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CS-UY 3083 - Introduction to Databases

Professor Daniel Katz-Braunschweig

Term Project Assignment

Due: 10 December 2020

My web-based database is based upon an E-Commerce site called BestBuy. My design is able to do the basics of a database website. It can “register” and ”login” users to the database. Registering users to the database will insert a new user entry to the database, while logging in users to the database will check if the user exists by verifying their email address and password. Users can also update their information regarding their address and phone number. The database will attempt to find the user’s address or phone number and update the data according to the information submitted by the user in the database. In addition, users will be able to place an “order” by selecting a product and a store that has a stock of the product. In the beginning of each php file, it contains a small summary of their purpose and job for my web-based database.

There are many limitations to my web-based database. One big limitation is the user being unable to purchase multiple different products for one order. This means that each order only has 1 product unlike an E-Commerce site like BestBuy that has a “shopping cart” that contains multiple products for one order. Another limitation is users being unable to have multiple phone numbers. I designed the database for users to have multiple phone numbers, however the database queries within the webpage can only insert phone numbers when a user does not have one or update the preexisting phone number.

Another limitation is inserting data to the orders table and order_items table by user input form. In my web-based database, users have to type in the productid(UPC) and the storeid to

place an order. I would have liked to implement this method by having the users click on the product's name and store instead of typing because the productid and storeid can easily be a very long string of numbers and it can also prevent sql injections.

There are some features that I would have liked to implement into my web-based database. One of these features is the ability to search and sort through the product list. This would allow users to easily purchase the products. They could search or sort by typing in the product's name, brand, or specification.