Black Box API - URI Documentation (CRUD + Functional)

Instructions:

➔ Please for the queries use this formula
https://awd-22406-team-3-syntax-squad.onrender.com/blakbox/someURI
➔ Notice that we used mongo Ids, so you have to connect to the cluster
➔ Create a .env document in the folder /backend and put this there

```
MONGO_URI=mongodb+srv://dcguerra2:krAo71GdigqEJVga@cluster0.sj
oneoa.mongodb.net/blakboxdb?retryWrites=true&w=majority
PORT=3007
```

CRUD URIs

1. Get All Products

- **HTTP Method:** GET

- **URI:** /blakbox/products

- **Description:** Retrieves a list of all products.

- **Request Parameters:** None

- **JSON Response**

```
[
    {
        "discount": "0%",
        "features": [],
        "sales": 0,
        "_id": "685dcf02a316e65d3eea76e3",
        "name": "Sapphire 6660XT 8GB DDR6",
        "description": "Very powerful graphics card with
8GB of RAM",
        "brand": "AMD RADEON",
        "price": 250.6,
        "stock": 10,
        "categoryId": {
            "_id": "68672d6b8a254b8b7d39652b",
```

```json
            "categoryName": "Graphics Cards"
        },
        "__v": 0,
        "ratings": []
    },
    {
        "discount": "0%",
        "features": [],
        "sales": 0,
        "_id": "685cc96e01f2c068f203cdac",
        "name": "Gaming Mouse",
        "description": "RGB high precision mouse",
        "brand": "Logitech",
        "price": 49.99,
        "stock": 30,
        "categoryId": {
            "_id": "68672d648a254b8b7d396529",
            "categoryName": "Components"
        },
        "__v": 0,
        "ratings": []
    }
]
```

- **Status:** 200 OK
- **Json file:** Returns list of products

---

2. Get Product by ID

- **HTTP Method:** GET

- **URI:** /blakbox/products/:productId

- **Description:** Retrieves details of a specific product.

- **Request Parameters:** id of the product

- **JSON Response:**

```json
{"id": 1, "name": "Gaming Mouse", "price": 49.99, "stock": 20}
```

- **Status:** 200 OK
- **Json file:** Returns product details

---

3. Create New Product

- **HTTP Method:** POST

- **URI:** /blakbox/products

- **Description:** Creates a new product entry.

- **Request Parameters:**

{"name": "Gaming Headset", "price": 59.99, "category":
   "68672d648a254b8b7d396529", "stock": 50}

- **JSON Response:**

{"message": "Product created successfully"}

- **Status:** 201 Created
- **Json file:** Confirmation message

---

4. Update Product

- **HTTP Method:** PUT

- **URI:** /blakbox/products/:productId

- **Description:** Updates product information.

- **Request Parameters:**

  {"name": "USB HUB", "price": 19.5}

- **JSON Response:**
  {
      "message": "Product 'USB HUB' updated successfully.",

```
        "product": {
            "discount": "0%",
            "features": [],
            "sales": 0,
            "_id": "688bc3a6e240f807107b123b",
            "name": "USB HUB",
            "description": "4-port USB 3.0 hub with power
switch",
            "brand": "Anker",
            "price": 19.5,
            "stock": 1,
            "categoryId": "688bc3a6e240f807107b1002",
            "ratings": []
        }
    }
```

- **Status:** 200 OK

- **Json file:** Updated product

---

5. Delete Product

- **HTTP Method:** DELETE

- **URI:** /blakbox/products/:productId

- **Description:** Deletes a product.

- **Request Parameters:** productId - ID of the product

- **JSON Response:**

{message: 'Product deleted successfully' }

- **Status:** 200 OK

- **Json file:** No content

---

6. Get All Categories

- **HTTP Method:** GET

- **URI:** `/blakbox/categories`

- **Description:** Retrieves all product categories.

- **Request Parameters:** None

- **JSON Response:**

`["Audio", "Computers", "Accessories"]`

- **Status:** 200 OK
- **Json file:** Returns categories list

---

7. Create New Category

- **HTTP Method:** POST

- **URI:** `/blakbox/categories`

- **Description:** Adds a new category.

