SUBJECT: Database Management Systems

Experiment No.: 10

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About Project:

In our previous case study, we identified three main drawbacks in approaching a fashion website and proposed solutions. Our project aimed to enhance the current online fashion management system by utilizing databases and addressing industry-specific user experience gaps. To achieve this, we implemented a customer login feature that tailors the website based on user preferences stored in the database.

One of the identified drawbacks was the disregard for users' body types, shapes, and sizes when displaying items. Hence we made the changes such that for a particular user it only displays the relevant items to him. To rectify this, we organized product information in the database, including Product ID, Product Name, Product Category, Price, and Stock. Through backend management, we can update existing products or add new items, ensuring a user-friendly interface that provides accurate information about products.

Another drawback involved discrepancies between inventory and the website database, leading to shipment and tracking issues.

To address inventory and shipment issues, we introduced a "login" system for delivery partners, storing key details like ID, Product Name, Delivery ID, Expected Delivery Date, Stock Left, and an Auto Increment ID. Users can view, add, edit, save, or delete entries. The estimated delivery date is chosen through a calendar, and stock quantities are recorded numerically. This setup enables regular stock audits, helping identify peak stock-out periods and enhancing overall user experience.

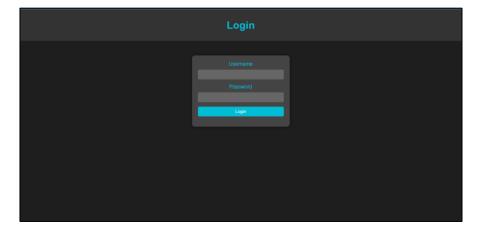
Home Page

Here we have 3 options of – Shop (as a customer), Manage Products (as a product manager), manage deliveries (as a delivery manager).



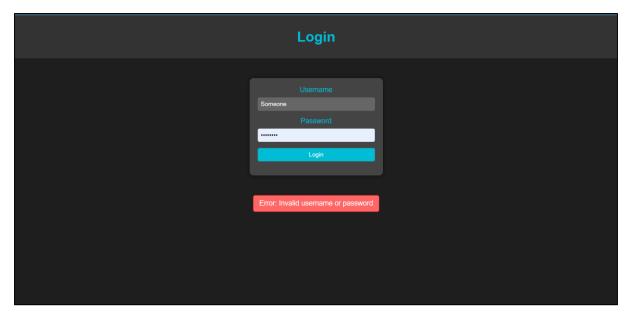
Manage Products

As soon as we click the manage products section, we are directed to the dark themed page



Now we need to enter the login details: the user id and password

As you can see the password is encrypted.

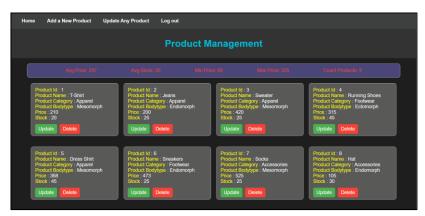


When you enter wrong details

On correct id and password it would co-relate it with the database in SQL to verify and hence enter the user.

mysql> select * from User;							
User_Id	Username	Password	Age	Phone_No			
1	Hrishikesh	Change	19	701245			
2	Aarav	Secret	25	789012			
3	Eshaan	P@ssword	22	456789			
4	Aaradhya	Hidden	28	123456			
5	Vihaan	Access	23	987654			
6	Shraddha	Locked	20	345678			
+			+	+			
6 rows in set (0.00 sec)							

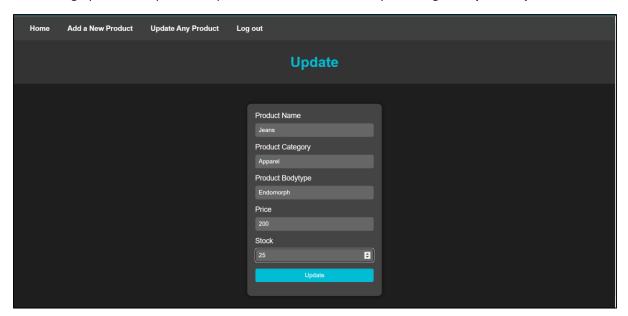
On entering the valid data we now enter the main site displaying all the details i.e **READ operation**.



