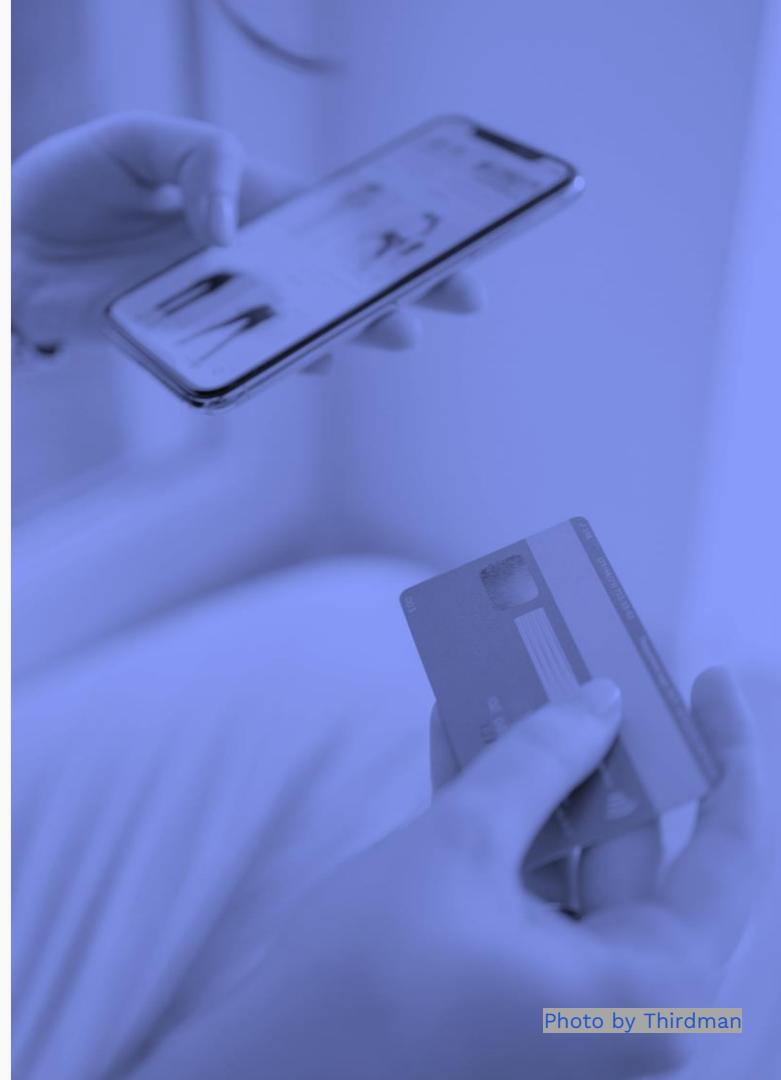


# E-COMMERCE BUSINESS PERFORMANCE ANALYSIS

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Atthoriq Putra Pangestu



# TOPICS

**01**

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PROJECT  
BACKGROUND

**02**

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CUSTOMER  
ACTIVITY

**03**

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PRODUCT  
CATEGORIES

**04**

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REVENUE &  
PRODUCTS

**05**

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PROPOSED  
ACTIONS

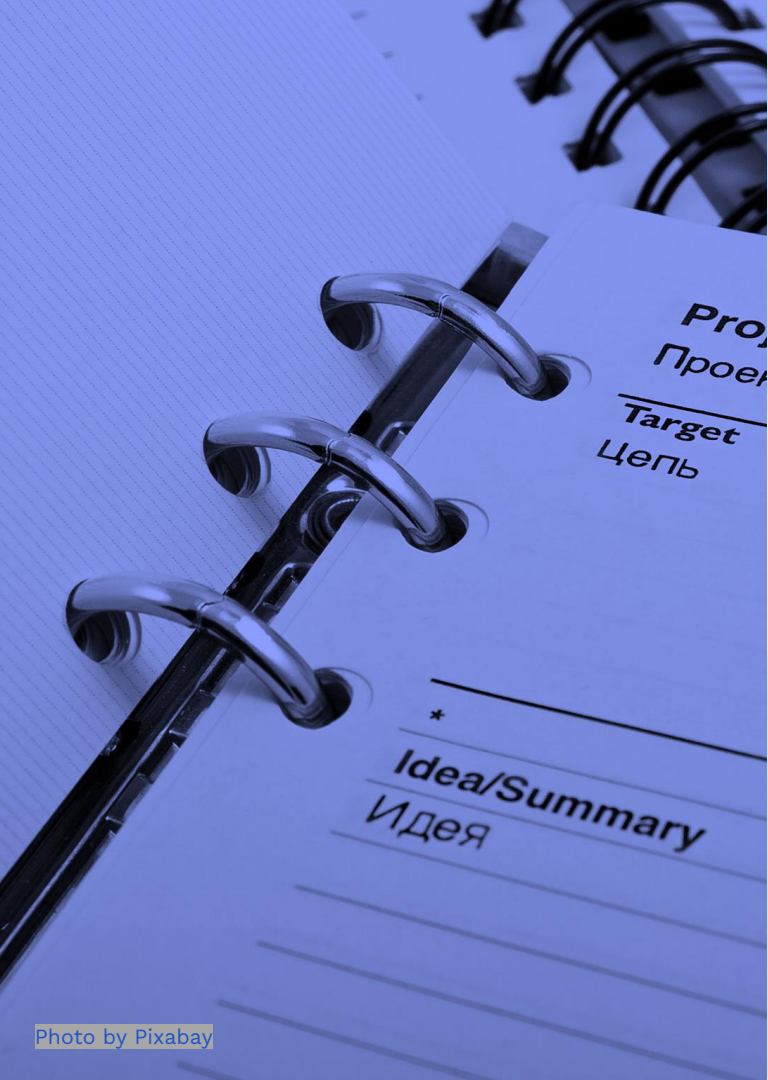


Photo by Pixabay

# 01

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# PROJECT BACKGROUND

# ABOUT THE E-COMMERCE

Data for this analysis comes from [Olist](#), a major Brazilian e-commerce platform. Olist seamlessly [connects small businesses across Brazil](#) to various sales channels through a single contract.

These merchants can sell their products through the [Olist Store](#) and fulfill orders using [Olist's logistics partners](#). Upon order completion, customers receive a [satisfaction survey via email](#), allowing them to rate their purchase experience and provide feedback.



# MOTIVATION

This project began as an [exploratory data visualization](#) study, aiming to uncover the fundamental metrics used to [assess e-commerce business performance](#).

By examining the current dataset, we will identify valuable insights into e-commerce business performance and formulate [actionable recommendations](#).

# OBJECTIVES

To measure the current e-commerce [business performance](#) through the following aspects:



