PROJECT REPORT
DBMS
E-COMMERCE:-ONLINE SHOPPING

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The main objective of this project is to create an efficient online shopping website that allow its users to purchase variety of cloths apt for day to day occasion at feasible rate .
SELLER can upload it's Products (Description,Quantity,Product type, etc).
Buyer can either purchase a product or cancel his order by clicking on Remove button.

- OBJECTIVE:-Need of Online Shopping

- Convenience-Since everyone is leading busy life now a days, time means a lot to everyone. Also there are expenses for travelling from house to shop. More over the shop from where we would like to buy some thing may not be open 24*7*365

- Better prices-Retailers have discovered that they can meet the needs of their customers, but with less operational expense, with an online location and not a physical store.

- More variety and Price comparisons-More number of sellers selling their products so customer can compare and get their product at affordable rates.

- No crowds-No need to wait in a queue for your payment or outside a trial room.

- The basic concept of the application is to allow the customer to shop virtually using the Internet and allow customers to buy the items and articles of their desire from the store.

- The information pertaining to the products are stores on an RDBMS at the server side (store). The Server process the customers and the items are shipped to the address submitted by them through SIGN UP form. The details of the items are brought forward from the database for the customer view based on the selection through the menu(HOME PAGE)and the database of all the products are updated at the end of each transaction(i.e product quantity get decreased or increased by BUY option and REMOVE option) .

- The shopper would be drawn to login to the website by creating an account,view products,add products in the cart to buy it later,and eventually make payment for the goods .

BRIEF OVERVIEW OF THE TECHNOLOGY:-

- FRONT END:
  HTML , CSS AND BOOTSTRAP
- BACK END:
  PHP AND SQL

PROJECT INSIGHT

The Server process the customers and the items are shipped to the address submitted by them through the login form. The application is designed into two modules first is for the customers who wish to buy the articles. Second is for the retailers who maintains and updates the information pertaining to the articles and those of the customers. The application which is deployed at the customer database, the details of the items are brought forward from the database for the customer view based on the selection through the menu and the database of all the products are updated at the end of each transaction.

ENTITIES USED:-

Our website will handle large amount of data related to all the products,seller information and buyer information. We will have to make entity set to store all the data in a proper way. We have to store 3 kinds of data mainly :

- SELLER DETAILS
- CUSTOMER DETAILS
- PRODUCT DETAILS
- PURCHASE DETAILS
- CART DETAILS

Entity relation for a seller to upload a product-

1. Seller_info (E) :-A **seller** disclosure helps protect the **buyer** from defects or problems with the product they have bought .

- seller_id (INT)
- owner_name (VARCHAR)
- dob (DATE)
- gender (ENUM)
- address (VARCHAR)
- phone_no (VARCHAR)
- email (VARCHAR)
- company_name (VARCHAR)
- gst_no (VARCHAR)
- password (VARCHAR)

2. Product_info (E) :-well described information helps customer to know about the product they are going to buy so there is full transparency.

- product_id (INT)
- pro_name (VARCHAR)
- product_type (VARCHAR)
- pro_price (INT)
- description (VARCHAR)
- quantity_available (INT)

3. Products(R):-relation between the Product_info and Seller_info .

Entity Relation for adding a product to Cart:-

1. Customer(E):-it contains the information about the customer so that it is easier to contact for delivery of its product.

- dob (DATE)
- gender (ENUM)
- address (VARCHAR)
- phone_no (VARCHAR)
- email (VARCHAR)
- cust_id(INT)
- password (VARCHAR)

2.Cart(E):-it contain all the products that a customer is going to buy .

- quantity
- time
- amount(PRICE)

3.choice(R):-Relation between Cart and Customer is choice or customer liking of any product.

Entity-Relation for moving a product to cart:-

1.Cart(E):-

- amount
- time
- quantity

2.Product_info(E):-

- pro_id
- image
- pro_price
- desciption
- product_type
- quantity_available
- pro_name

3.Order(O) :-Relation between Cart and Product_info

Entity-Relation products ,purchases and customers:-

1.Product-

- Product_ID
- Seller_ID
- Pro_type
- Image
- Pro_name

- quantity_available
- pro_price
- Description

2.Purchases:-

- Pur_ID
- Cust_ID
- Seller_ID
- Product_ID
- Purchase_Amount
- Pur_date
- Status
- Quantity

