**Black Box API - URI Documentation (CRUD + Functional)**

## **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",

"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:**

{"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:**

{"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:**

{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:**

[

{

"\_id": "68620d14c4df34943ef7ce53",

"userId": "685bb91a0eeff8b08e0e130b",

"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](mailto: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/:id

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

● **Request Parameters:** Id of the wishlistProduct(\_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:**

{"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:**

{"quantity": 3}

● **JSON Response:**

{"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/shipping/: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:**

{

"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**

### **41. Search Products by Keyword**

● **HTTP Method:** GET

● **URI:** /blakbox/products/search?keyword=mouse

● **Description:** Searches products by name or description.

● **Request Parameters:** keyword

● **JSON Response:**

[

{"id": 1, "name": "Gaming Mouse"},

{"id": 4, "name": "Wireless Mouse"}

]

● **Status:** 200 OK

● **Json file:** Matching products

### 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:**

[

{ "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:**

{"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:**

{"stock": 15}

● **JSON Response:**

{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:**

{

"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=3

● **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