- **Request Parameters:**

`{"name": "Networking"}`

- **JSON Response:**

`{"message": "Category created successfully"}`

- **Status:** 201 Created
- **Json file:** Confirmation message

---

8. Get All Brands

- **HTTP Method:** GET

- **URI:** `/blakbox/brands`

- **Description:** Retrieves a list of all brands.

- **Request Parameters:** None

- **JSON Response:**

```
["Logitech", "HyperX", "Razer"]
```

- **Status:** 200 OK
- **Json file:** List of brands

---

9. Create New Brand

- **HTTP Method:** POST

- **URI:** /blakbox/brands

- **Description:** Creates a new brand.

- **Request Parameters:**

```
{"name": "Corsair"}
```

- **JSON Response:**

```
{"message": "Brand added"}
```

- **Status:** 201 Created
- **Json file:** Confirmation message

---

10. Update Category

- **HTTP Method:** PUT

- **URI:** /blakbox/categories/:id

- **Description:** Updates a category by ID.

- **Request Parameters:**

```
{"name": "Computer Accessories"}
```

- **JSON Response:** None

- **Status:** 204 No Content

- **Json file:** No content

---

11. Get All Users

- **HTTP Method:** GET

- **URI:** `/blakbox/users`

- **Description:** Retrieves all registered users.

- **Request Parameters:** None

- **JSON Response:**

```
[

 {"userId": 1, "firstName": "Juan", "lastName":"Pérez",
"email": "juan@example.com", "password": "Juan123",
"userType":"customer", "phoneNumber": "0987858623"},

 {"userId": 2, "firstName": "Ana", "lastName":"López", "
"email": "ana@example.com", "password": "Ana123",
"userType":"user", "phoneNumber": "0986523915" }

]
```

- **Status:** 200 OK
- **Json file:** List of users

---

12. Get User by ID

- **HTTP Method:** GET

- **URI:** `/blakbox/users/:id`

- **Description:** Retrieves a user's details by ID.

- **Request Parameters:** User ID

- **JSON Response:**

```
{"userId": 1, "firstName": "Juan", "lastName":"Pérez",
    "email": "juan@example.com", "password": "Juan123",
    "userType":"user", "phoneNumber": "0987858623"}
```

- **Status:** 200 OK
- **Json file:** User data

---

13. Create New User

- **HTTP Method:** POST

- **URI:** `/blakbox/users`

- **Description:** Registers a new user.

- **Request Parameters:**

```
{
  "firstName": "Luis",
  "lastName": "Monteros",
  "email": "luis.monteros@email.com",
  "password": "Luis123",
  "userType": "customer",
  "phoneNumber": "0987625396"
}
```

- **JSON Response:**

```
{
```

```
            "message": "User created successfully",
            "user": {
                "firstName": "Luis",
                "lastName": "Monteros",
                "email": "luis.monteros@email.com",
                "password": "Luis123",
                "userType": "customer",
                "phoneNumber": "0987625396",
                "_id": "686760e70e605c27235bfcf9",
                "__v": 0
            }
        }
```

- **Status:** 201 Created
- **Json file:** New User

---

14. Update User

- **HTTP Method:** PUT

- **URI:** `/blakbox/users/:id`

- **Description:** Updates user profile details.

- **Request Parameters:**

```
{

"firstName": "Laura",

"lastName": "Vega"

}
```

- **JSON Response:**

```
{

    "_id": "686417de6631b66999bd5f86",
```

```
    "firstName": "Laura",

    "lastName": "Vega",

    "email": "laura@example.com",

    "password": "securePass123",

    "userType": "customer",

    "phoneNumber": "0658492123",

    "__v": 0

}
```

- **Status:** 200 OK

- **Json file:** Updated User

---

15. Delete User

- **HTTP Method:** DELETE

- **URI:** /blakbox/users/:id

- **Description:** Deletes a user account.

- **Request Parameters:** User ID

- **JSON Response:**

{ "message": "User deleted successfully."}

- **Status:** 204 No Content

- **Json file:** No content

---

16. Create New Order

- **HTTP Method:** POST

- **URI:** /blakbox/orders

- **Description:** Places a new order.

- **Request Parameters:**

{"userId": 1, "orderDate": 05/06/2025, "total": 125.00,
   "status":"pending"}

- **JSON Response:**

{

"message": "Order created successfully"

order: {"orderId": 686207551735fa68f4ffd32d, "userId":
685bb91a0eeff8b08e0e130b, "orderDate": "05/06/2025", "total":
125.00, "status":"pending"}

}

- **Status:** 201 Created
- **Json file:** New Order

---

17. Get Order by ID

- **HTTP Method:** GET

- **URI:** /blakbox/orders/:id

- **Description:** Retrieves order details.