**Customer Activity**



**Revenue & Products**



**Payment Types**



Photo by Danilo Ugaddan

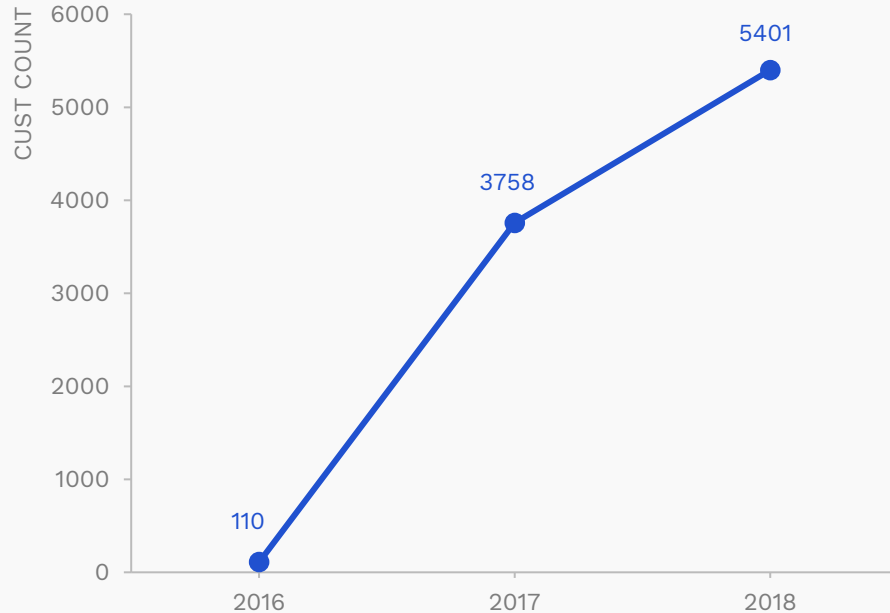
# 02

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## CUSTOMER ACTIVITY

# Significant Customer Growth

from late 2016 to 2018

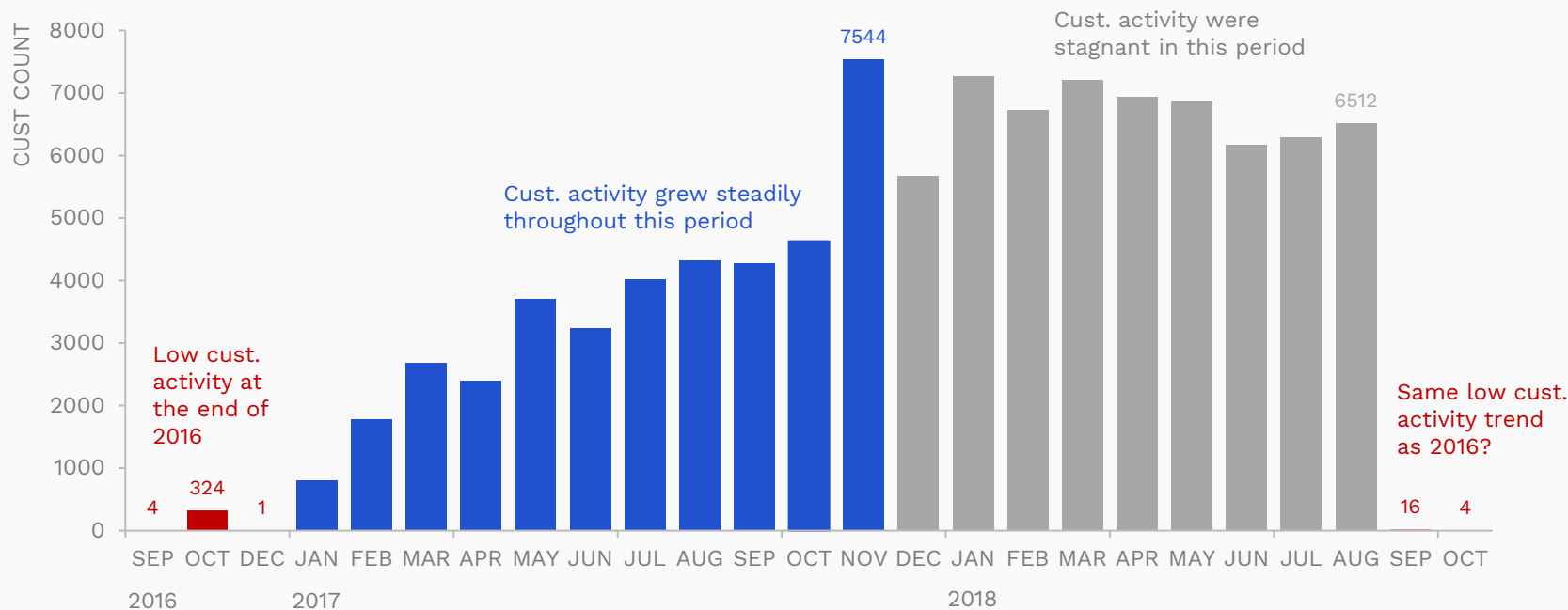


The number of active customers went up **steadily** from 2016 to 2018.

