API Endpoint: Delete Single Product

Endpoint Details

- **URL:** `http://localhost:5000/api/product/<p_id>`
- **Method:** DELETE
- **Description:** This endpoint deletes a single product based on its ID and requires the user to be authenticated.

Request Parameters

Parameter	Type	Required	Description
p_id	string	Yes	Product ID

Request Headers

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

Test Cases

1. Successful Deletion of Product

- **Description:** Verify that the product is successfully deleted with a valid product ID and authenticated user.
- **Input:**
  - URL: `http://localhost:5000/api/product/<valid_product_id>`
  - **Headers:**
    - Cookie: `token=<valid_token>`
- **Expected Response:**
  - **Status Code:** 200 OK
  - **Body:** JSON object containing a success message (e.g., `{ "message": "Product deleted successfully" }`)

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>`
- ● **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>`
- ● **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 Deletion of Product	Pass	200	{ "message": "Product deleted successfully" }	Product deleted 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