Appendix B: Codebase Description

This appendix contains a complete listing of all functional code files included in the project submission. The codebase is presented here divided into functional categories. Though the files were named as descriptively as possible, extra comments have been added for clarity. All files are additionally categorized as front (contain HTML or other implementation visible to users), back (PHP data handling and SQL commands not visible to the user), or mixed.

**1. Global Backend**

All files contained here are in the src folder. These are strictly backend and can be called from any file that executes a SQL query.

* connect\_local.php : Establishes a connection to localhost so that database information can be accessed.
* disconnect.php : Closes the connection to localhost.

**2. Table Creation**

All table files are contained in the src/tables folder. All table files are strictly backend and should only be called once in the lifetime of the program. Each file listed here contains the SQL query necessary to create the table indicated in the file name, as well as the PHP commands to connect to the database, execute the query, and close the connection.

* create\_addressbook\_table.php
* create\_basket\_table.php
* create\_basketcontains\_table.php
* create\_billingaddress\_table.php
* create\_customer\_table.php
* create\_employee\_table.php
* create\_item\_table.php
* create\_order\_table.php
* create\_ordercontains\_table.php
* create\_paidwith\_table.php
* create\_paymentmethods\_table.php
* create\_promote\_table.php
* create\_purchase\_table.php
* create\_ship\_table.php
* create\_shippedby\_table.php
* create\_shippedto\_table.php
* create\_shipprice\_table.php
* test\_create\_tables.php : Executes all table creation files in a batch process.

**3. Value Insertion**

All files listed here are contained in the src/insert folder. All value insertion files are again strictly backend and should be run only once to fill the tables when the database is initialized. Each file listed here contains SQL queries to insert some dummy values into the table in the file name, and the PHP code to connect to the database, execute the query, and disconnect.

* insert\_addressbook.php
* insert\_basket.php
* insert\_basketcontains.php
* insert\_billingaddress.php
* insert\_customer.php
* insert\_employee.php
* insert\_item.php
* insert\_order.php
* insert\_ordercontains.php
* insert\_paidwith.php
* insert\_paymentmethods.php
* insert\_promote.php
* insert\_purchase.php
* insert\_ship.php
* insert\_shippedby.php
* insert\_shippedto.php
* insert\_shipprice.php
* insert\_all\_values.php : Runs all dummy value insertion files as a batch process.

**4. Store Home Page**

The files listed here are contained in the src folder.

* main.php : Front. Contains HTML code for main page.
* search.php : Mixed. Contains HTML code for displaying search results and PHP/SQL code for translating user input search strings to SQL queries and executing the queries.
* view\_item\_by\_category.php : Mixed. Contains HTML code to display items sorted by category and PHP/SQL code to retrieve items matching a specific category from the database. This structure was hard coded instead of abstracted because the program only handles two item categories.

**5. User Registration and Login**

The files listed here are contained in the src folder.

* customer\_registration.php : Mixed. Contains HTML code for the registration form and PHP code for type safety checking in user input, including field specific error messages.
* create\_cust\_account.php : Back. Contains SQL/PHP code necessary to add a new customer entry to the Customer table in the database. Echoes success message to user when queries are completed.
* customer\_login.php : Front. Contains HTML code for the login form.
* account\_home.php : Back. Contains PHP/SQL code to check validity of login information. Redirects to user account homepage upon success or echoes error otherwise.
* customer\_logout.php : Back. Destroys all session data and logs customer out of account.

**6. User Account Management**

All files listed here are contained in the src folder.

