RV College of Engineering®, Bengaluru – 59
Department of Computer Science and Engineering
Database Design Laboratory (18CS53)

Requirement specification

TOPIC	Ecommerce Platform with a Loan Approval System	
TEAM	1RV18CS128	Rajath S Vasisth
	1RV18CS184	Vecha Rama Surendra

1. Hardware Specific

1. Processor: 64-bit, 2 cores, Pentium IV or higher
2. Processor Speed: 1.8GHz minimum per core
3. RAM: 2GB or higher
4. Hard disk: 2 GB free space for installation. For production use additional disk space for day to day operations.

2. Software Specification

1. Operating system: Windows 7 and above, Linux, Mac OS.
2. Programming languages: Python, NodeJS
3. Front End: HTML, CSS, JS, React.
4. Databases (Back-End): MySQL, MongoDB, Postgres.
5. Packages for Decision making: Chained Regressor/Scikit

3. Functional Requirements

1. Admin

o The admin should be able to upload new products or remove them.
o He will also be able to monitor all the EMI records of the users.
o He also has the authority approve membership of customers and oversee ongoing transactions.

2. Website

o The website should be active at all times and should perform without lag and will have access to customer details present in the database including user authentication.

- o The website is responsible for retrieving products as a search result from the database and also assigning proper delivery person and dates based on availability calculations present in the database.
- o It should also mention different products categories that are available and also enable customer input of a specified product through camera/photo for easy product identification.

3. Customer

- o Customer has his own account. Only he has the authority to access his personal information and confidential details.
- o He can at any time delete his account or place orders from the website or also alter his personal information.
- o He can also opt for a membership in which case he will have the authority to choose two more cards linked to different bank accounts which will be managed by the ecommerce website owners.

4. Order management

- o As soon as the order is placed the website should check for payment confirmation and once the payment is confirmed it should show the customer the Transaction ID and the final order products as well as automatically mail the details to the customer.
- o The details should contain Tracking Info for the order placed as well as the receipt for the order.
- o In case of EMI transactions it should send timely remainders to the customer through mail automatically.
- o During order placement the website itself should recommend the best payment method for the customer considering payment methods as a part of membership as well as personally added payment methods.

5. Authentication

- o Here there is separate authentication for each user (customer, admin), according to their roles and a separate interface is presented to each one.
- o Administrator authorization permits restricted access and therefore is done through company given email id's only.