3.Customer :-

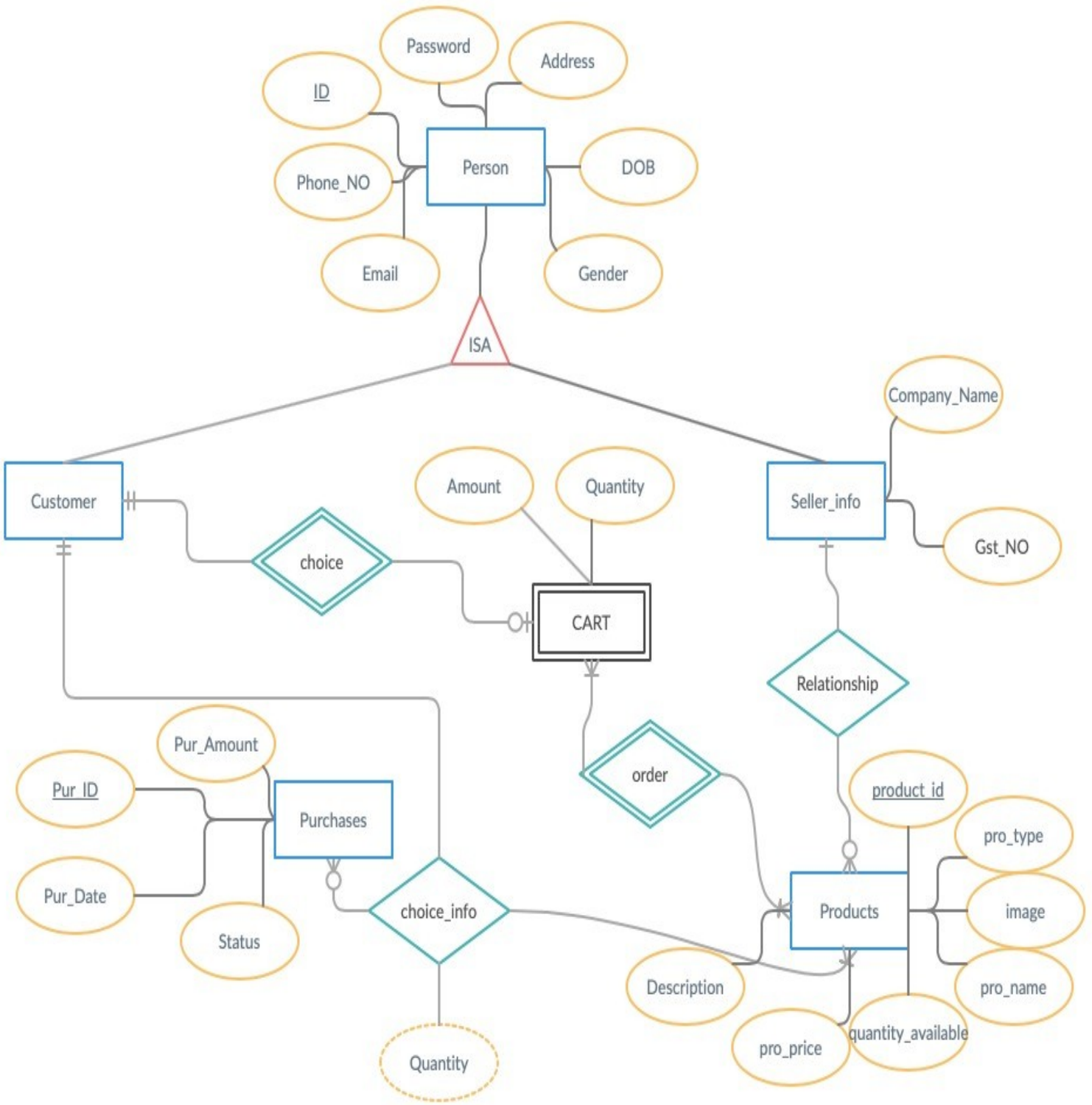
- dob
- gender
- phone_no
- email
- cust_id
- password

4.Choice_info:-They have ternary relationship.

GENERALIZATION:-

It is like a bottom-up approach in which two or more entities of lower level combine to form a higher level entity if they have some attributes in common.
Here,customer and seller basic information is generalized into a single entity person as shown in the final ER-Diagram.

