**Api Endpoints**

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| --- | --- | --- | --- |
| Method | Endpoint | Description | Request Body/Params |
| GET | http://localhost:8080/items | Retrieve all items | None |
| GET | http://localhost:8080/items/{itemId} | Retrieve an item by ID | itemId (path variable) |
| POST | http://localhost:8080/items | Add a new item | Item object (JSON) |
| PUT | http://localhost:8080/items/add-quantity/{itemId} | Add quantity to an item | itemId (path variable), quantity in request body |
| PUT | http://localhost:8080/items/reduce-quantity/{itemId} | Reduce quantity of an item | itemId (path variable), quantity in request body |
| PUT | http://localhost:8080/items/update-price/{itemId} | Update the price of an item | itemId (path variable), price in request body |
| DELETE | http://localhost:8080/items/{itemId} | Delete an item | itemId (path variable) |

**Example JSON Request Bodies**

Here are the sample inputs and expected responses for all endpoints in your Inventory Management System:

1. **Retrieve All Items**

**Endpoint**: GET /items

**Sample Input**:

*No input required.*

**Expected Response**:

[

{

"id": 1,

"itemName": "PS5",

"price": 10000,

"quantity": 10

},

{

"id": 2,

"itemName": "Sony TV",

"price": 25000,

"quantity": 50

}

]

1. **Retrieve Item by ID**

**Endpoint**: GET /items/{itemId}

**Sample Input**:

itemId = 1

**Expected Response**:

{

"id": 1,

"itemName": "Laptop",

"price": 1000,

"quantity": 10

}

1. **Add a New Item**

**Endpoint**: POST /items

**Sample Input**:

{

"itemName": "Sony TV",

"price": 25000,

"quantity": 50

}

**Expected Response**:

{

"id": 3,

"itemName": "Sony TV",

"price": 25000,

"quantity": 50

}

1. **Add Quantity to an Item**

**Endpoint**: PUT /items/add-quantity/{itemId}

**Sample Input**: itemId = 1  
Request Body:

{

"quantity": 5

}

**Expected Response**:

{

"id": 1,

"itemName": "Laptop",

"price": 1000,

"quantity": 15

}

1. **Reduce Quantity of an Item**

**Endpoint**: PUT /items/reduce-quantity/{itemId}

**Sample Input**: itemId = 1  
Request Body:

{

"quantity": 3

}

**Expected Response**:

{

"id": 1,

"itemName": "Laptop",

"price": 1000,

"quantity": 7

}

1. **Update Price of an Item**

**Endpoint**: PUT /items/update-price/{itemId}

**Sample Input**: itemId = 1  
Request Body:

{

"price": 1200

}

**Expected Response**:

{

"id": 1,

"itemName": "Laptop",

"price": 1200,

"quantity": 10

}

1. **Delete an Item**

**Endpoint**: DELETE /items/{itemId}

**Sample Input**:

itemId = 1

**Expected Response**:

*No Content (HTTP 204)*