E-commerce Aggregation System

Abstract

E-commerce aggregation system provides a centralized access to all the products from the nearby shops of a customer. It enables fast delivery of the products. Customers don't have to worry about selecting the shops to buy the products from. The system takes care of choosing the products from the shops according to specific metrics like location and rating. Customers can choose custom locations to which the products can be delivered. Shops with poor rating will be least preferred for purchasing the products.

The system focuses on consumer products like stationary items, grocery and home appliances. Shop owners can easily add products by adding from the already existing list or by creating their own custom ones. When an order is made by the customer, a notification will be sent to all the nearby shops which has the specified products. The shops that accepts the order will be selected on the basis of their rating. The selected shop will be notified with the order details.

Some of the core functionalities offered are:

- Shop Registration
  Shops are able to register themselves. They can add their products to the system. It is mandatory for every shop to have a location and it remains static unless changed by the shop themselves

- Customer Registration
  Customers have the freedom to look at the various products but can only shop after logging in. Customers have the option to change their location anytime. They are also provided with

earlier saved locations. Customers can add multiple products to their cart.

- Product Management
  Products are added by the shops. Each product is different. Even a small difference like color will classify the product as a separate one.
  Products are also visible under categories, which will help the customer find the products easier.

- Admin Functionality
  Administrators do not require any location, to be registered on the system. Administrators can add, remove and modify the details of shops and customers. They cannot alter the reviews associated with the shops and products.

- Location System
  Location system is one of the core components of this aggregation system. Every shop and every customer will have a location associated with them at any point of time.
  As the location changes, the products shown to the customer, as well as the shops, changes. The products are shown to the customer according to the location of the customer as well as the rating of the products and shops.

- Review System
  Customers can review the products that they have ordered. The system stores the review under the corresponding product as well as the shop from which it has been bought.

The review system is a main component which decides which products to display and from which shops to buy from.

- Shop Selection
  The products selected by the customer are bought from shops under a specific perimeter around the customer. These shops are selected according to their individual ratings.

- Payment System
  Customers can pay the amount for the products through the payment gateway integrated in the system itself. The customers will get an email confirming the purchase of the products.