The database

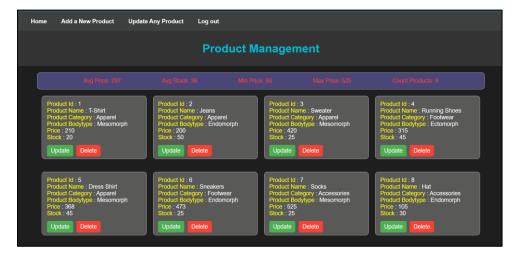
Product_id	Product_Name	Category	Price	Stock	Bodytype
!	T-Shirt	Apparel	+ 210	 20	Mesomorph
2	Jeans	Apparel	200		Endomorph
3	Sweater	Apparel	420		Mesomorph
4	Running Shoes	Footwear	315	45	Ectomorph
5	Dress Shirt	Apparel	368	45	Mesomorph
6	Sneakers	Footwear	473	25	Endomorph
7	Socks	Accessories	525	25	Mesomorph
8	Hat	Accessories	105	30	Endomorph
9	My Sweater	Apparel	60	60	Ectomorph

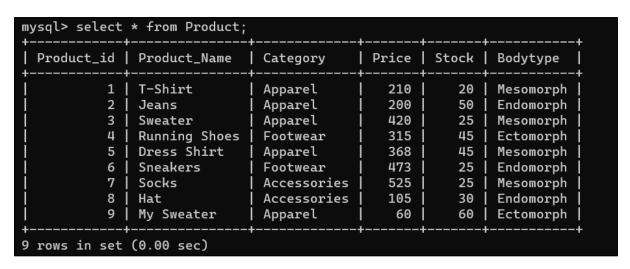
On clicking update on a particular product here Jeans. Thereby showing the **Update Operation**



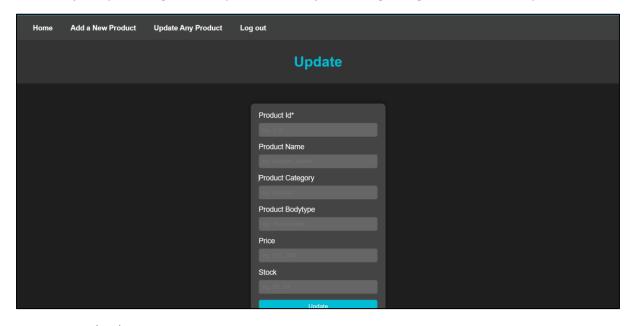
Now can modify the data as per what we want (here increased the stock to 50)

Change reflected on the main page as well as the database

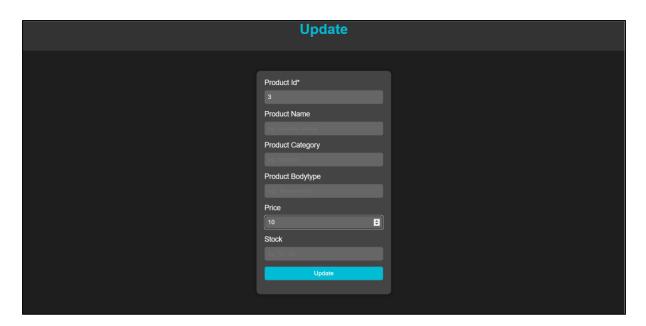




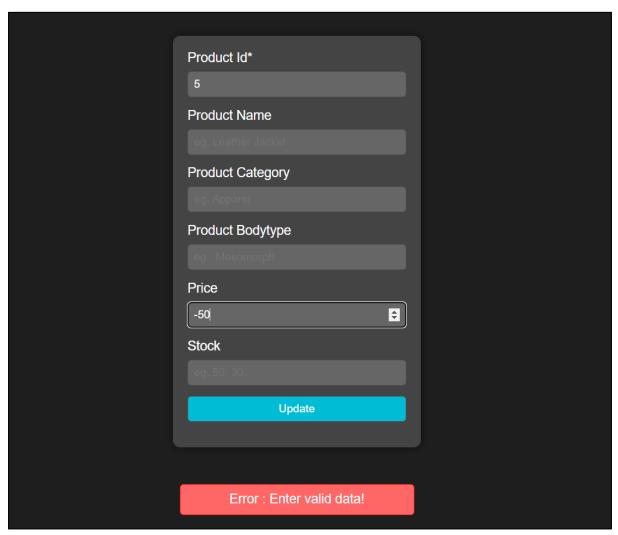
On clicking **Update** any product we have the power to change the values for any product in the database just by entering the valid product id and just making changes to the necessary data.