This indicates a **successful marketing strategy**, showing wide e-commerce **brand awareness**

# Customer Activity Patterns

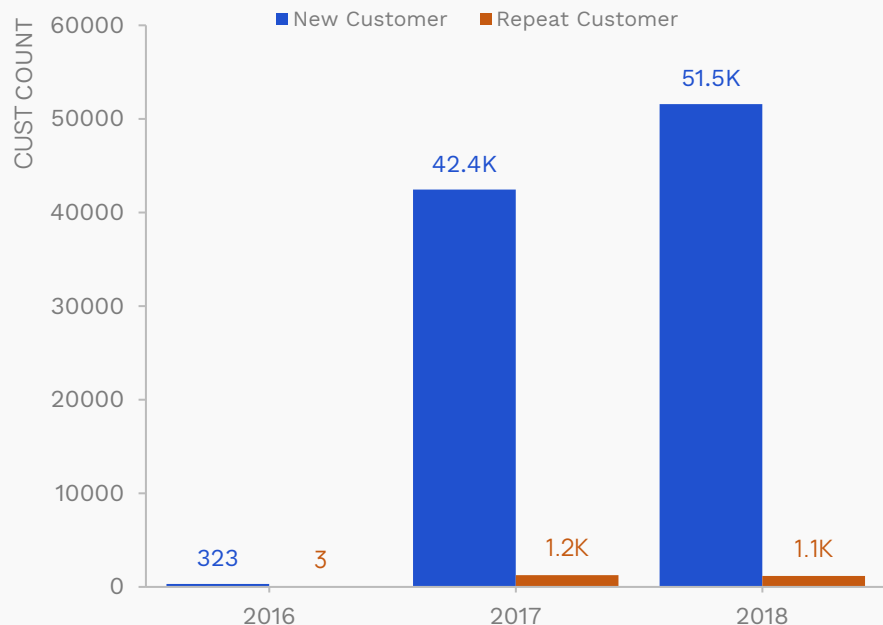
moving between periods of **growth**, stagnancy, and **decline**





# Most orders came from **new customers**

the **repeat customer** frequency stayed consistent.

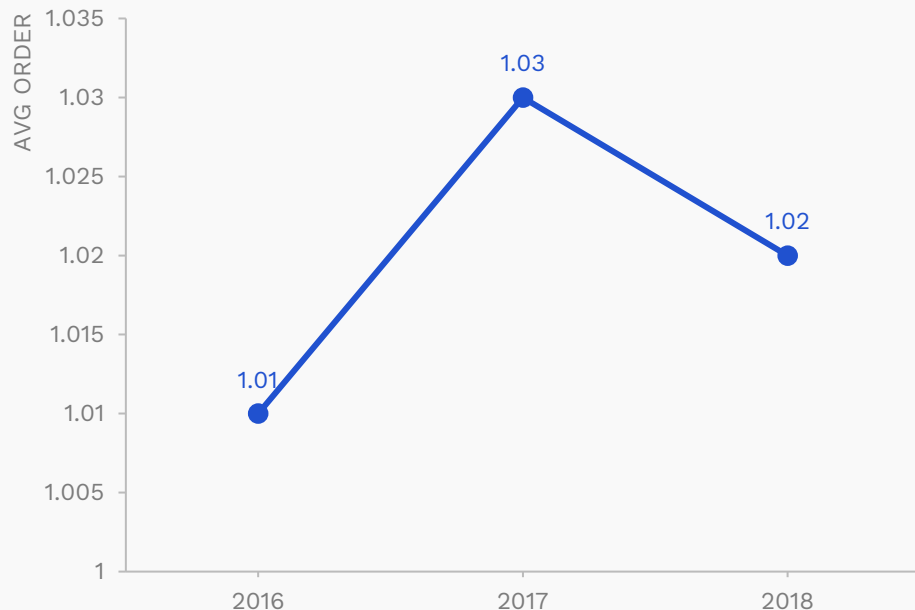


Customers often make just one purchase, likely drawn in by a **first-time promotion** or **discount**.