Complete Entity-Relation Diagram



TRANSFER ENTITY REALTIONS INTO SET OF TABLES:-

Customer- Cust_ID,Password,Address,DOB,Gender,e-mail,Phone_No
Seller-Info- Seller_ID,Password,Gender,Address,DOB,email,Phone_NoCompany_Name,GST_no
Product- Product_ID,Seller_ID,Pro_type,Image,Pro_name,quantity_available,pro_price,Description
Purchases- Pur_ID,Cust_ID,Seller_ID,Product_ID,Purchase_Amount,Pur_date,Status,Quantity
Cart- Cust_ID,Product_ID,Quantity,Amount

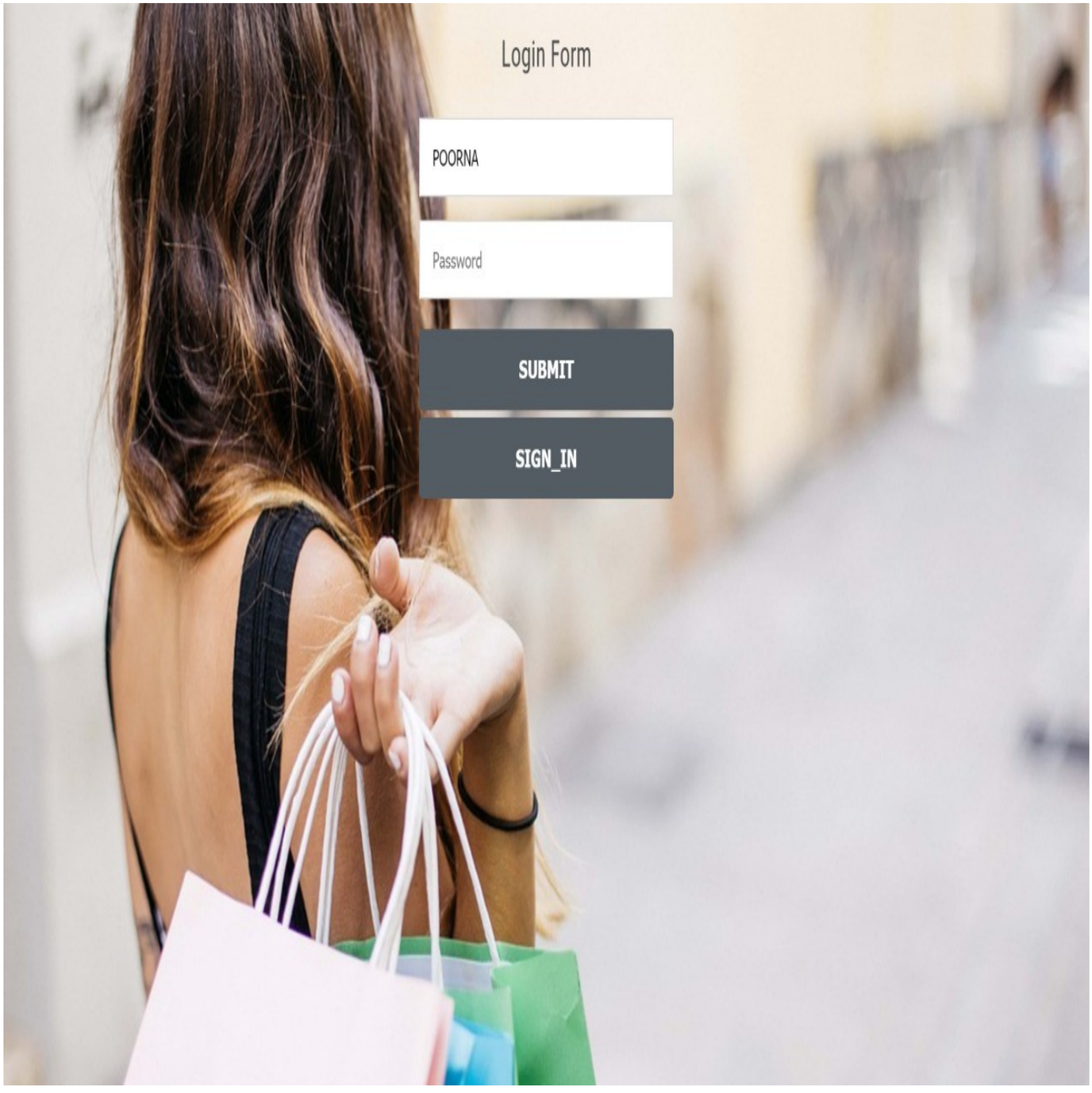
FEATURES AND FUNCTIONALITY OF OUR WEBSITE

CUSTOMER REGISTRATION

In order to view products and eventually buy them ,For this, he/she would be prompted to a signup page. The customer would have to enter his/her important details like address(where the delivery has to be done), phone number(to contact in case of any query in regard of delivery), date of birth ,etc.