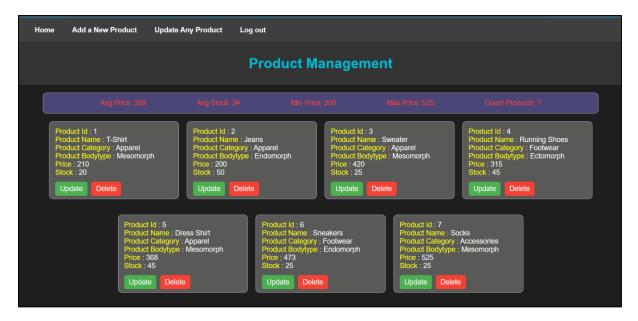
On entering the data



On entering invalid data an error is thrown



Now well perform the **deletion operation** by pressing the delete command and we can see the changes in the database as well as the main page

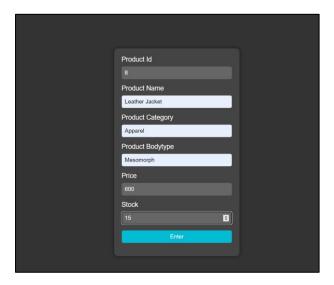


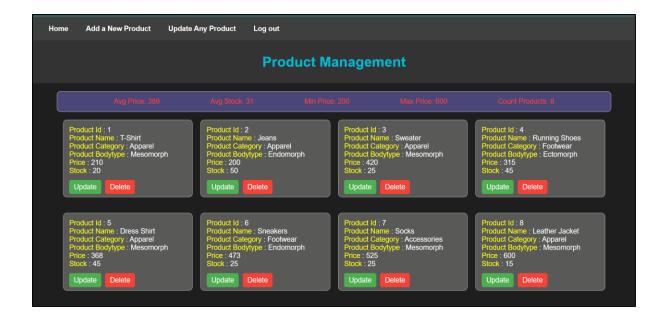
Point to note that we can see the statistics change



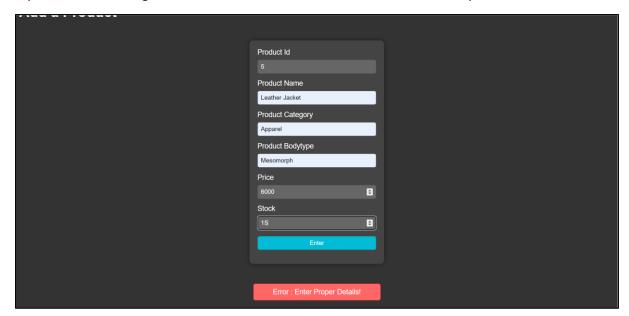
Now we will add a product i.e perform the **Add Operation**

Add the necessary details



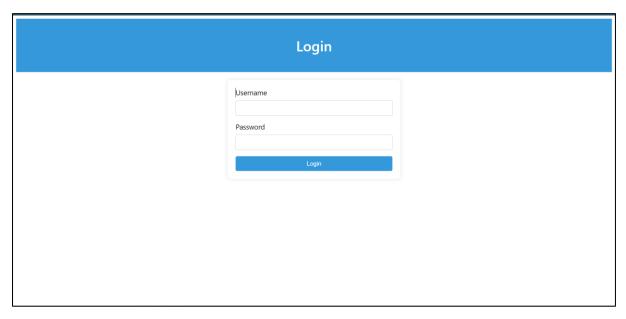


If you enter the wrong details i.e. here it's the same Product Id which already exists.



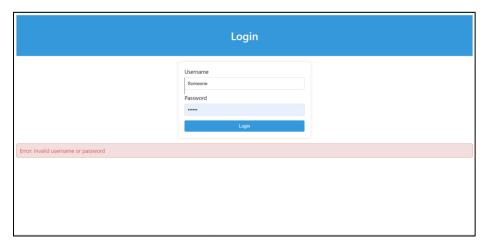
Shopping

As soon as we click the Shop section, we are directed to the light themed page



Now we need to enter the login details: the user id and password

As you can see the password is encrypted.



