CS 2001: Project : 2023

Group 28

Online Customer Relationship Management system



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1. Project_Description

We are group No 28 and our task was to build an online customer relationship management (CRM) system. First "what is a CRM?" It is design to interact between a company and its customers. It aims to improve customer satisfaction, loyalty and business efficiency by a centralized platform for managing customer information and interactions.

Our team has developed an online Customer Relationship Management (CRM) web application tailored for an e-commerce platform. This application is designed to enhance the customer experience, facilitate administrative tasks, and ensure a smooth online shopping environment for both customers and administrators.

> objectives and features.

1. User-Centric Design:

- Our goal was create a user-friendly platform for online product purchases, incorporating login and signup functionality.
- ❖ 'Help' page was added to provide support and guidance to customers.

2. Empowering Administrators:

• Our object was to provide administrators with the tools they need to manage customer data effectively.

The 'Admin Page' offers features such as customer data manipulation and complaint handling.

- ❖ Admins have the ability to delete and update customer records, ensuring data accuracy and security.
- Administrators can view customer payment methods, calculate the grand total, and analyze the total price of products.

3. Customer Feedback and Ratings:

- ❖ We implemented a customer feedback system, enabling users to provide valuable input and suggestions.
- Customers can also rate products and leave feedback, providing valuable insights for product improvement.

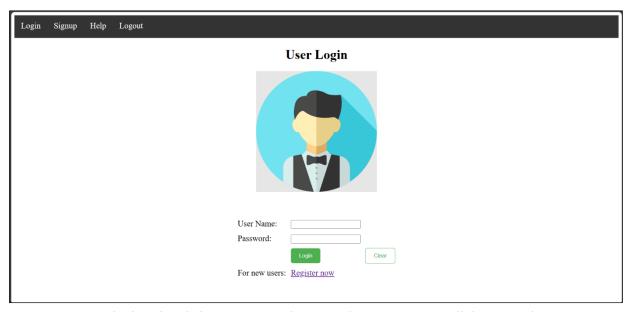
4. Order Tracking:

❖ To enhance the customer experience, we implemented an order tracking system, allowing customers to monitor the status and location of their orders.

2. Functionalities

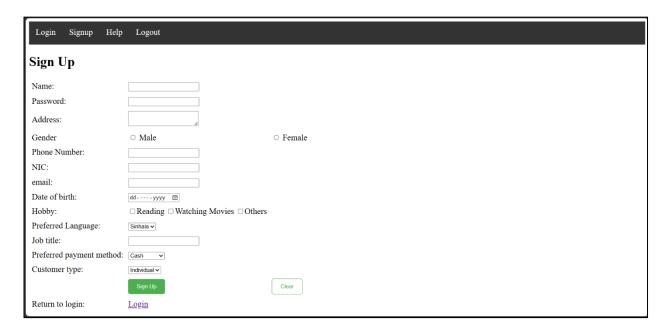
1. <u>User Functionalities</u>

• If user already registered in the system, he can login to the system using his username and password.



User can login using their username and password. For a new user click on "Register now"

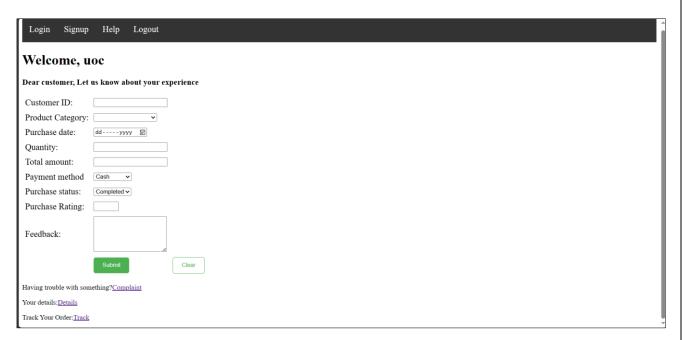
• For new users, they have to register to login to the system. For this they can click on 'Register now' link on the page or click 'Signup' on the navigation bar. Then they can fill-out the form and register to the system.



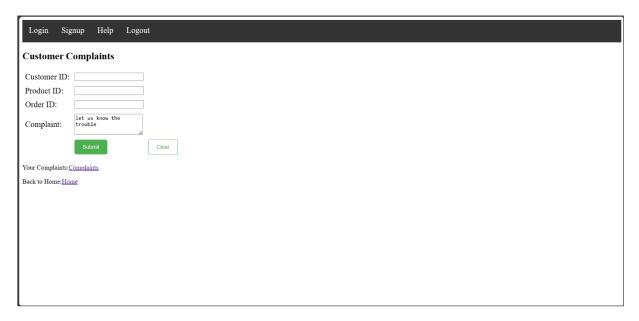
• When new user fills the registration form and click on submit, the customer id of the user will appear on the page.



