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Shopping Basket
Case Study

1. Introduction

In this case study, you will design and develop an application about Shopping Basket, you will practice concepts of object oriented, database, php and Laravel programming.

2. Prerequisites

- PHP Programming, and Object Oriented.
- Laravel Development.
- HTML, CSS and Javascript.
- Bootstrap and jQuery.

3. Deliverables

- GIT Hub Repository containing the project code.
- An email telling the client that you finish the project.
- A simple user manual how to use system backend.

4. System Functions

- Administrator Role:
    - Create, Delete, Update product categories.
    - Create, Delete, Update Products.
- Customer Role:
    - Browse Products.

- Create and Delete Shopping Basket.
- Add and Remove Products in Basket.
- Confirm Purchasing.

5. System Description

- Administrator creates product categories (code, name, max_discount_pct).
- Administrator creates products (code, name, stock_quantity, price, discount_pct).
- Each product is assigned to one or more categories and category may have no products assigned to it.
- Customer creates a shopping basket (number, date, status).
- Customer can't create a new basket if he has a hanging (not confirmed nor cancelled) basket. In this case he can continue with it.
- Customer adds or remove products to his basket and enters the ordered quantity. Quantity must be less than or equal the stock quantity.
- No change in product stock until basket has products and purchase is confirmed.
- if basket has at least one product, net price is calculated automatically and customer can confirm the purchase. Otherwise basket should be cancelled with no change in the product stock.
- If purchasing is confirmed an invoice (inv_number, inv_total, inv_discount, inv_net) will be issued for each basket.
- All discount are defined as a percentage (pct) of price.

6. Additional Work:

- User (u_name, u_password, is_admin) logs in as administrator or customer.
- Some forms to browse statistical information for administrator.
- Some forms to change in categories and products.
- Administrator can act as customer.