When you enter wrong details

On correct id and password it would co-relate it with the database in SQL to verify and hence enter the user.

```
mysql> select
             * from customers;
 cust_id
                         password
                                     bodytype
            cust_name
                                                  phone_no
            Hrishikesh
                                     Mesomorph
                         Change
                                                  789987
                          password
            Shraddha
                                     Ectomorph
                                                  467898
            Rajesh
                          hidden
                                     Endomorph
                                                  789545
3 rows in set (0.00 sec)
```

On entering the valid data we now enter the main site displaying all the details i.e **READ operation**.



This is for customer Hrishikesh a Mesomorph. Therefore as a way to overcome the drawback the relevant products ones for Mesomorph are shown. This is the rectification of one of the drawabacks that we showed.

Similarly for Shraddha i.e. Ectomorph



Similarly for Rajesh i.e Endomorph



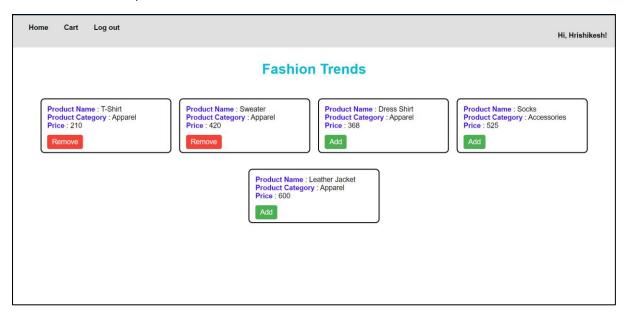
This enables us to solve the major problem. Reading differently for different users.

Also we are hiding the unnessary information from the user that is not relevant to him

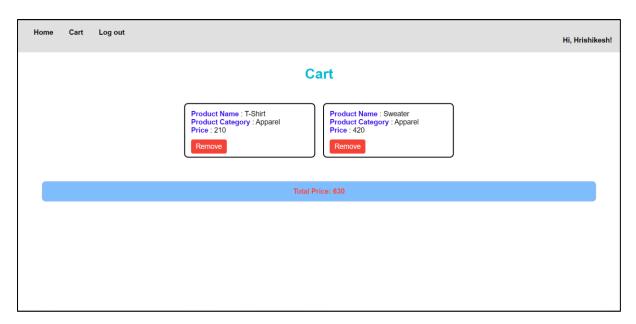
We are using the subqueries to combine the data of products and user to help us build a powerful website.

When we click add for one Hrishikesh

We have added two products for him.



His cart:



The SQL table cart

```
mysql> select * from cart;

+-----+

| cart_id | cust_id | Product_id |

+-----+

| 1 | 1 | 1 |

| 1 | 1 | 3 |

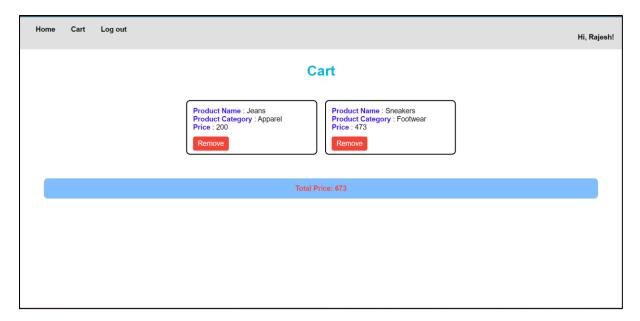
+-----+

2 rows in set (0.00 sec)
```

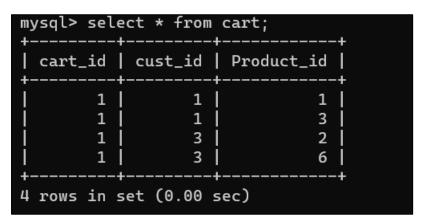
Now we add some products for Rajesh



His cart



The SQI database:



As we can see the data is updated for the different user.

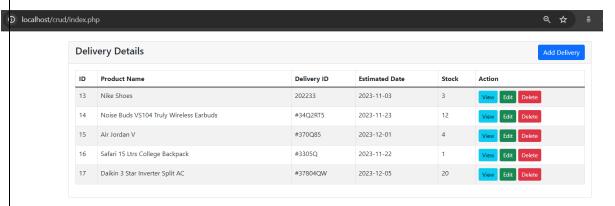
This showcases the powerful use of sub queries and making use of the POST method in the code that we have used to make the cart we take in data from 3 table namely the Customers, Cart and Products which corelates to the same one as used in the product management.