 When user login, the following page will appear. In this page user can submit a feedback about a product they purchased.



- This page also contains following functionalities,
 - Complaint page
 - When user clicked on 'Complaint' link, user will be directed to 'complaint.php' page. In this page user can make a complaint about a product they purchase. When the user submits the form, data will save in a database and can be viewed by admins.



Complaint page (complaint.php)

o Track Complaint page

• In here user can track their complaints by clicking Your complaint link in complaint page. If user already made a complaint, they can view complaint status (Open, In progress, Resolved) and message given by admin.



User details page

When user clicked on 'Details' link, it will directed to User details page (details.php). In this page user can view their all details which they have submitted in registration.



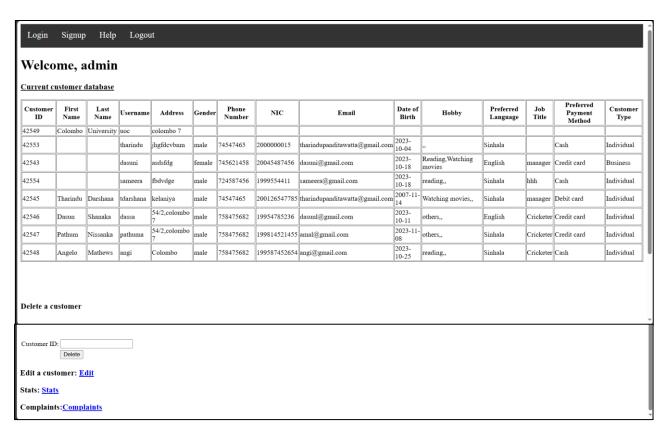
Track Order page

 Here user can track their order if they already place an order. When user enter the order id and submit, they can view order status.



2. Administration Functionalities

- Admin functionalities have created to perform certain operations on data provided by customers. It also ensures that prevent any unauthorized persons from entering the admin page and altering the data.
- In admin home page, admin can view all the customer data of customers who have registered to the system. It also provides facility to delete any customer. It also ensures the data integrity as it does not delete any additional rows because it uses customer id to delete a customer which is unique to each customer.

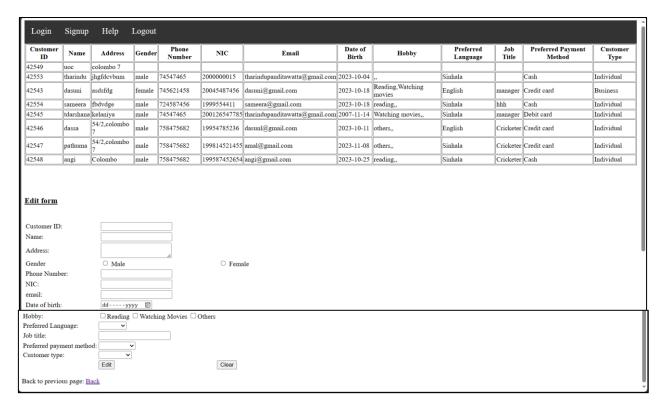


Admin home page (admin.php)

• Bottom of the admin page has several links.

o Edit

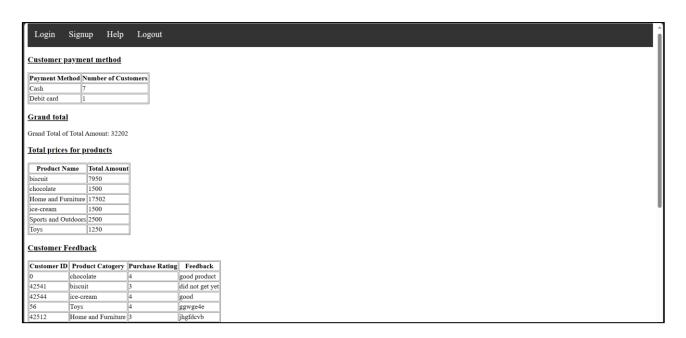
In edit page admin can edit customer details provided by customer when they register to the system. It contains customer data table for ease of using edit option. Admin has to fill the form with where and what data they want to alter and click edit.

