

Case Study III :

Domain – E-Commerce focus – Optimization

Business challenge/requirement GoodsKart—largest ecommerce company of Indonesia with revenue of \$2B+ acquired another ecommerce company FairDeal. FairDeal has its own IT system to maintain records of customer, sales etc. For ease of maintenance and cost savings GoodsKart is integrating customer databases of both the 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 System should convert the data at run time

Data volume - NA

Additional information - NA

Business benefits GoodsKart can eventually sunset IT systems of FairDeal and reduce IT cost by 2030%

Approach to Solve You have to use fundamentals of Python taught in module 3.

1. Read FairDealCustomerData.csv
2. Name field contains full name – use 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

Solution:

Important Points :

1. First Column in the dataset is taken as Last Name
2. Second column as : Title + First Name which are separated using the Regex
3. Customer Class is created with instance fields of first name , last name , status and title and only constructor and not the get/set methods were created as given in the sample code [as customer object is just to store the data , we can also create the get set function for making it more useful]
4. CSV file was read and the records were stored in the list of customer objects
5. Custom exception was created which print the custom line if the status of the customer is found to be blacklisted
6. Function "createOrder" was created to take first name and last name as input and then search the record of that customer from the customers list of records and then based on the status raise custom exception or print the string that order successful.