

Module 3: Deep Dive - Functions, OOPs, Modules, Errors, and Exceptions

Case Study – 3

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Domain – E-Commerce

focus – Optimization

Business challenge/requirement

GoodsKart—the largest eCommerce company in Indonesia with revenue of \$2B+ acquired another eCommerce company FairDeal. FairDeal has its own IT system to maintain records of customers, sales, etc. For ease of maintenance and cost savings GoodsKart is integrating customer databases of both organizations hence customer data of FairDeal has to be converted in GoodsKart Customer Format.

Key issues

GoodsKart customer data has more fields than in FairDeal customer data. Hence FairDeal data needs to be split and stored in GoodsKart Customer Object-Oriented Data Structure

Considerations

The system should convert the data at run time

Data volume

- NA

Additional information

- NA

Business benefits

GoodsKart can eventually sunset the IT systems of FairDeal and reduce IT cost by 20-30%

Approach to Solve

You have to use the fundamentals of Python taught in module 2

1. Read FairDealCustomerData.csv
2. Name field contains full name – use a regular expression to separate title, first name, last name
3. Store the data in Customer Class
4. Create Custom Exception – CustomerNotAllowedException

5. Pass a customer to function "createOrder" and throw CustomerNotAllowedException in case of blacklisted value is 1

Enhancements for code

You can try these enhancements in code

1. Change function createOrder to take productname and product code as input
 2. Create Class Order
- Return object of type Order in case customer is eligible

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