- **Request Parameters:** Order ID

- **JSON Response:**

```json
{"orderId": 5, "total": 129.99, "status": "Processing"}
```

- **Status:** 200 OK
- **Json file:** Order details

---

18. Delete Order

- **HTTP Method:** DELETE

- **URI:** /blakbox/orders/:orderId

- **Description:** Deletes an order permanently.

- **Request Parameters:** Order ID

- **JSON Response:**

```json
{message: "Order deleted successfully"}
```

- **Status:** 204 No Content

- **Json file:** No content

---

19. Get All Payments

- **HTTP Method:** GET

- **URI:** /blakbox/payments

- **Description:** Lists all payment records.

- **Request Parameters:** None

- **JSON Response:**

```json
[
    {
        "_id": "68620d14c4df34943ef7ce53",
        "userId": "685bb91a0eeff8b08e0e130b",
```

```json
        "orderId": "6881e4f59b7c221cadc41301",
        "amount": 89.99,
        "paymentMethod": "bank_transfer",
        "paymentDate": "2025-06-25T10:45:00.000Z",
        "status": "pending",
        "__v": 0
    },
    {

        "_id": "68620d78c4df34943ef7ce55",
        "userId": "685bb91a0eeff8b08e0e130a",
        "orderId": "6881e4f59b7c221cadc41302",
        "amount": 149.5,
        "paymentMethod": "credit_card",
        "paymentDate": "2025-06-20T15:00:00.000Z",
        "status": "confirmed",
        "transactionId": "TRX-B9G4Q",
        "__v": 0
    },
    {

        "_id": "68620d8bc4df34943ef7ce57",
        "userId": "68616dc37c1eac9cf89948e5",
        "orderId": "6881e4f59b7c221cadc41303",
        "amount": 59,
        "paymentMethod": "debit_card",
        "paymentDate": "2025-06-18T10:00:00.000Z",
        "status": "confirmed",
        "transactionId": "TRX-C7M1Z",
        "__v": 0
    },
    {

        "_id": "68620d9ec4df34943ef7ce59",
        "userId": "685bb91a0eeff8b08e0e130b",
        "orderId": "6881e4f59b7c221cadc41304",
        "amount": 129.99,
        "paymentMethod": "bank_transfer",
        "paymentDate": "2025-06-10T18:10:00.000Z",
        "status": "confirmed",
        "__v": 0
    },
    {

        "_id": "68620dffc4df34943ef7ce61",
```

```
            "userId": "68616dc37c1eac9cf89948e5",
            "orderId": "6881e4f59b7c221cadc41305",
            "amount": 249.75,
            "paymentMethod": "credit_card",
            "paymentDate": "2025-06-01T12:40:00.000Z",
            "status": "refunded",
            "transactionId": "TRX-E3P7T",
            "__v": 0
        },
        {

            "_id": "68620e62c4df34943ef7ce66",
            "userId": "68616dc37c1eac9cf89948e5",
            "orderId": "6881e4f59b7c221cadc41306",
            "amount": 39.9,
            "paymentMethod": "paypal",
            "paymentDate": "2025-06-27T09:20:00.000Z",
            "status": "failed",
            "transactionId": "TRX-F6L2K",
            "__v": 0
        },
        {

            "_id": "68641c40d29f3668d4bab748",
            "userId": "68616dc37c1eac9cf89948e5",
            "orderId": "6862076f1735fa68f4ffd32f",
            "amount": 129.99,
            "paymentMethod": "credit_card",
            "paymentDate": "2025-06-20T15:00:00.000Z",
            "status": "confirmed",
            "__v": 0
        }
    ]
```

- **Status:** 200 OK
- **Json file:** Payment list

---

20. Create New Payment

- **HTTP Method:** POST

- **URI:** `/blakbox/payments`

- **Description:** Adds a new payment entry.

