API Documentation

**1. Get Product Data**

* Endpoint: /getproducts
* Method: GET
* Description: Retrieve a list of all products.
* Response:
* 201: Success
* Content: List of products

**2. Get Individual Product Data**

* Endpoint: /getproductsone/{id}
* Method: GET
* Description: Retrieve details of a specific product.
* Parameters:
* {id}: Product ID
* Response:
* 201: Success
* Content: Details of the individual product

**3. Register User**

* Endpoint: /register
* Method: POST
* Description: Register a new user.
* Request Body:
* fname: First name
* email: Email
* mobile: Mobile number
* password: Password
* cpassword: Confirm password
* Response:
* 201: Success
* Content: Registered user details

**4. Login User**

* Endpoint: /login
* Method: POST
* Description: Log in an existing user.
* Request Body:
* email: Email
* password: Password
* Response:
* 201: Success
* Content: User details and authentication token

**5. Add Item to User Cart**

* Endpoint: /addcart/{id}
* Method: POST
* Description: Add a product to the user's shopping cart.
* Parameters:
* {id}: Product ID
* Authorization: Bearer Token
* Response:
* 201: Success
* Content: Updated user details with the added item

**6. Get User Cart Details**

* Endpoint: /cartdetails
* Method: GET
* Description: Retrieve details of the user's shopping cart.
* Authorization: Bearer Token
* Response:
* 201: Success
* Content: User's cart details

**7. Get Valid User**

* Endpoint: /validuser
* Method: GET
* Description: Retrieve details of the authenticated user.
* Authorization: Bearer Token
* Response:
* 201: Success
* Content: Valid user details

**8. Remove Item from User Cart**

* Endpoint: /remove/{id}
* Method: GET
* Description: Remove an item from the user's shopping cart.
* Parameters:
* {id}: Product ID
* Authorization: Bearer Token
* Response:
* 201: Success
* Content: Updated user details after item removal

**9. User Logout**

* Endpoint: /logout
* Method: GET
* Description: Log out the authenticated user.
* Authorization: Bearer Token
* Response:
* 201: Success
* Content: Updated user details after logout
* **Rate Limiting**
* Implement rate limiting to prevent abuse and maintain server stability. This can be achieved using middleware or external services.