The low and unchanging number of repeat customers may be because they **don't find what they want**, are **price-sensitive**, or compare prices with **competitors**.

# Annual Average Order per Customer is **Stagnant**

despite the significant growth in monthly active customers



This is supported by the growth in e-commerce users was mostly due to **new customers** who only bought something **once** from the store.

# 03

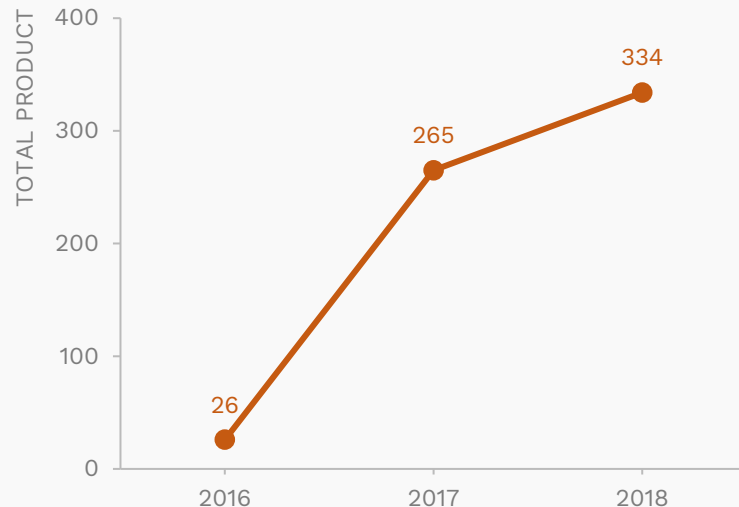
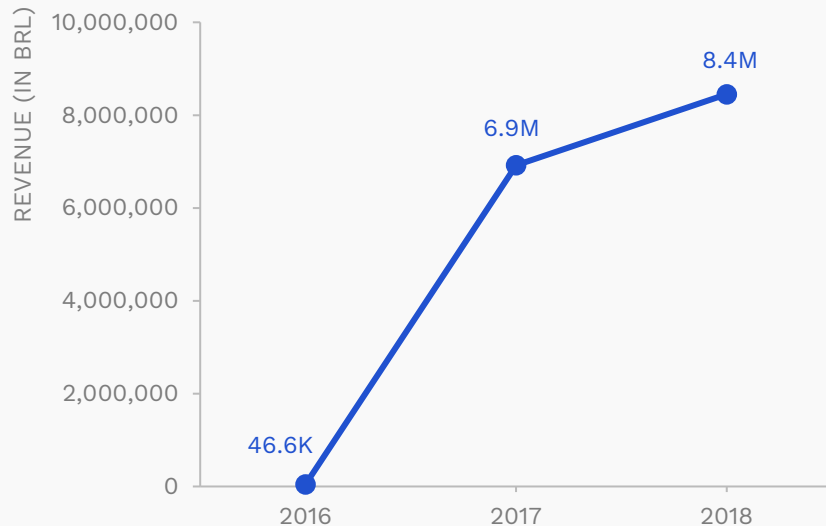
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## REVENUE & PRODUCTS



