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Database Management Systems

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Final Project: Report to show complete description of project and its functionalities

Description: An online ice cream shop allows customers to look at a menu, place an order, and have it delivered right to their door. There are a variety of flavors and treats people can choose from on the menu. This was completed by utilizing a web browser that is connected with NodeJS and tables of data in SQL. The goal of this application is to make ordering ice cream easier and accessible for all people. Customers put in their order and in a few clicks are able to have ice cream delivered to them at their door.

Functionalities:

1. Customers will log in, or sign up to create an account, which is utilized to log into the store

    Select = obtain customer information, order details, product details

    Insert into = add new customer accounts, orders, and products in the database

    Validation in user input storing user data in session and check credentials

2. View menu of ice cream flavors they want to buy

    Logged-in users can order ice cream, check stock and make payments

3. Place an order with the buy button to be delivered to their doorstep

    Update = the stock is updated and shown on the menu in real time

    Orders and shipping information are saved into the database

4. Admins are able to manage inventory to update product availabilities and how much of a certain product is in stock

    Delete = remove users from database using customerID

    Update = the stock of a specific ice cream flavor updated by specifying the IceCreamID and the new stock value

5. Session management to track user sessions for login status and provide logout of account functionality