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E-Commerce Website

Under the Guidance of

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E-Commerce Website [WeCare.com]

Abstract

The project is an online shopping system which allows the customers to purchase and place order to goods online from a store that aids online customers. The e-commerce website displays all the items, which have been registered by the stores online to expand their business, and orders, that have been placed by the user. The system accepts the customers' proposal of purchase(s) order for the item(s). the customer is also allowed to make alterations in the order which he/she has placed. While ordering goods, the items selected for purchase would be placed inside a virtual shopping cart. When the same item is selected more than once then the count for that item will be incremented by the number of items the user selects it or till the count reaches a certain threshold. The customer can view his/her virtual shopping cart at any time in order to ensure his/her list of items and its contents can be modified by the user accordingly. Once the customer plans to submit the order of items, the customer can print the objects of his/her cart to get a hard copy of the transaction.

Problem Statement

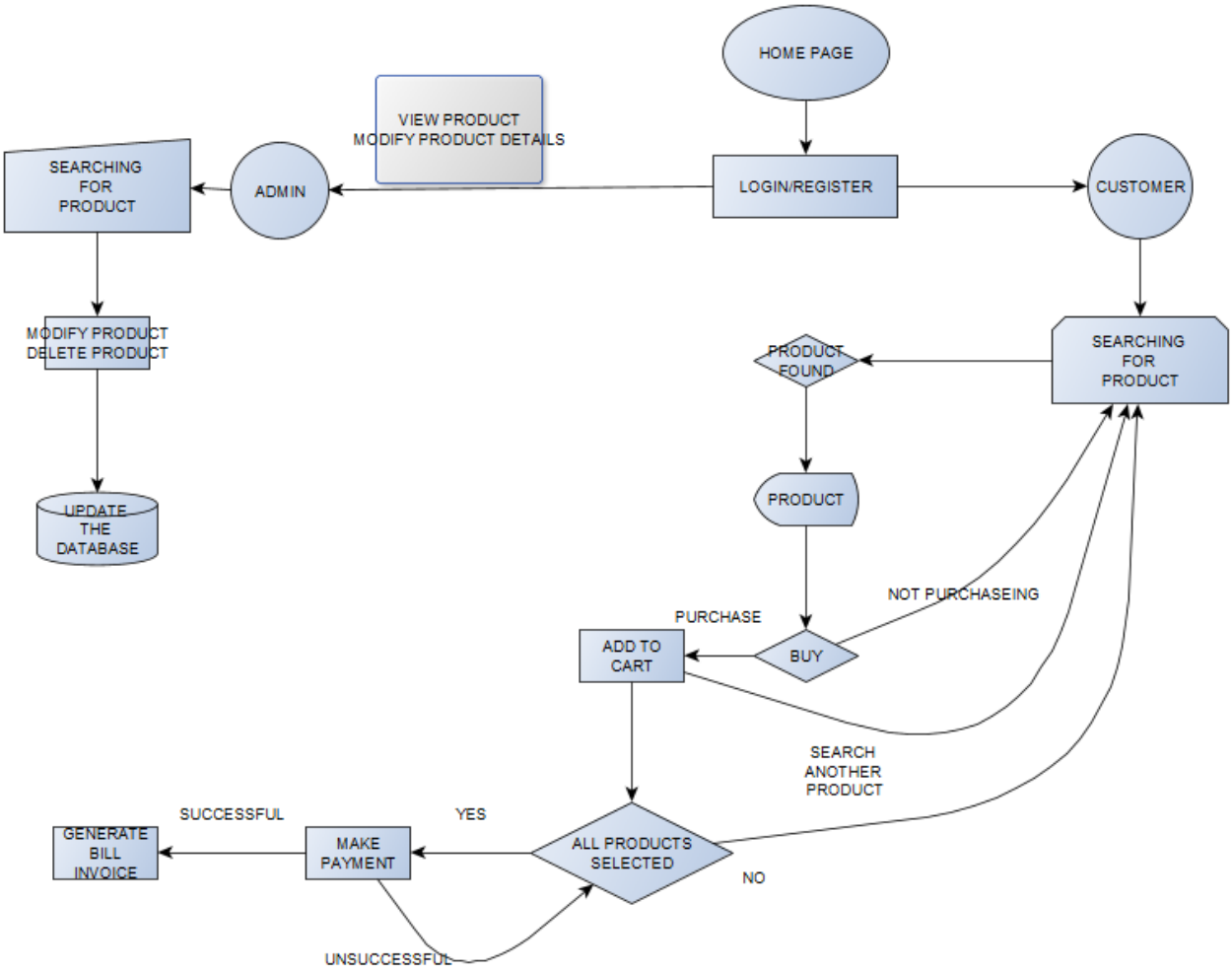
We are keeping the following problem statements in mind:

- Considering the Pandemic situation, we are developing this to help the small businessmen to sell their product and have a small source of income.
- We have also kept the PM's Vocal4Local Abhiyan in mind which is meant to help the Local people reach out to the other parts of the nation to spread awareness about the diversity and quality of the Indian Products.

Process Flow Diagram

A process flow diagram shows combination of a series of activities which convert input into an output.

So, first of all our website will be having a Home Page followed by a Login Page. We also have other secondary pages for Contact and Project Team. Next, the User and Admin will login through the User Page for any process further. If the Customer is not a registered member, then he/she will have to register with the website in order to login and purchase any product. The Customer will also need to provide an address which the website will be using for delivering the product(s) to. The Admin is provided with full control over the website using which he/she can add, remove and modify product(s). After the Customer logs-in to the website, he/she will be redirected to the Home Page where he/she can view products of all categories. The user can go to the search bar and search for the product which he/she wishes to buy. We will display the details of the product using which the user can check if and if satisfies, he can order it. The interesting part is that we will be displaying the products of the category along with the searched item when the user searches for a product which he wishes to order. The product(s) selected will be added a cart. After the customer is done with selecting all the products, he/she can proceed for check-out will be further redirected for payment. In the check-out the user will be confirming the address and ,if required, will be updating the address for delivery. In the payment section, the user will be asked to choose the mode of payment and will be entering all the required details for the payment. Once confirmed, the customer will confirm and place the order and a printable payment invoice will be generated and given to the user.

