

SAHARA

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# Sahara: E-commerce website

DATA BASE MANAGEMENT SYSTEMS PROJECT

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CS F212

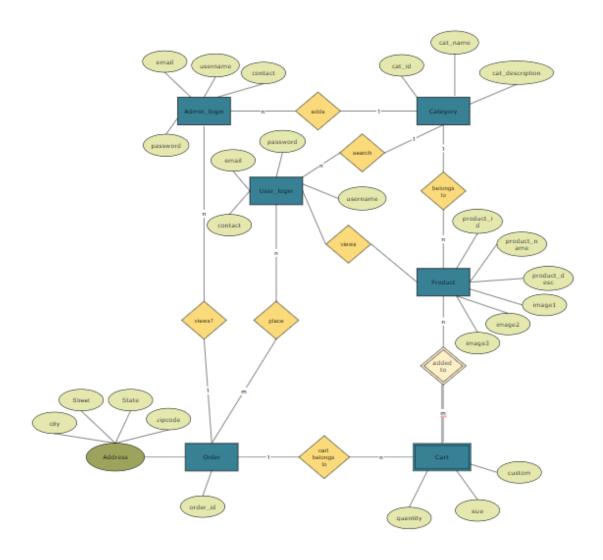
## **Abstract**

- We have implemented an E-commerce Management System which primarily allows users to buy their desired products through the internet.
- This system allows the user to select from a wide range of products from a variety of sellers.

The Scripting Language used is PHP and the Database System is MySQL.

We have created all of our tables in MySQL and connected it to the user interface using PHP.

## ER Diagram:



#### Relational Schema:

After converting to BCNF, the following are the tables and functional dependencies:

- Admin\_login(<u>email</u>, contact, password)
   Email -> username, contact, password
- 2) Admin\_login1(contact, username)

Contact -> username

- 3) Category(<u>cat\_id</u>, cat\_name, cat\_description, admin\_email(fk)) Cat\_id -> cat\_name, cat\_description, admin\_email
- 4) Product(<u>product\_id</u>, product\_name, product\_desc, image1, image2, image3, cat\_id(fk))

Product\_id -> product\_name, product\_desc, image1, Image2, image3, cat\_id

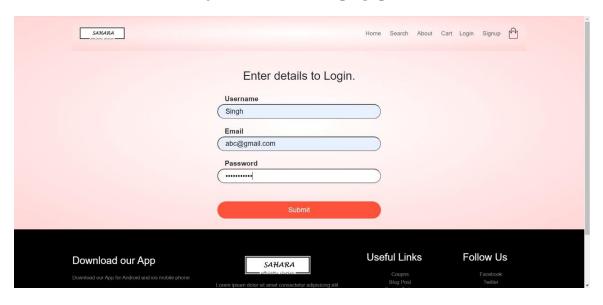
- 5) Cart(product id, custom, size, quantity)
- 6) Order(<u>order\_id</u>, Street, zipcode, product\_id(fk), admin\_email(fk))

Order\_id -> street, zipcode, product\_id, admin\_email

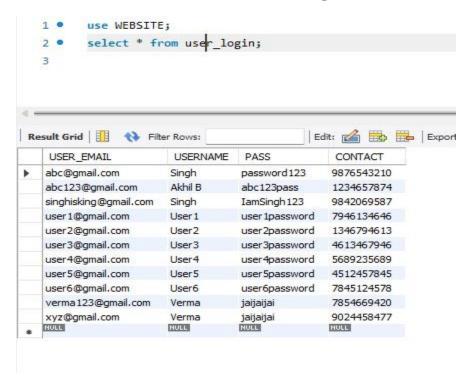
- 7) Order1(zipcode, state, city)
  - Zipcode -> state, city
- 8) User\_login(<u>Email</u>, username, contact, password)
  User\_email -> username, contact, password
- 9) Place(user email,order id)

## Layout – User Interface:

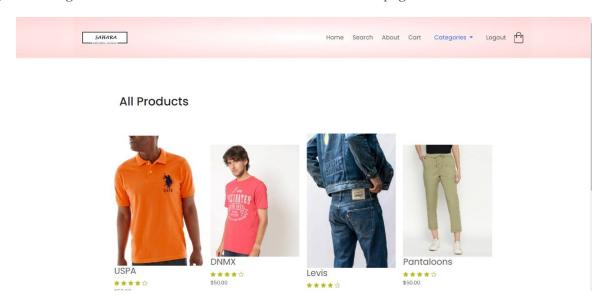
1) As the user enters the site, they will be led to the login page.