Delivery System

The Delivery Management System has beeb create so that e-commrce platforms can help the delivery workers to track products and their estimated delivery time efficiently.

The Process: Created a simple tracker for the team to add details, edit and view but at the same time added constraints so as to not violate any basic details such as stock being negative or delivery date being behind the current date.

1) Main Page of the Delivery System where options to create, read, update and delete (CRUD) are present



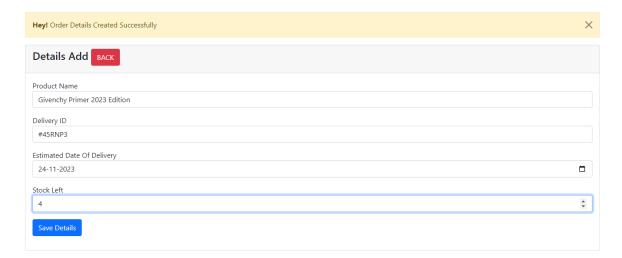
2) CREATE:

The ability to add details to the table

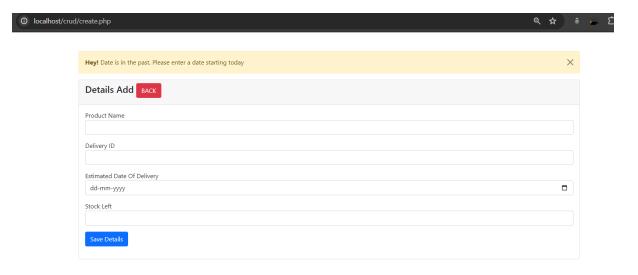
Entries and constraints:

- Primary Key ID such that it auto-increments every time a new entry is created
- Product Name
- Delivery ID
- Estimated Date-> Constraint: The eod should be after the current date
- Stock Left -> Constraint : Should be 0 or greater

On Creation Of A Table, A message alerting successful creation is displayed



Else if the date of creation is previous to the current date, a automated message for the date to be change can be seen below



2) Read

A View method helps to read all the details about the delivery flexibly.



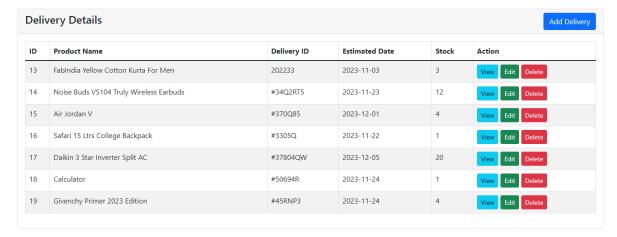
3) Edit Function

Helps to update the details in case of any error or changes required such as delaying the delivery time or incrmentingthe stock present.



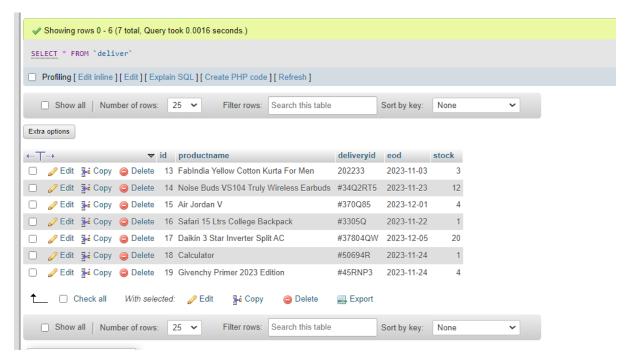
4) Delete Function

The delete button deletes the details and drops the tuple form our table. This is quite efficient to remove completed orders and bind them to the delivered products.



Working In phpMyAdmin:

A mySql displays the entire schema and all the tuples present in the same. The backend serves as the backbone of the application thus effectively terminating a smooth process.



Conclusion

In conclusion, our Online Fashion Management system is not just a platform, it's a catalyst for transforming how the fashion industry operates. By smoothly combining customer interactions and making delivery processes more efficient, we've created a comprehensive solution that helps create a better user-interface and at the same time help in reducing the losses being incurred by the

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