

Admin seeing KPI's

The screenshot shows a POST request to the endpoint `/cart/add`. The request body is a JSON object:

```
{
  "user_token": "RPfwC0NSXH6AjiAMQhCeIMATF4",
  "product_id": "B08DDRGWTJ",
  "quantity": 12
}
```

The response body is also a JSON object:

```
{
  "message": "Item added to cart",
  "product_id": "B08DDRGWTJ",
  "quantity": 12
}
```

Checking out

The screenshot shows a POST request to the endpoint `/checkout`. The response body is a JSON object representing an order confirmation:

```
{
  "message": "Order confirmed",
  "transaction": {
    "transaction_id": "b6a46cd1-69b3-409e-b4e6-1488cc1de61b",
    "user_id": "1ac89442-0675-4b34-af22-af570d315926",
    "customer_name": "string",
    "customer_email": "user@example.com",
    "items": [
      {
        "product_id": "B08DDRGWTJ",
        "product_name": "MI Usb Type-C Cable Smartphone (Black)",
        "img_link": "https://m.media-amazon.com/images/I/31X0-wfGGGL.SX300.SY300.QL70.FMwebp.jpg",
        "product_link": "https://www.amazon.in/MI-MTCY001IN-USB-Type-C-Cable/dp/B08DDRGWTJ/ref=sr_1_9?qid=1672909124&s=electronics&sr=1-9",
        "discounted_price": 229,
        "quantity": 12
      }
    ],
    "total_price": 2748,
    "timestamp": "2025-12-02T19:43:45.955975+00:00",
    "estimated_delivery": "2025-12-07",
    "status": "completed"
  }
}
```

Generating the KPI's

The screenshot shows a GET request to the endpoint `/kpi`. The response body is a JSON object containing various KPI metrics:

```
{
  "summary": {
    "total_revenue": 2977,
    "total_transactions": 2,
    "total_users_with_transactions": 1,
    "returning_users": 1
  },
  "categories": {
    "Computers&Accessories|Accessories&Peripherals|Cables&Accessories|Cables|USBCables": {
      "total_revenue": 2977,
      "transaction_count": 2,
      "most_purchased_products": [
        {
          "product_id": "B08DDRGWTJ",
          "product_name": "MI Usb Type-C Cable Smartphone (Black)",
          "purchase_count": 13
        }
      ]
    }
  },
  "most_purchased_products": [
    {
      "product_id": "B08DDRGWTJ",
      "product_name": "MI Usb Type-C Cable Smartphone (Black)",
      "purchase_count": 13
    }
  ]
}
```

Doing this with a different cart

```
{  
  "user_id": "1658066d-736f-4978-80da-ad9cc7a98c6c",  
  "items": [  
    {  
      "product_id": "B09JPC82QC",  
      "product_name": "Mi 108 cm (43 inches) Full HD Android LED TV 4C | L43M6-INC (Black)",  
      "img_link": "https://m.media-amazon.com/images/I/41nsy8lxwUL._SY300_SX300_QL70_FMwebp_.jpg",  
      "product_link": "https://www.amazon.in/inches-Full-Android-L43M6-INC-Black/dp/B09JPC82QC/ref=sr_1_45?qid=1672909125&s=electronics&sr=1-45",  
      "discounted_price": 1999,  
      "quantity": 4  
    },  
    {  
      "product_id": "B00NW11KIK",  
      "product_name": "AmazonBasics USB 2.0 Cable - A-Male to B-Male - for Personal Computer, Printer- 6 Feet (1.8 Meters), Black",  
      "img_link": "https://m.media-amazon.com/images/I/410tvIzySzL._SY300_SX300_QL70_FMwebp_.jpg",  
      "product_link": "https://www.amazon.in/AmazonBasics-USB-2-0-Cable-Male/dp/B00NW11KIK/ref=sr_1_44?qid=1672909125&s=electronics&sr=1-44",  
      "discounted_price": 209,  
      "quantity": 10  
    }  
  ],  
  "total_price": 82086  
}  
  
[ 
```

Chart router with a different cart

```
{  
  "top_products_by_sales": [  
    {  
      "product_name": "Mi 108 cm (43 inches) Full HD Android LED TV 4C | L43M6-INC (Black)",  
      "sales": 10  
    },  
    {  
      "product_name": "Mayona Nylon Braided 3A Lightning to USB A Syncing and Fast Charging Data Cable for iPhone, Ipad (3 FT Pack of 1, Black)",  
      "sales": 4  
    },  
    {  
      "product_name": "TP-Link Nano AC600 USB Wi-Fi Adapter(Archer T2U Nano)- 2.4G/5G Dual Band Wireless Network Adapter for PC Desktop Laptop, Mini Travel Size, Supports Windows 11,10, 8.1,  
     8, 7, XP/Mac OS 10.9-10.15",  
      "sales": 3  
    },  
    {  
      "product_name": "Unknown Product",  
      "sales": 2  
    }  
  ],  
  "category_distribution": [  
    {  
      "category": "Electronics|HomeTheater,TV&Video|Televisions|SmartTelevisions",  
      "revenue": 199998,  
      "percentage": 97.47  
    },  
    {  
      "category": "Computers&Accessories|NetworkingDevices|NetworkAdapters|WirelessUSBAdapters",  
      "revenue": 2000,  
      "percentage": 2.53  
    }  
  ]  
}  
  
[ 
```

Pytest success

```
backend/tests/test_transactions.py::TestTransactionServiceUnit::test_get_user_transactions_success PASSED [ 94%]  
backend/tests/test_transactions.py::TestTransactionServiceUnit::test_get_user_transactions_empty PASSED [ 95%]  
backend/tests/test_transactions.py::test_checkout_empty_cart PASSED [ 95%]  
backend/tests/test_transactions.py::test_checkout_success PASSED [ 96%]  
backend/tests/test_transactions.py::test_get_transactions_empty PASSED [ 97%]  
backend/tests/test_transactions.py::test_get_user_transactions PASSED [ 97%]  
backend/tests/test_transactions.py::test_get_transaction_by_id PASSED [ 98%]  
backend/tests/test_transactions.py::test_get_nonexistent_transaction PASSED [ 98%]  
backend/tests/test_transactions.py::test_unauthorized_transaction_access PASSED [ 99%]  
backend/tests/test_transactions.py::test_checkout_multiple_items PASSED [100%]  
  
===== 167 passed in 67.26s (0:01:07) ======  
PS C:\Users\USER\Documents\GitHub\Netflix-and-Coding> [
```