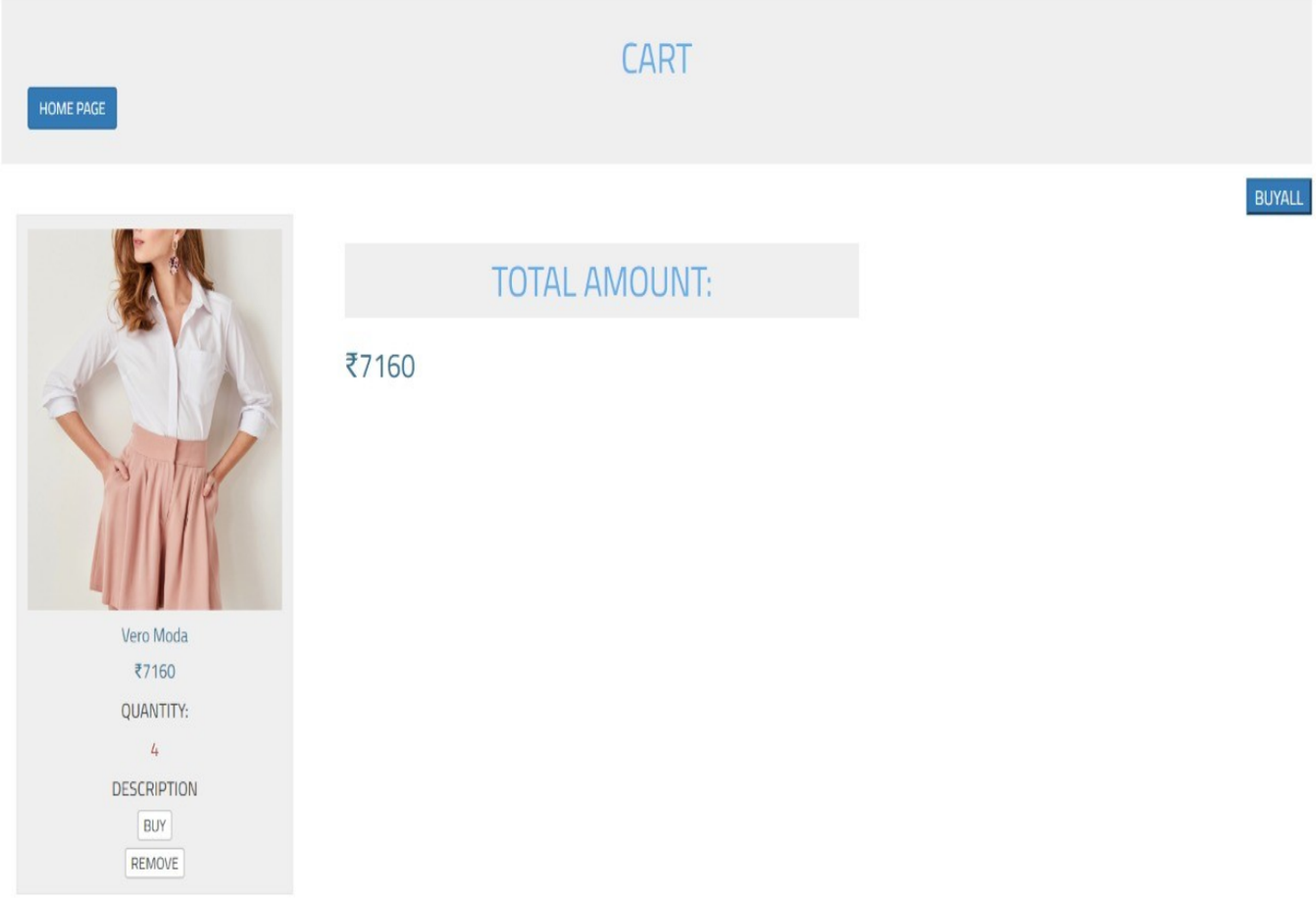
LOGIN FORM

All the data from sign up insertion would be entered into the table with the help of sql insert query.
Next the customer inputs his username (which is unique) and password which will be used for subsequent logins. We also store the password after hashing using PHP.



CART PAGE

When the customer finalises a product, he would be provided an option of adding the product to the cart. Each cart would too have a product id and customer id as a foreign key so as to uniquely identify the cart for a particular user.
Total quantity and price of each item would also be calculated accordingly and thus the corresponding record of cart would be added to the table using the sql insert query.



HOME PAGE

This page will display all the products that are saved in our database of SQL file[XAMPP File].All the products are added simply by insert statement .
This page also has two major category to filter the products(MALE And FEMALE) that are displayed by SELECT , WHERE and ORDER BY clause .
Every Product has product_type attribute that is mainly of two type Women and Men(Clothing appropriate for or type)