" }	Appropriate error message shown
User Not Authenticated	Pass	401	{ "error": "Not authorized" }	Appropriate error message shown