- **Request Parameters:**

```
{  "userId": "68616dc37c1eac9cf89948e5",  "orderId":
   "6862076f1735fa68f4ffd32f",  "amount": 129.99,
   "paymentMethod": "credit_card",  "paymentDate":
   "2025-06-20T15:00:00.000+00:00", "status": "confirmed"}
```

- **JSON Response:**

```
{"message": "Payment created successfully", payment: {
   "userId": "68616dc37c1eac9cf89948e5",  "orderId":
   "6862076f1735fa68f4ffd32f",  "amount": 129.99,
   "paymentMethod": "credit_card",  "paymentDate":
   "2025-06-20T15:00:00.000+00:00", "status": "confirmed"}}
```

- **Status:** 201 Created
- **Json file:** Confirmation

---

21. Get All Wishlists

- **HTTP Method:** GET

- **URI:** `/blakbox/wishlists`

- **Description:** Retrieves all wishlists.

- **Request Parameters:** None

- **JSON Response:**

```
[

{ "_id": "68625eb1ea213c0029366886", "userId": { "_id":
"68616dc37c1eac9cf89948e5",
```

"firstName": "Aria",

"lastName": "Stark",

"email":
"aria.stark@email.com"},

"createdDate": "2025-06-30T09:53:53.735Z", "__v": 0 },

{ "_id": "68625ea5ea213c0029366884", "userId": { "_id":
"685bb91a0eeff8b08e0e130b",

"firstName": "Diana",

"lastName": "Guerra",

"email":
"diana.guerra.03@outlook.com"}
,

"createdDate": "2025-06-30T09:53:41.015Z", "__v": 0 },

]

- **Status:** 200 OK

- **Json file:** List of wishlists

---

22. Get Wishlist by ID

- **HTTP Method:** GET

- **URI:** /blakbox/wishlists/:id

- **Description:** Retrieves details of a specific wishlist.

- **Request Parameters:** id of the wishlist(_id)

- **JSON Response:**

{ "_id": "68625eb1ea213c0029366886", "userId": { "_id":

"68616dc37c1eac9cf89948e5", "firstName": "Aria", "lastName":

"Stark", "email": "aria.stark@email.com"},

```
"createdDate": "2025-06-30T09:53:53.735Z", "__v": 0 }
```

- **Status:** 200 OK

- **Json file:** Wishlist details

---

23. Create New Wishlist

- **HTTP Method:** POST

- **URI:** `/blakbox/wishlists`

- **Description**: Creates a new wishlist.

- **Request Parameters:**

```
{ "userId": "685bb91a0eeff8b08e0e130a", "createDate":

    "2024-04-22T09:53:53.735Z" }
```

- **JSON Response:**

```
{"message": "Wishlist created successfully"}
```

- **Status:** 201 Created

- **Json file:** Confirmation message

---

24. Delete Wishlist

- **HTTP Method:** DELETE

- **URI**: `/blakbox/wishlists/:id`

- **Description:** Deletes a wishlist by ID.
```

- **Request Parameters:** id of the wishlist(_id)

- **JSON Response:**

{"message": "Wishlist deleted successfully"}

- **Status:** 200 OK

- **Json file:** Confirmation message

---

# 25. Add Product to Wishlist

- **HTTP Method:** POST

- **URI:** /blakbox/wishlistProducts

- **Description:** Adds a product to a wishlist.

- **Request Parameters:**

{"wishlistId": "68625ea5ea213c0029366884", "productId":

   "685cc96e01f2c068f203cdac" }

- **JSON Response:**

{"message": "Product added to wishlist successfully"}

- **Status:** 201 Created

- **Json file:** Confirmation message

---

# 26. Get Product in Wishlist by ID

- **HTTP Method:** GET

- **URI:** `/blakbox/wishlistProducts/:wishlistProductId`

- **Description:** Retrieves product in a wishlist by ID .

- **Request Parameters:** Id of the wishlistProduct(_id)

- **JSON Response:**

```
{"_id": "6866a3b1978f9041be0f6e7a", "wishlistId": {"_id":
"68625ea5ea213c0029366884"},

    "productId": {"_id": "685cc96e01f2c068f203cdac",

                "name": "Gaming Mouse",

                "brand": "Logitech",

                "price": 49.99

    }, "__v": 0}
```

- **Status:** 200 OK

- **Json file:** List of products in wishlist

---

27. Delete Product from Wishlist

- **HTTP Method:** DELETE

- **URI:** `/blakbox/wishlistProducts/:wishlistId/:productId`

- **Description:** Removes a product from a wishlist.

- **Request Parameters:** Id of the wishlistProduct(_id), and id of the wishlist(_id)

- **JSON Response:**