* my\_account.php : Mixed. HTML code to display the user control panel screen; performs some logical checks using SQL queries to determine what navigation options to present to user.
* my\_address.php : Mixed. Queries database to find all addresses for user marked as visible in the AddressBook (shipping addresses). Contains HTML code to display addresses to the user.
* my\_payment.php : Mixed. Queries database to find all payment methods and billing addresses assigned to the user. Contains HTML code to display visible payment methods to user.
* new\_address.php : Front. Contains HTML code to display new address entry form to user. Some type safety checking is done here using HTML5.
* add\_address.php : Back. Contains SQL/PHP code necessary to retrieve user input from POST and insert values into the database. Contains some additional type safety checking.
* new\_payment\_method.php : Mixed. Contains HTML code to display new payment method entry form, including some type safety checking in HTML5. Some database work is done here to display possible address book entries to users.
* add\_payment.php : Back. Contains SQL/PHP code necessary to retrieve user input and insert values into the database. Contains some additional type safety checking.
* edit\_address.php : Front. Contains HTML code to display address edit form to user. Some type safety checking is done here using HTML5.
* update\_address.php : Back. Contains SQL/PHP code necessary to update table entries. Contains additional type safety checking.
* edit\_payment.php : Front. Contains HTML code to display payment method edit form to user. Some type safety checking is done here using HTML5.
* update\_payment.php : Back. Contains SQL/PHP code necessary to update table entries, with additional type safety checking.
* cusomter\_order\_history.php : Mixed. Contains HTML code for displaying order information to users. Contains PHP/SQL code to retrieve order information from database.

**7. Shopping**

All files listed here are contained in the src folder.

* customer\_basket.php : Mixed. Contains HTML code to display basket contents to user. Contains PHP/SQL code to query database to find contents of user's basket.
* add\_item\_to\_basket.php : Back. Contains PHP/SQL code necessary to insert new item entries to the BasketContains table.
* review\_order.php : Mixed. Contains HTML code to display current basket contents to user (order contents) and allow user to select shipping method. Contains PHP/SQL code to find basket contents.
* confirm\_shipping.php : Mixed. Contains HTML code to display current order contents with total price including shipping. Allows customer to select payment method and shipping address. Contains PHP/SQL code to query relevant tables in database.
* place\_order.php : Back. Contains PHP/SQL code to properly update all tables in the database and add new entries after a customer places an order.
* order\_confirmation.php : Mixed. Contains HTML code to echo order information back to user if all queries in place\_order.php were executed successfully. Contains PHP/SQL queries to retrieve relevant information from the database.

**8. Inventory**

All files in the src/items folder are mixed files with the HTML code to display item specific information to users and the PHP/SQL code to find specific item information in the database. The src/items folder also contains an imgs folder for item photos.

**9. Employee Login and Main**

All files listed here are contained in the src folder.

* employee\_login.php : Front. Contains HTML code to display employee login form.
* emp\_login\_check.php : Back. Contains PHP/SQL code to check for valid employee login information. Redirects to main employee page if successful or errors out if invalid information has been entered.
* employee\_logout.php : Back. Destroys session data and logs out employee account.
* employee\_home.php : Mixed. Contains HTML code to display main employee control panel to users. Contains PHP/SQL code to check employee permissions in the database. Displays extra manager control panel if employee is marked as manager.

**10. Employee Functions**

All files listed here are in the src folder.

* employee\_order\_processing.php : Mixed. Contains HTML code allowing employees to view current order marked as pending in the database. Contains PHP/SQL code to retrieve order information, as well as stock information. Allows employees to update orders to shipped in the database if all items are in stock.
* manage\_inventory.php : Mixed. Contains HTML code allowing employees to view current item information in the database. Contains PHP/SQL code to pull item information from the database and update item entries as necessary.

**11. Manager Functions**

All files listed here are in the src folder.

* manager\_home.php : Front. Contains HTML code allowing employees marked as manager to select from management functions.
* manager\_statistics.php : Mixed. Contains HTML code to display sales information to management users. Contains PHP/SQL code to pull and aggregate sales information from the database.
* search\_for\_promotion.php : Mixed. Contains HTML code to display current item information with prices, and update sales rates as necessary. Contains PHP/SQL code to pull item information from the database.
* manager\_promotion.php : Back. Contains PHP/SQL code to update promotional rates on items in the database.