

# CS 4WW3 Assignment 3

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## Database

The database exists as 6 tables. There are tables for administrative users, regular users, reviews for the site, reviews for products, all products, and all purchases. The administrative table does not touch any other table, and exists as a special table never touched by the website. Site reviews, product reviews, and purchases require a reference to a valid user, and product reviews and purchases also require a reference to a valid product name. Almost all fields are mandatory for all tables except: phone numbers and secondary address information for users, review text for all review tables, and a status for purchases. Username for admins and standard users are primary keys, and standard users also require a unique email address. A full relationship diagram is available in the provided PDF. Scripts for table creation, and initial insertion are also provided.

## Web Technologies

The website in general makes use of javascript for form validation, but some simple functions such as logging also make use of it. Use of ajax is common when interacting with php script files that I want to run in the background, and not require a page reload. This allows error messages and other events to occur dynamically. Usually a form will implement a javascript function, which will make an ajax call to interact with the database. User information is always available in the top right, and both standard and admin users make use of the same login button. The admin can log in using:

username: admin  
password: superpassword

The admin and regular users can access their account control panels by clicking their username in the top right. The entirety of the account system is implemented, but unfortunately the checkout system is not entirely finished. This was because of a data loss incident, requiring a large portion of work to be reimplemented and putting the project behind. However a general checkout system would use session variables to store cart information, checkout would pull these variables, and then the user could checkout validating against the database. If there was an error checking out too many items the user would be informed to change the quantities in the cart.

Similar to my last assignment the undergrad web server was experiencing errors with my ssh account, so I have hosted the files separately. The site can be accessed at:

104.236.123.21

I'm not sure if you require direct access to the server the files are stored on, but if you do please contact me at [robertda@mcmaster.ca](mailto:robertda@mcmaster.ca) and an ssh account with all requested privileges will be created for your access.