The details of the users are stored in the user\_login table as shown below:

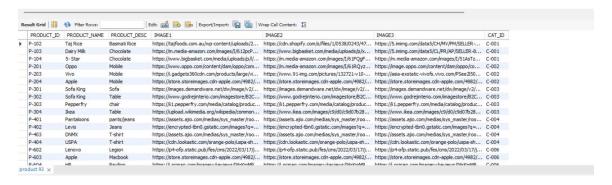


2) If the login is successful, the user is directed to the Home page:



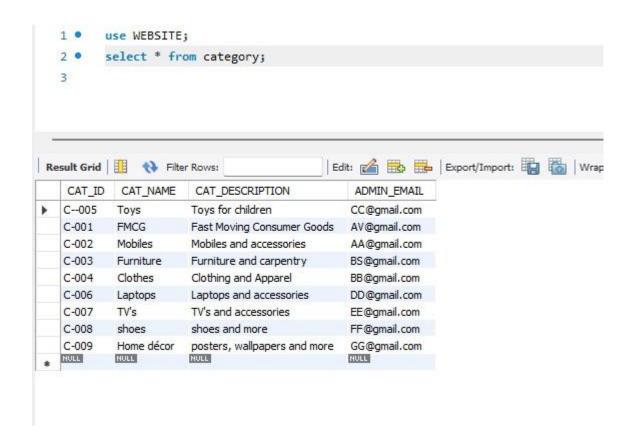
The products are stored in the products table:

```
1 • use WEBSITE;
2 • select * from product;
3
```

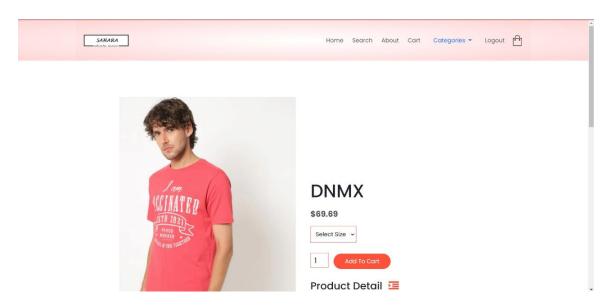


The product table contains the details of the products.

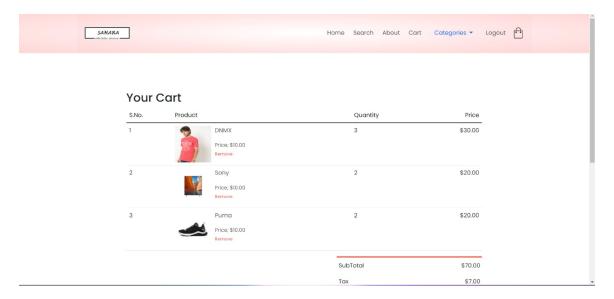
The products are divided into various categories, stored in the categories table:



3) The user is free to select any product on the home page, or the user can also select particular products by going into the categories list in the navbar. Once the user clicks on the product, the product description appears:



4) The user can now add products to the cart. After adding to the cart, the user will be redirected to the cart page:

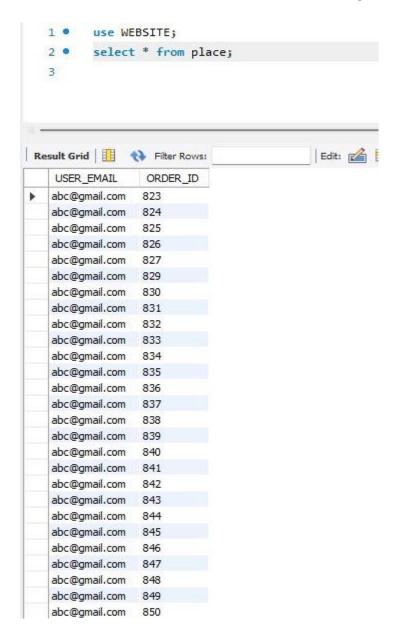


5) Once the user places the order, they have to fill in their details and address in the next page:



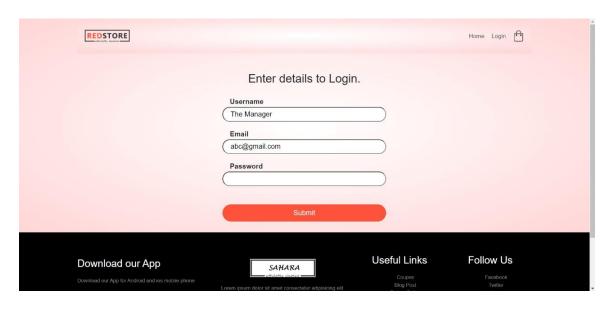
The user then enters their details and places the order.