```
{"message": "Product removed from wishlist"}
```

- **Status:** 200 OK

- **Json file:** Confirmation message

---

28. Get Cart by User ID

- **HTTP Method:** GET

- **URI:** `/blakbox/carts/users/:userId`

- **Description**: Retrieves a specific cart.

- **Request Parameters:** Id of the user(_id)

- **JSON Response:**

```
{
    "_id": "686250cdac4b5adfd0bc2e4f",
    "userId": "68616dc37c1eac9cf89948e5",
    "createdDate": "2025-06-30T08:54:37.629Z",
    "__v": 0
}
```

- **Status:** 200 OK

- **Json file:** User cart

---

29. Add Product to Cart

- **HTTP Method:** POST

- **URI**: `/blakbox/cartProducts`

- **Description**: Adds a product to a cart.

- **Request Parameters:**

```
{ "cartId": "686250cdac4b5adfd0bc2e4f", "productId":
    "685cc9bd01f2c068f203cdae", "quantity": 3 }
```

- **JSON Response:**

```json
{"message": "Product added to cart successfully"}
```

- **Status:** 201 Created

- **Json file:** Confirmation message

---

30. Update Cart Product

- **HTTP Method:** PUT

- **URI:** `/blakbox/cartProducts/:cartId/:productId`

- **Description:** Updates a product in the cart.

- **Request Parameters:**

```json
{"quantity": 3}
```

- **JSON Response:**

```json
{"message": "Quantity updated"}
```

- **Status:** 200 OK

- **Json file:** Confirmation message

---

31. Delete Product from Cart

- **HTTP Method:** DELETE

- **URI:** `/blakbox/cartProducts/:cartId/:productId`

- **Description:** Removes a product from the cart.

- **Request Parameters:** id of the cartProduct(_id)Cart

- **JSON Response:**

```
{"message": "Product removed from cart"}
```

- **Status:** 200 OK

- **Json file:** Confirmation message

---

32. Get cartProducts by cartID

- **HTTP Method:** GET

- **URI:** `/blakbox/cartProducts/:cartId`

- **Description:** Retrieves existing products in a cart by the cartc Id

- **Request Parameters:** Id of the cart(_id)

- **JSON Response:**

```
[
    {
        "_id": "686751c1904ec16d3414553e",
        "cartId": "686250cdac4b5adfd0bc2e4f",
        "productId": {
            "_id": "688bc3a6e240f807107b123a",
            "name": "HDMI Cable",
            "price": 12.99
        },
        "__v": 0,
        "quantity": 9
    }
]
```

- **Status:** 200 OK

- **Json file:** Cart Product information

33. Get Shipping Info by ID

- **HTTP Method:** GET

- **URI:** `/blakbox/shippings/:id`

- **Description:** Retrieves shipping info.

- **Request Parameters:** Id of the shipping(_id)

- **JSON Response:**

```
{"_id": "68673d09225c301e83b2593e", "orderId": {"_id":
    "686206911735fa68f4ffd327"},

"shippingAddress": "1234 Technology Ave, Suite 501, San Jose,
    CA 95131, USA", "shippingCompany": "FedEx",
    "trackingNumber": "784529873654", "shippingDate":
    "2025-07-04T02:31:37.721Z", "estimatedDeliveryDate":
    "2025-07-11T02:31:37.722Z", "__v": 0}
```

- **Status:** 200 OK

- **Json file:** Shipping info

34. Create Shipping Record

- **HTTP Method:** POST

- **URI:** `/blakbox/shippings`

- **Description:** Creates a shipping record.

- **Request Parameters:**

{"orderId": "686206911735fa68f4ffd327", "shippingAddress":

"1234 Technology Ave, Suite 501, San Jose, CA 95131, USA",

"shippingCompany": "FedEx", "trackingNumber":

"784529873654"}

- **JSON Response:**

{"message": "Shipping created successfully"}

- **Status:** 201 Created

- **Json file:** Confirmation message

---

35. Update Shipping

- **HTTP Method:** PUT

- **URI:** /blakbox/shipping/:id

- **Description:** Updates shipping.

- **Request Parameters:**

{"shippingAddress": "221B Baker Street, London NW1 6XE, United

Kingdom", "shippingCompany": "DHL", "trackingNumber":

"JD014600004012345678"}

- **JSON Response:**

{"message": "Shipping address updated"}

- **Status:** 200 OK

- **Json file:** Confirmation message

---

36. Get All Products in an Order

- **HTTP Method:** GET

- **URI:** `/blakbox/orderProducts`

- **Description:** Retrieves products in an order.

- **Request Parameters:** None

- **JSON Response:**