# Annual Revenue is Growing Significantly

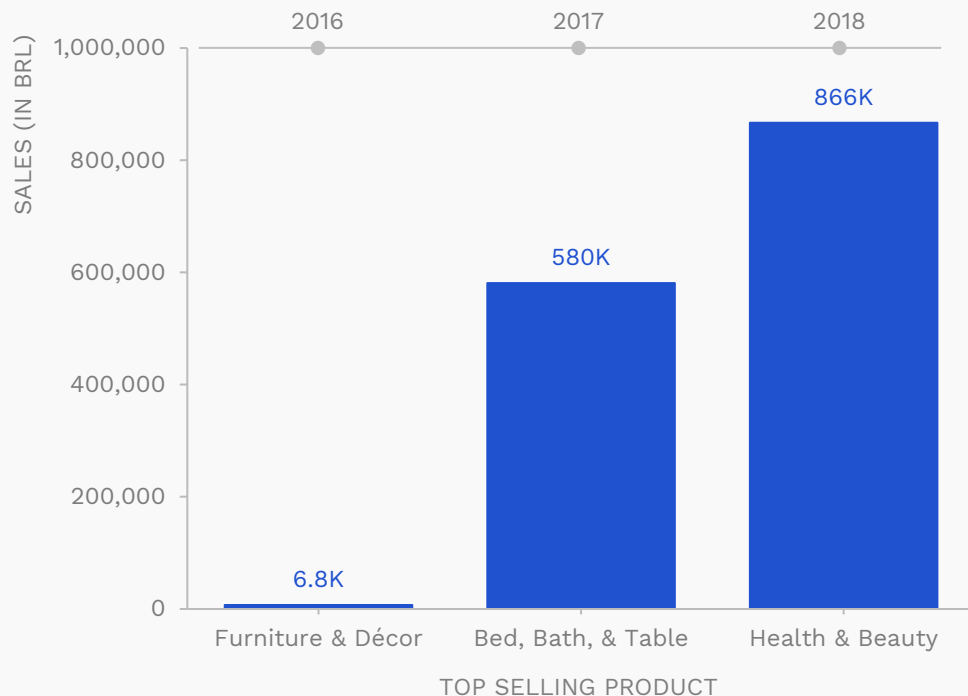
and so is the total number of canceled orders!



The observed **revenue-cancellation** association may reflect broader market trends, such as increased e-commerce **competition** driving both higher revenue and canceled orders due to **price sensitivity** and **comparisons**.

# Top-Selling Products

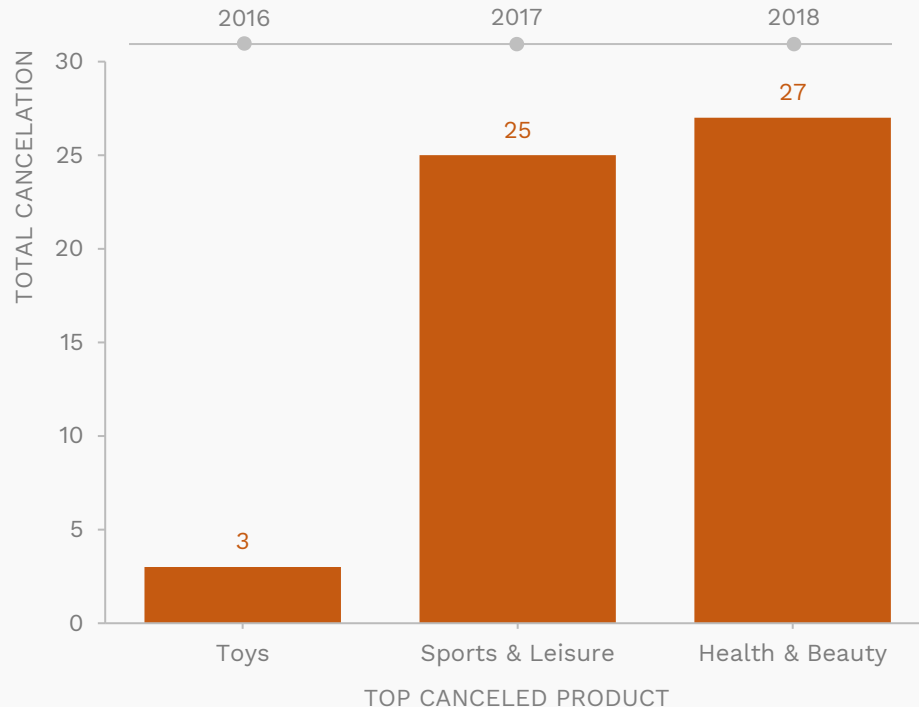
As the year goes by, the customers' preferences have changed.



