

M. Sc.(I.C.T.) 3rd Semester Internal Practical Examination 2022-2023

Date: 21.9.2022

Subject: Data Science

Swastik Housing Finance company deals in home loans. Customer first apply for home loan after that company validates the customer eligibility for loan.

The company wants to automate the loan eligibility process (real time) based on customer detail provided while filling online application form. Income, Loan Amount, Credit History and others are the data that is asked for. To automate this process, they have given a problem to identify the customers segments, those are eligible for loan amount so that they can specifically target these customers. You need to perform Exploratory Data Analysis on the data provided to you.

Note:

Delinquency < 6 months -> Not eligible (paid the last emi since)

Credit Score < 700 -> Not eligible

Bankruptcy >=1

Dataset :credit_test.csv

Subject : Cloud Computing

A garment company maintains the record of all the all garments as

1. Garments(garmentid (pk), categoryid(fk), price, stock)
2. category (catid, categoryname)
3. Customer (customer ID, customer name, city, mobile)
4. Order(orderid pk, garmentid fk, custid fk, date.)

A) The company maintains a application which provides following information from the above data

Information of all the garments which are in stock and in the those which are ordered by customer

Note : The methods to achieve this will be authorized by a role called "CUSTOMER" which is validated from an encrypted Json Web Token

B) The company gives a separate application client for a client interface in Servlets or JSF to select the criteria category in a Textboxes in user interface and displays the result in tabular form

The display field of table should contain garment details in the stock and in ase of garments which are ordered. Mention name of customer , its mobile no, order date and the city against the garment info.

Create MSA application and execute both of them separately using payara-micro

Resource Given : domain.xml, jwttenizr.jar (token generating application), payara-micro and mysql-connector jar file