```
[

{"_id": "6862519bac4b5adfd0bc2e5a", "orderId": {"_id":
"6862519bac4b5adfd0bc2e58"},

"productId": {"_id": "685dcf02a316e65d3eea76e3",

                "name": "Sapphire 6660XT 8GB DDR6",

                "price": 250.6},

"quantity": 2, "__v": 0},

{"_id": "6862519bac4b5adfd0bc2e5c", "orderId": {"_id":
"6862519bac4b5adfd0bc2e58"},

"productId": {"_id": "685dd554a316e65d3eea76f7",

                "name": "Wireless Mouse",

                "price": 24.99},

  "quantity": 3, "__v": 0 }
```

]

- **Status:** 200 OK

- **Json file:** Order products

---

37. Add Product to Order

- **HTTP Method:** POST

- **URI:** `/blakbox/orderProducts/:orderId`

- **Description:** Adds a product to an existing order.

- **Request Parameters:**

```
{"orderId": "686206911735fa68f4ffd327", "productId":
    "685dcf02a316e65d3eea76e3", "quantity": 4}
```

- **JSON Response:**

```
{"message": "Product added to order"}
```

- **Status:** 201 Created

- **Json file:** Confirmation message

---

38. Update Product in Order

- **HTTP Method:** PUT

- **URI:** `/blakbox/orderProducts/:orderId/:productId`

- **Description:** Updates product in an order.

- **Request Parameters:**

```
{"quantity": 4}
```

- **JSON Response:**

```
{"message": "Order quantity updated"}
```

- **Status:** 200 OK

- **Json file:** Confirmation message

---

39. Delete Product from Order

- **HTTP Method:** DELETE

- **URI:** /blakbox/orderProducts/:orderId/:productId

- **Description:** Removes product from an order.

- **Request Parameters:** id of the orderProduct(_id)

- **JSON Response:**

```
{"message": "Order product deleted successfully"}
```

- **Status:** 200 OK

- **Json file:** Confirmation message

---

40. Get Products in an Order by orderId

- **HTTP Method:** GET

- **URI:** /blakbox/orderProducts/:orderId

- **Description:** Retrieves products in order by ID

- **Request Parameters:** Id of the order

- **JSON Response:**

```json
{
    "order": {
        "orderId": "6862076f1735fa68f4ffd32f",
        "userId": "68616dc37c1eac9cf89948e5",
        "status": "completed",
        "total": 249.75,
        "orderDate": "2025-06-01T12:20:00.000Z"
    },
    "products": [
        {
            "productId": "685dcf02a316e65d3eea76e3",
            "name": "Sapphire 6660XT 8GB DDR6",
            "price": 250.6
        }
    ]
}
```

- **Status:** 200 OK

- **Json file:** Order products

Functional (Service) URIs

42. Get Similar Products

- **HTTP Method:** GET
- **URI:** `/blakbox/products/similar/:productId`
- **Description:** Returns a list of products similar to the one with the specified ID. Similarity can be based on category, brand, or shared tags.
- **Request Parameters:** productId – ID of the base product
- **JSON Response:**

```json
[
```

```
        { "id": 17, "name": "Gaming Mouse Pad", "brand":

        "Logitech", "category": "Accessories", "price": 20.99 },

        { "id": 23, "name": "Ergonomic Wrist Rest", "brand":

        "Logitech", "category": "Accessories", "price": 15.49 }

    ]
```

- **Status:** 200 OK
- **Json file:** List of similar products

---

43. Get Top-Selling Products

- **HTTP Method:** GET

- **URI:** `/blakbox/products/top-sellers`

- **Description:** Retrieves top-selling products.

- **Request Parameters:** None

- **JSON Response:**