Notably, **Health & Beauty's revenue dominance** in 2018 indicates a surge in merchants providing **wellness** and **self-care** products, reflecting a shift in customer preferences towards health and beauty.

# Top-Canceled Products

cancellation rates for product categories have shifted over time



Notably, 2018 revealed Health and Beauty products **dominate top sales**, but also saw the **highest cancellation rates**, suggesting **increased competition** and customer **price sensitivity** in this category.



# 04

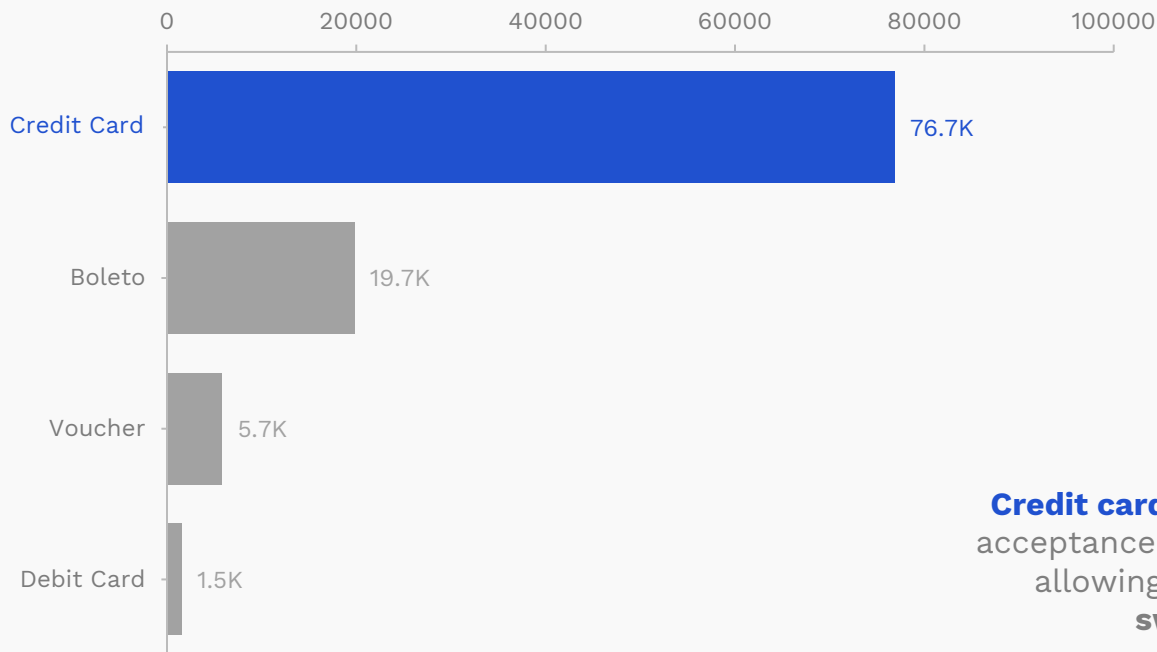
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## PAYMENT TYPES

