Fair Visions Website and Database Project Documentation Marc Stern

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Login Information

User view login: <u>user@montclair.edu</u>

password: FP_UserView

Admin view login: <u>sternm2@montclair.edu</u>

password: FP_AdminView

1. Executive Summary

This project seeks to create an e-commerce website that implements a database. The database will store information about the website users, items for sale, and it will keep track of each sale made. The website contents will look visually clear and concise for easy accessibility and understanding for all types of users. Additionally, the website will implement security measures to ensure user data is properly protected.

2. Business Plan and Analysis of Client Needs

The client is Fair Visions, a Brooklyn-based indie rock band formed in 2018. The trio has performed throughout New York City, but has only released its first EP as of September of 2020. As part of their continued success, they look to build out a website that can be a platform for all things Fair Visions.

The group is looking to sell their music, as well as other merchandise, including posters, stickers, clothing, and more. They have over 30 products in their inventory, each storing a unique set of information based on the category in which they belong. These products are broken down into two main categories Music and Merchandise. Music will be categorized by the format in which it sold. Merchandise will similarly be categorized by the type, either an item, such as a mug, or a blanket, or an article of clothing, like a t-shirt or a hoodie, which will also have a size. The band leader/manager needs to be able to view, insert into, delete from, and modify the inventory. He also needs to be able to review any orders that are made so that products can be shipped out to the correct customer's address. Likewise, digital products will need to be delivered to the correct email address.

The client also expects that customers will have separate access to the website, not allowing access to update the inventory, but instead allowing them to have a shopping cart where they can add and delete items. Within the shopping cart, a user needs to be able to see what they've already added, as well as the ability to modify and finalize item quantity in the cart, and make the purchase. Purchases need to display a receipt for the user that is stored for future viewing purposes. It is also key that the shopping cart does not allow customers to add quantities of items greater than what is available as to avoid any confusion between the customers and administrators. A customer should have access to only their own shopping cart and receipts, as well as viewing capability of the inventory in order to add items to their cart.

The shopping cart needs to automatically interact with the inventory section of the database in order to keep accurate track of inventory quantities. When a customer adds an item to the cart, the product inventory should decrement the quantity of that item, effectively reserving an item for a customer. On the contrary, when an item quantity is reduced from the cart, it should be added back into the product inventory for other customers to see. If an item quantity in the cart is reduced to zero, it should additionally be deleted from the cart.

Finally, the client expects any sensitive data stored in the database, such as passwords, need to be stored in a secure way. They do not want to be liable for any database injections. This will be implemented in three steps, a login page, password encryption, and SQL parameters. There will be a full discussion on security in section 7.

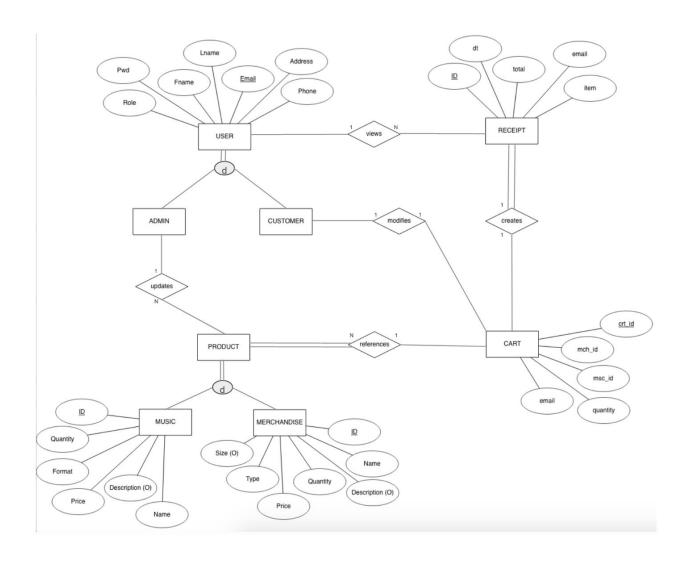
4. Conceptual Data Model

There are four main entities for which information needs to be stored. The first of which, User, has seven attributes: Fname, Lname, Email, Address, Pwd, Phone, and Role. Email is the unique identifier, and Role is important as it will dictate the view a user sees when logging into the website. It can be thought of as two distinct subclasses, Admin and Customer. The Product entity is also made up of two distinct subclasses, Music and Merchandise. Music stores six attributes: ID, Name, Description, Format, Price, and Quantity. Merchandise stores similar attributes, except instead of Format, it contains Type, and also stores an optional category, Size. In both cases, ID is the primary key, and Description is optional. Cart is another entity, storing attributes: crt_id (cart ID), msc_id (music ID), mch_id (merchandise ID), quantity, and email. The crt_id is the unique identifier, and msc_id and mch_id are both optional categories, under the condition that one is filled out, and not both. The final entity is Receipt, which has attributes ID, dt (date time), total, email, and item. ID is the unique key.

User has a relationship with every entity, but in varying ways, thus the need for the *Role* attribute to act as a subclass distinction between Admin and Customer. Admin has a relationship with Product, *updates*, where one Admin can update many Products. One customer *modifies* one Cart at a time. Both subclasses of Users can *view* many Receipts. More relationships include Cart, who *references* many Products, a one to many relationship, and *creates* Receipts, a one to one relationship. All relationships are not required except for a Receipt and Product, which must be created and referenced by a Cart, respectively. The anchor concepts for this model are as follows:

- Admin *updates* Product
- Customer *modifies* Cart
- User views Receipt
- o Cart references Product
- o Cart creates Receipt.