```
{"id": 5, "name": "Monitor 24''", "sales": 150}
```

- **Status:** 200 OK
- **Json file:** Top products

---

44. Get Low Stock Products

- **HTTP Method:** GET

- **URI:** `/blakbox/products/low-stock`

- **Description:** Lists products with low stock.

- **Request Parameters:** None

- **JSON Response:**

```json
{"id": 6, "name": "HDMI Cable", "stock": 3}
```

- **Status:** 200 OK
- **Json file:** Low-stock list

---

45. Update Stock of a Product

- **HTTP Method:** PUT

- **URI:** /blakbox/products/:productId/stock

- **Description:** Updates only the stock quantity.

- **Request Parameters:**

```json
{"stock": 15}
```

- **JSON Response:**

```json
{message: 'Stock updated successfully' }
```

- **Status:** 200 OK

- **Json file:** Confirmation message

---

46. Get Discounted Products

- **HTTP Method:** GET

- **URI:** /blakbox/products/discounted

- **Description:** Lists products on discount.

- **Request Parameters:** None

- **JSON Response:**

```
{"id": 7, "name": "USB Hub", "discount": "10%"}
```

- **Status:** 200 OK
- **Json file:** Discounted products

---

47. Submit Product Rating

- **HTTP Method:** POST

- **URI:** /blakbox/products/:productId/rating

- **Description:** Submits a rating/review.

- **Request Parameters:**

```
{"rating": 5, "comment": "Excellent product!"}
```

- **JSON Response:**

```
{"message": "Review submitted"}
```

- **Status:** 201 Created
- **Json file:** Confirmation

---

48. Get Average Product Rating

- **HTTP Method:** GET

- **URI:** /blakbox/products/:productId/average-rating

- **Description:** Retrieves average rating of a product.

- **Request Parameters:** Product ID

- **JSON Response:**

```
{"averageRating": 4.5}
```

- **Status:** 200 OK

- **Json file:** Rating summary

---

49. Get Inventory Summary Report

- **HTTP Method:** GET

- **URI:** /blakbox/reports/inventory-summary

- **Description:** Provides an inventory summary.

- **Request Parameters:** None

- **JSON Response:**

{"totalProducts": 120, "outOfStock": 8, "categories": 10}

- **Status:** 200 OK
- **Json file:** Summary report

---

50. Compare Products by ID

- **HTTP Method:** GET

- **URI:** /blakbox/products/compare/:productId1/:productId2

- **Description:** Compares selected products by features.

- **Request Parameters:** ids (comma-separated)

- **JSON Response:**

{

    "products": [

        {

            "id": "685cc96e01f2c068f203cdac",

```
        "name": "Gaming Mouse",

        "price": 49.99

      },

      {

        "id": "685dd554a316e65d3eea76f7",

        "name": "Wireless Mouse",

        "price": 24.99

      }

    ],

    "comparison": "Wireless Mouse is cheaper than Gaming
Mouse"

}
```

- **Status:** 200 OK
- **Json file:** Comparison list

---

51. Update Payment Status

- **HTTP Method:** PUT
- **URI:** `/blakbox/payments/:paymentId/status`
- **Description:** Updates the status of a specific payment.
- **Request Parameters:**

`{"status": "confirmed"}`

- **JSON Response:**

`{"message": "Payment status updated to confirmed."}`

- **Status:** 200 OK
- **Json file:** Confirmation message of status update

---

52. Checkout Cart

- **HTTP Method:** POST
- **URI:** /blakbox/carts/checkout
- **Description:** Processes payment and places order from cart.
- **Request Parameters:** Cart ID
- **JSON Response:**

  {"message": "Checkout complete"}

- **Status:** 200 OK
- **Json file:** Confirmation

---

53. Get Products By Price Range

- **HTTP Method:** GET

- **URI:** /blakbox/products/price/:min/:max

- **Description:** Retrieves a list of products based on a range price.

- **Request Parameters:** price

- **JSON Response:**

      [
          {
              "discount": "0%",
              "features": [],
              "sales": 0,
              "_id": "685cc96e01f2c068f203cdac",
              "name": "Gaming Mouse",
              "description": "RGB high precision mouse",
              "brand": "Logitech",