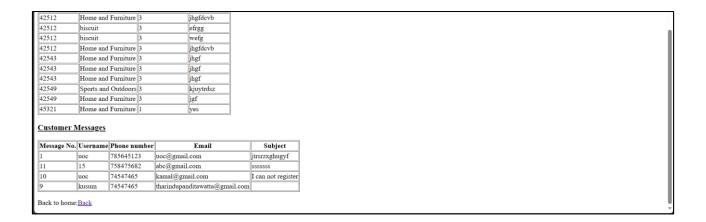


Edit page (edit.php)

Stats

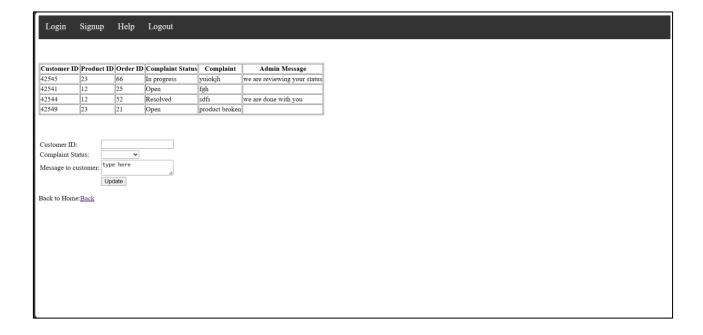
 This page contains some analyzed information of customer feedback, customer payment methods and other information such as grand total of sales, product-wise total of sales etc.





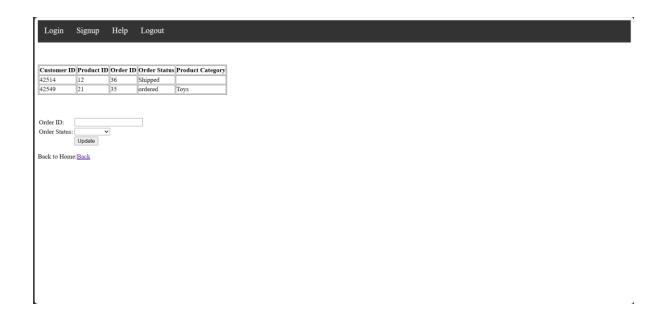
Complaint

This page allows admins to view customer complaints and edit complaint status and add a message to the customer so that the customer can view their complaint progress and any message given by admins.



o Orders

 This page can be used to update the order status so that the customer can see the process of delivering the ordered product.



3. Database design

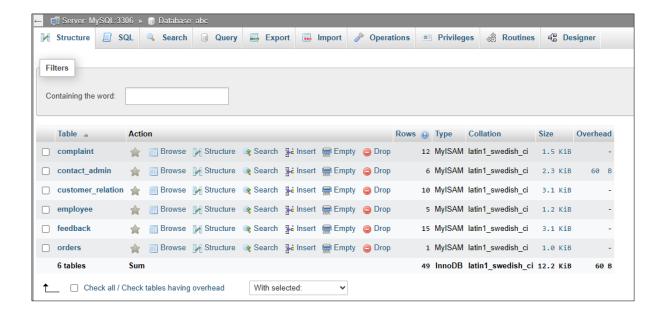
Database design is a fundamental process in data management. It involves creating a structured and efficient system for storing, managing, and retrieving data. The purpose of a well-designed database is to ensure data accuracy, consistency, security, and performance.

PHP scripts are responsible for establishing connections to the database, executing SQL queries, and displaying or processing data from those tables in web applications.

Database

DBMS : MySQL (using WAMP server)

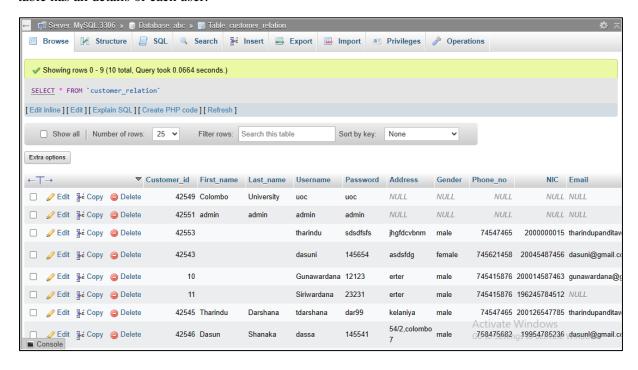
Database name : "abc"