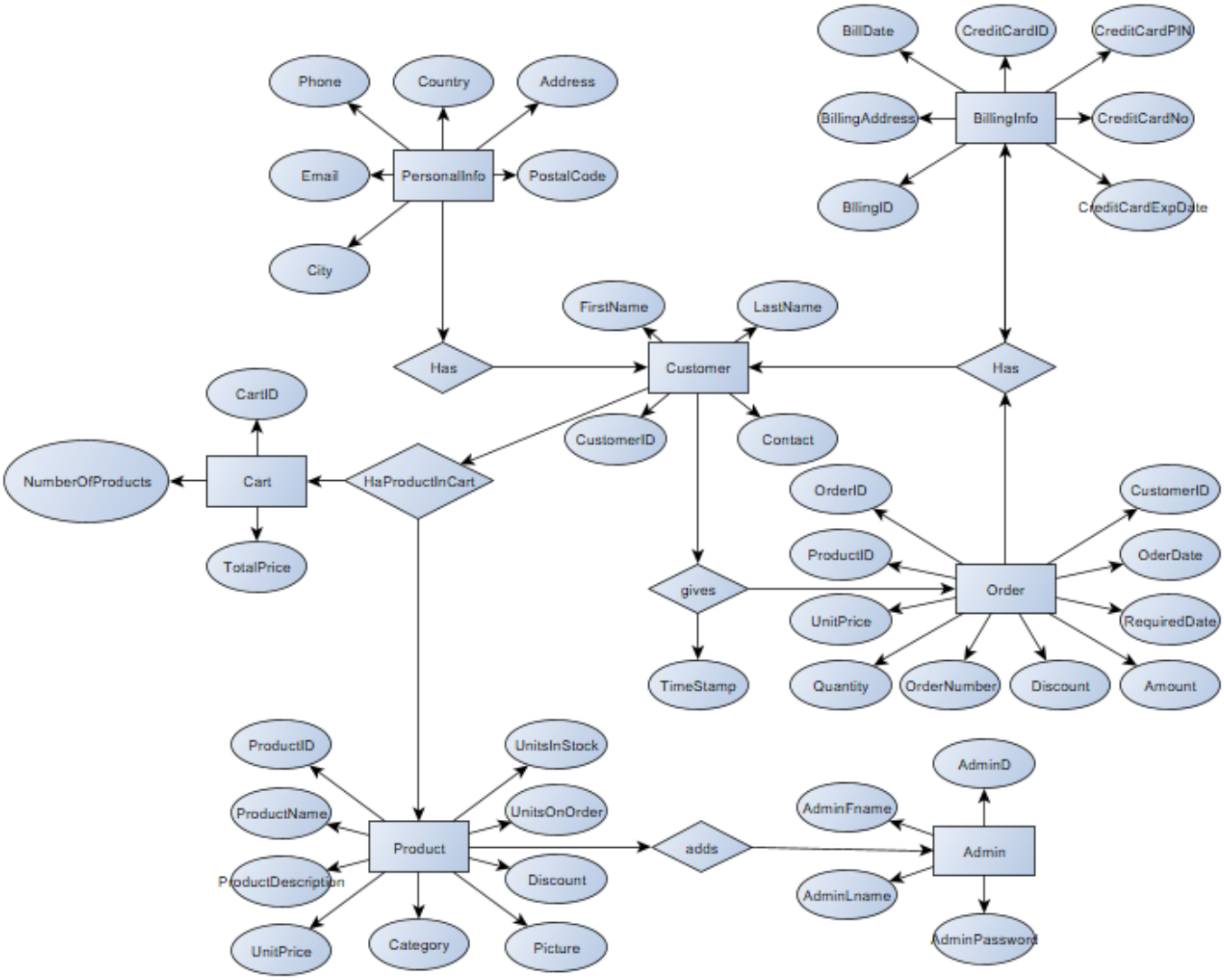


Modules

The concepts and software which are being used for the project are:

- Concepts:
  - Web Development
    - HTML
    - CSS
    - JavaScript
    - PHP
    - jQuery
- Software:
  - Apache Server (To run the website)
  - Visual Studio Code, Sublime Text Editor, Atom, etc. (Compiler and Editor)

ER Diagram



This ER(Entity Relationship) Diagram represents the model of our e-Commerce website. The Entity Relationship diagram shows all the visual instrument of database tables and the relation between the entities.

Description of Ecommerce Database:

- Each entity (Customer, Admin, Personal_info, Order, Cart, Product, Billing) contains Primary Key.
- Customer entity has CustomerID, Name, Contact as attributes and has one-to-one relationship with Personal_info and one-to-many relationship with the Order. Personal_info contains Name, Email, Country, Address, PostalCode, City as its attributes. Order contains orderid, Customerid, Date, Price, Quantity, Discounts as its attributes.
- Admin entity has Admin_Name, AdminID, Password as attributes and it has one-to-many relationship with Product which contains Productid, ProductName, ProductDescription, price, stock, UnitsOnOrder, discount, picture, category as attributes.
- Cart has one-to-one relationship with order and it contains CartID, products and total price as attributes.
- Billing is derived from Customer and Order which contains Address, BillingID, Cardno., Cardid, Cardexpdate, Billdate, BillingAddress, CardPin as attributes.