```
                "price": 49.99,
                "stock": 30,
                "categoryId": "68672d648a254b8b7d396529",
                "__v": 0,
                "ratings": []
        },
        {
                "discount": "0%",
                "features": [],
                "sales": 0,
                "_id": "685dd554a316e65d3eea76f7",
                "name": "Wireless Mouse",
                "description": "Ergonomic wireless mouse with
    2.4GHz connectivity and adjustable DPI.",
                "brand": "Logitech",
                "price": 24.99,
                "stock": 20,
                "categoryId": "68672d648a254b8b7d396529",
                "__v": 0,
                "ratings": []
        }
    ]
```

- **Status:** 200 OK
- **Json file:** List of recommended products

---

54. Cancel Order

- **HTTP Method:** PUT

- **URI:** `/blakbox/orders/cancel/:orderId`

- **Description:** Cancels an existing order.

- **Request Parameters:** Order ID

- **JSON Response:**

```
{ message: "Order cancelled successfully." }
```

- **Status:** 200 OK

- **Json file:** Confirmation

---

55. Send Order Delivery Message via WhatsApp

- **HTTP Method:** POST

- **URI:** /blakbox/notifications/whatsapp/send

- **Description:** Sends a WhatsApp message to the client with delivery details of their order.

- **Request Parameters:**

{"orderId": "6862519bac4b5adfd0bc2e58", "userId": "68616dc37c1eac9cf89948e5", "phoneNumber": "0987654321", "message": "Hi Aria, your order #6881e4f59b7c221cadc41301 is ready. Please coordinate your shipment by replying to this message"}

- **JSON Response:**

{"message": "WhatsApp notification sent successfully"}

- **Status:** 200 OK
- **Json file:** Delivery message confirmation

---

56. Get Order History by user Id with statistics and grouping by month and year

- **HTTP Method:** GET

- **URI:** /blakbox/orders/history/:userId

- **Description:** Lists previous orders for a user with relevant statistics and grouping by month and year

- **Request Parameters:** userId

- **JSON Response:**

```json
{
    "userId": "685bb91a0eeff8b08e0e130b",
    "totalOrders": 3,
    "totalSpent": 369.48,
    "lastOrderDate": "2025-06-25T10:15:00.000Z",
    "history": {
        "2025": {
            "June": [
                {
                    "orderId": "686206911735fa68f4ffd327",
                    "orderDate": "2025-06-25T10:15:00.000Z",
                    "total": 89.99,
                    "status": "pending"
                },
                {
                    "orderId": "686207011735fa68f4ffd329",
                    "orderDate": "2025-06-20T14:42:00.000Z",
                    "total": 149.5,
                    "status": "paid"
                },
                {
                    "orderId": "686207551735fa68f4ffd32d",
                    "orderDate": "2025-06-10T17:00:00.000Z",
                    "total": 129.99,
                    "status": "cancelled"
                }
            ]
        }
    }
}
```

- **Status:** 200 OK

- **Json file:** Order history

---

57. Confirm Payment

- **HTTP Method:** POST
- **URI:** `/blakbox/payments/confirm/:paymentId`
- **Description:** Confirms a pending payment and updates its status to "confirmed".
- **Request Parameters:** `paymentId` (URL param) – ID of the payment to confirm
- **JSON Response:**

  `{ "message": "Payment confirmed successfully." }`

- **Status:** 200 OK
- **Json file:** Confirmation message

---

58. Notify Product Back in Stock to Wishlist User

- **HTTP Method:** POST

- **URI:** `/blakbox/notifications/availability/notify`

- **Description:** Notifies users via WhatsApp or email when a product in their wishlist is back in stock.

- **Request Parameters:**

  `{"productId": "688bc3a6e240f807107b123b"}`

- **JSON Response:**

  `{"message": "Users notified about product availability"}`

- **Status:** 200 OK
- **Json file:** Notification result

---

59. Get Total Cart Price

- **HTTP Method:** GET

- **URI:** `/blakbox/carts/total?cartId=:cartId`

- **Description:** Calculates total price of items in cart.

- **Request Parameters:** cartId

- **JSON Response:**

`{"total": 189.98}`

- **Status:** 200 OK
- **Json file:** Cart summary

---

60. Validate Payment

- **HTTP Method:** POST

- **URI:** `/blakbox/payments/validate`

- **Description:** Validates if a payment was completed successfully.

- **Request Parameters:**

`{"paymentId": "68620d78c4df34943ef7ce55"}`

- **JSON Response:**

`{"message": "The payment validation is: true"}`

- **Status:** 200 OK
- **Json file:** Validation result