Rest API Requirements

# Introduction

Falcon Amazon is a RESTful API designed for a testing clone of Amazon. This document outlines the requirements and endpoints for the API, which will be used to handle data for the Customers, Products, Orders, and OrderItems tables.

# Requirements

If it is deemed necessary, token-based authentication or OAuth should be used to protect sensitive endpoints such as customer data. It would also be useful to include protections that ensure that only certain users can perform more sensitive tasks such as editing products and deleting orders.

Endpoints that return data will return it in json format. Below is an example of the returned value when GET /customers/{id} is requested with a valid CustomerID.

{

“CustomerID”: “1001”,

“FirstName”: ”John”

“LastName”: “Doe”,

“EmailAddress”: “johndoe@gmail.com“,

“PhoneNumber”: “+447264019678“,

“DOB”: “2023-04-14T12:00:00”

}

Endpoints that require data will take it from the body assuming it is in json format.

The user will be able to create an order with all their desired order items in one request as the user will be able to pass an array of order items as part of the post request to create a new order. The user will also be able to edit, add, delete and update individual order items on an order even after it has been created.

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# Endpoints

## Customers Table

* POST /customers: Create a new customer account
* GET /customers/{id}: Retrieve an existing customer account
* PUT /customers/{id}: Update an existing customer account
* DELETE /customers/{id}: Delete an existing customer account

## Products Table

* GET /products: Retrieve a list of all products
* GET /products/{id}: Retrieve a specific product by ID
* POST /products: Create a new product
* PUT /products/{id}: Update an existing product
* DELETE /products/{id}: Delete an existing product

## Orders Table

* GET /orders: Retrieve a list of all orders
* GET /orders/{id}: Retrieve a specific order by ID
* POST /orders: Create a new order with all desired order items in the request body
* DELETE /orders/{id}: Delete an existing order and all the linked OrderItems

## OrderItems Table

* GET /orders/{id}/order\_items: Retrieve a list of all order items for a specific order
* GET /order\_items/{id}: Retrieve a specific order item by ID
* POST /orders/{id}/order\_items: Add a new order item to an existing order
* PUT /order\_items/{id}: Update an existing order item
* DELETE /order\_items/{id}: Remove an existing order item from an order

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# Full list

POST /customers

GET /customers/{id}

PUT /customers/{id}

DELETE /customers/{id}

GET /products

GET /products/{id}

POST /products

PUT /products/{id}

DELETE /products/{id}

GET /orders

GET /orders/{id}

GET /orders/{id}/order\_items

POST /orders

POST /orders/{id}/order\_items

DELETE /orders/{id}

GET /order\_items/{id}

PUT /order\_items/{id}

DELETE /order\_items/{id}