# Credit Cards: All-Time Most Popular Payment

while Boleto showing notable popularity

PAYMENT METHOD | FREQUENCY

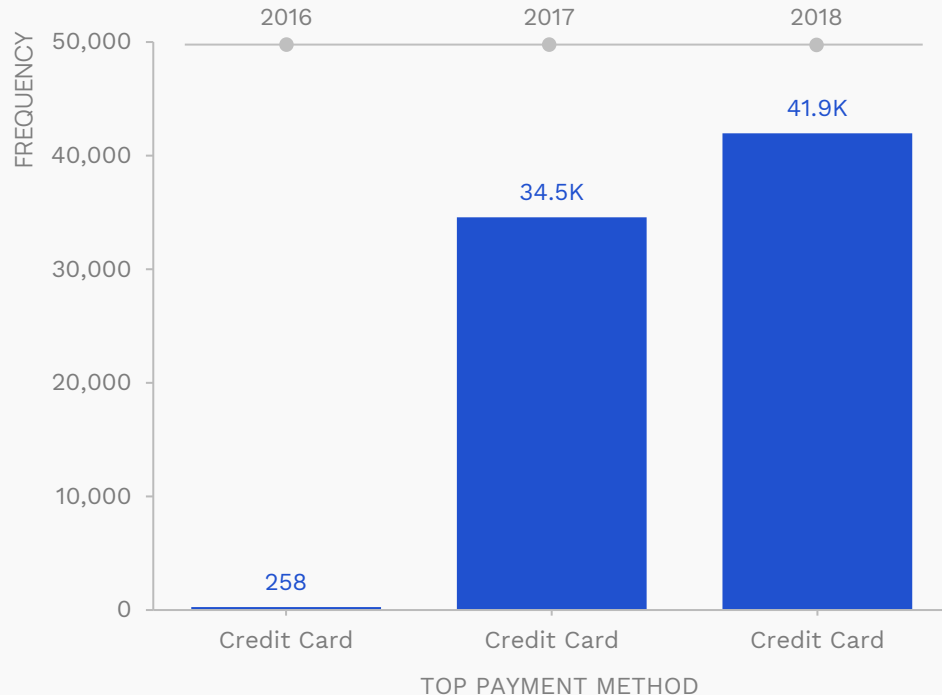


**Credit cards** have gained widespread acceptance due to their **convenience**, allowing users to make purchases **swiftly** and **without hassle**.



# Credit Cards: Popular Across Years

As the year goes by, the customers' preferences have changed.



This shows a **steady trend** of payment method preference, where **credit card** still shows the most **convenient** payment method to use in this e-commerce.



# 05

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## PROPOSED ACTIONS

# CUSTOMER ACTIVITY



Photo by Leeloo Thefirst

## Revise Marketing Strategy

Despite the significant increase in annual customer growth, it **stagnated** from December 2017 onward and **declined further** from September 2018.

We need to **reevaluate our marketing strategy**, especially compared to the **successful period** from January 2017 to November 2017.

It is suspected that the marketing strategy **remained unchanged** from December 2017, **failed to adapt** to evolving market conditions, or was **modified ineffective**.

# CUSTOMER ACTIVITY



Photo by Shattha Pilabut

## Enhance Product Offerings

The low and stagnant **average order per customer** and **repeat customer** rate indicate that customers may be solely taking advantage of **'first-time' discounts**, are **unable to find the products** they seek, or are **sensitive to pricing** and actively **compare prices** with competitors.

We need to **realign** our **main product offerings** according to customers' preferences, with **optimized pricings** that we will get from future competitor analyses.

# REVENUE & PRODUCTS



Photo by Karolina Grabowska

## Prioritize Health and Beauty Products

Compared to other products and years, Health & Beauty products had the **highest sales** while it also had the **highest cancelation rate**.

We can utilize this by encouraging merchants to:

1. Expand their health and beauty product diversity
2. Giving targeted promotions and campaigns for health and beauty products
3. Create 'curated product bundles' for health and beauty products.

# PAYMENT TYPES



Photo by Pixabay

## Give Special Promotions to Credit Card Users

Since the credit card payment type dominated from late 2016 to 2018, we can utilize this insight by giving **special promotions** to customers who use credit cards for checkouts.

Examples of these promotions include but are not limited to:

1. Price discounts from using credit card
2. Priority shipping when credit card used at their first or next purchase (this could be further customized later on)



Photo by Karolina Grabowska

# Thank you!

If you have any questions, please feel free to reach me out on any of these contacts:

[atthoriqpp.student@gmail.com](mailto:atthoriqpp.student@gmail.com)



+6281359335553



[Atthoriq Putra Pangestu](#)



[atthoriqpp](#)