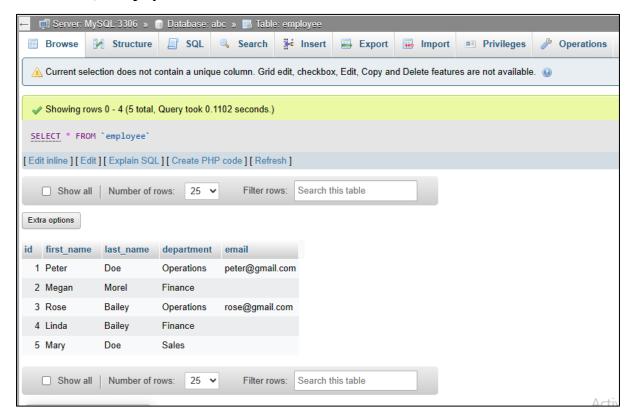
> Tables

1) Customer details table

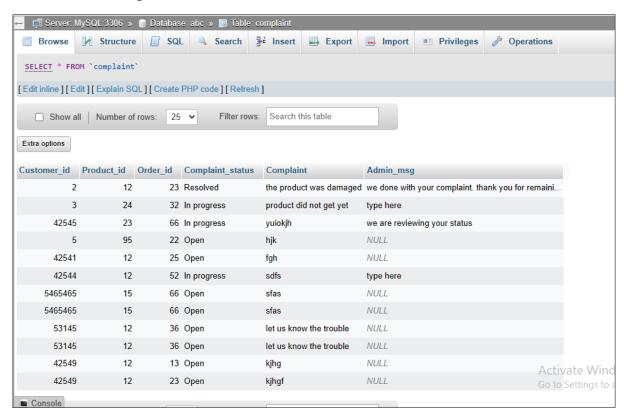
Every new user must have to create an account to log in and fill signup form. "customer_relation" table has all details of each user.



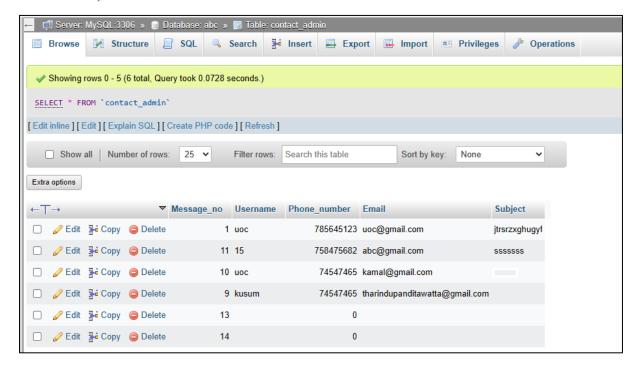
2) Employee details table



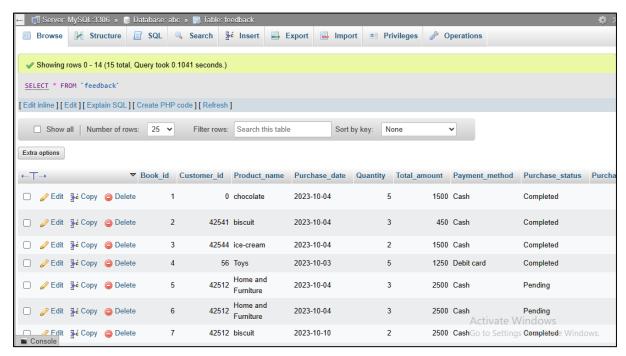
3) Complaints



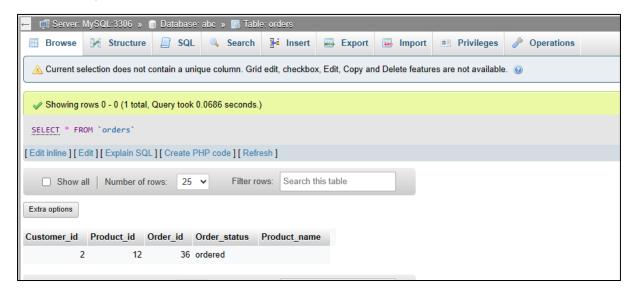
4) Contact administrator



5) Feedback



6) Orders



Connecting Database

The php files that we used in our CRM system are hosted on the WAMP server. PHP is a server-side scripting language that allows to connect to the database and execute queries. We use PHP's MySQLi extension to establish a connection to the MySQL database.

Connection.php

```
connection.php

// Connect to MySQL database

sservername = "127.0.0.1";

susername_db = "root";

spassword_db = "";

sdbname = "abc";

conn = new mysqli($servername, $username_db, $password_db, $dbname);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
```

4. Conclusion

- ❖ In conclusion, our Online Customer Relationship Management (CRM) web application is a good example of how computer science can make online selling better. We created this project to improve the online shopping experience for customers and give administrators the tools they need.
- ❖ We had goals: making the web application easy to use, helping administrators do their job, and letting customers share feedback and ratings. We also added a feature for tracking orders and checking what customers buy and how they pay.
- Our web application use to view how people pay, how much they spend, and what they like. This helps us understand our customers better. The things that we learned from this project will keep helping online stores and e-commerce sites get even better.

5. References

- ✓ https://www.gosite.com/blog/what-is-a-crm-system-1
- ✓ Youtube
- ✓ https://www.w3schools.com/