To normalize the schema, we use an additional table place:

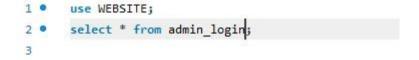


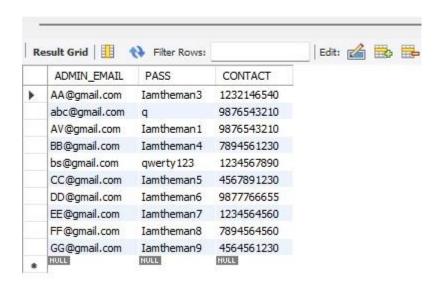
## Layout – Admin Interface:

1) The admin enters the admin login details in the login page to login:

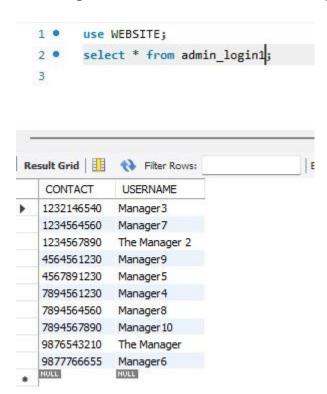


The details of the admin are stored in admin\_login table:

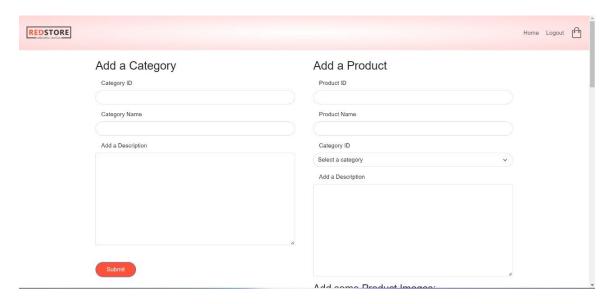




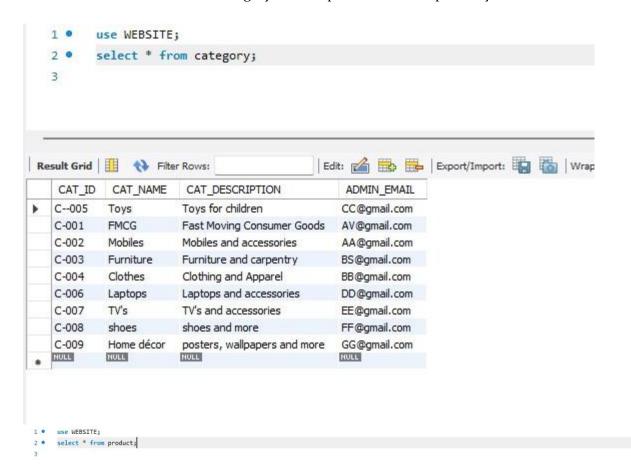
admin\_login1 table is also created for normalizing into BCNF:

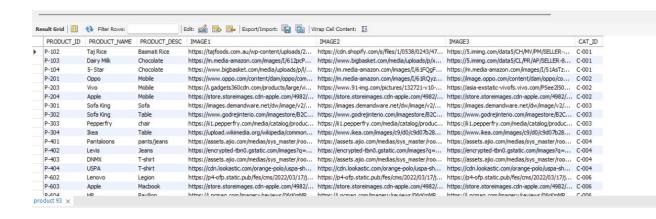


2) Once the admin logs in, they are redirected to the admin page where they can add categories or products:



These details are stored in the category and the product table respectively:





3) The admin can also view the list of orders done on the site:

Sno	Order ID	Product ID	User Email	Street	City	Zipcode
1	828	P-103	abc@gmail.com	afa	afvdV	123455
2	829	P-103	abc@gmail.com	afa	afvdV	123455
3	830	P-203	abc@gmail.com	afa	afvdV	123455
4	831	P-402	abc@gmail.com	afa	afvdV	123455
5	832	P-602	abc@gmail.com	afa	afvdV	123455
6	833	P-603	abc@gmail.com	afa	afvdV	123455
7	834	P-103	abc@gmail.com	afa	afvdV	123455
8	835	P-203	abc@gmail.com	afa	afvdV	123455
9	836	P-402	abc@gmail.com	afa	afvdV	123455
10	837	P-602	abc@gmail.com	afa	afvdV	123455
11	838	P-603	abc@gmail.com	afa	afvdV	123455
12	839	P-103	abc@gmail.com	afa	afvdV	123455
13	840	P-203	abc@gmail.com	afa	afvdV	123455
14	841	P-402	abc@gmail.com	afa	afvdV	123455

This corresponds to the cart\_order table:

```
1 .
           use WEBSITE;
   2
           select * from cart_order;
   3
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ORDER_ID
                STREET
                          ZIPCODE
                                                   ADMIN_EMAIL
                                                                  USER_EMAIL
                                    PRODUCT_ID
    823
                afa
                         123456
                                    P-103
                                                  AV@gmail.com
                                                                 abc@gmail.com
    824
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    825
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                                                  DD@gmail.com
                afa
                         123455
    848
                                    P-603
                                                                 abc@gmail.com
    849
                         123456
                                    P-701
                                                  EE@gmail.com
                                                                 abc@gmail.com
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