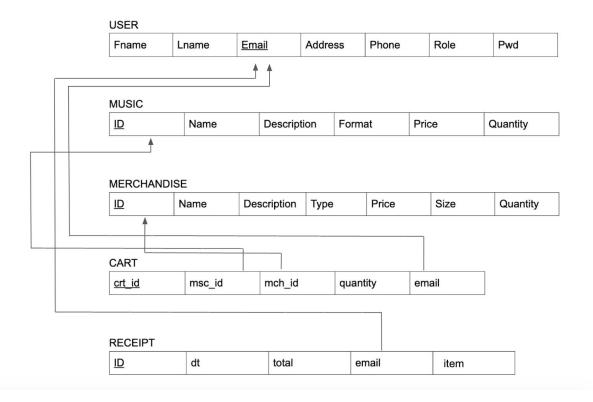
The enhanced entity relationship (EER) diagram is displayed on page 5.



5. Logical Data Model

In this section, the EER Diagram from the conceptual data model is converted into the relational model for practical use in the database construction. The relational model that has been converted (as seen on page 6) is a refined version of the traditional methods of relational model conversion, made more effective for application purposes. Here shows the relationships between entities. Email modelled in the Cart and Receipt both use the User Email as a foreign key. The Cart will also use the Merchandise ID and the Music Id as foreign keys for the mch_id and msc_id, respectively. This model describes the tables that are implemented in the database. While it did not seem necessary to create additional tables or use foreign keys for the Cart quantity, there is a relationship between the Cart and the Music and Merchandise entities that is automatically updating the quantity fields to keep track of the inventory.

Relational Model:

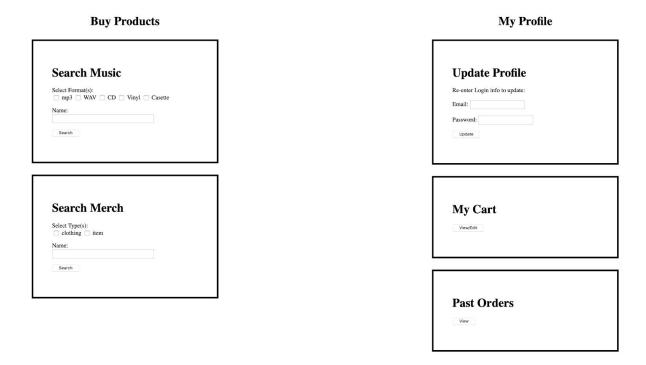


6. Data Views

There are two views of this database: Admin, and Customer. These are both modelled under the generalized classification User, which contains the attributes storing the information about each type of User. The User role is a defining attribute, as it will determine the view of the database seen by the current User. Upon logging in, the system checks for the user role, based on the email and password provided by the user with this SQL statement:

The query searches the User table for a matching password and email. If a match is found, the role will also be returned, which is checked for determining which is the next php document to access. This is simply known as a view.

6.1 Customer View If a user is identified as a customer the view they see looks like this:

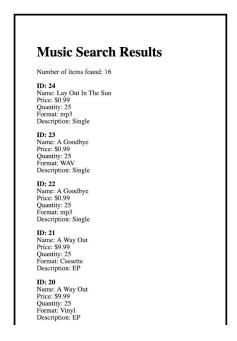


Here, the customer has five actionable options. The search music form allows the user to query the database by name and/or by the format. The code for this check with the subsequent query is as follows:

```
if ($format_str && $name) {
    $query = "select * from Music where Name like '%".$name."%' and Format in
        (".$format_str.")";
}
elseif ($format_str) {
    $query = "select * from Music where Format in (".$format_str.")";
}
elseif ($name) {
    $query = "select * from Music where Name like '%".$name."%'";
}
else {
    $query = "select * from Music";
}
```

If the Name is included, then the database selects all the columns that have match on the Name. The Name does not need to be exactly correct, thus the *Like* operator is used. Instead, it will display to the customer all possibilities that have a matching string in the Name column. If the Format is selected, all rows of the selected format are displayed to the user. Using the *in* operator allows multiple or no formats to be checked. If both are selected, then the matching conditions are more specific, including both types of queries. When nothing is selected, the user will be displayed every item in the catalog.

What the customer is displayed from their search determines which items can they currently see, enabling them to discover the corresponding item identification and later input it into the Cart, as seen here:





This screenshot shows the Search Results view, and allows them to add items to the Cart by inputting the item ID and the quantity. When an item is added to the Cart, a check for each input is done. The first being that both requirements were filled out. The second, for ID, checks to make sure that there is a corresponding item in the catalog. Considering that the item ID is

automatically created and incremented, there will never be an ID 0. So, for example, if ID 0 is added to the Cart, an error will occur. That check is seen here:

The third check is done on the quantity. This check requires both querying the database and mathematical logic. First, the quantity is returned for the matching item. If that quantity, the one currently in the catalog, is less than the requested amount, then there is not enough of that item to add to the Cart, and an error occurs. Next, a new query returns the amount of that item that already exists in the cart:

If the item does not already exist in the cart, then a simple insert is applied to the Cart table, and the item ID, its quantity, and the customer's email are input:

```
$query = "insert into Cart (msc_id, mch_id, quantity, email)
values ($id, NULL, $quantity, \"$email\")";
```

If the item does exist in the cart, the quantities are added together, and query updating the cart the with new quantity is input, matching on the ID:

The final step in this process is to adjust the quantity now available in the inventory based upon the quantity that was just added to the cart. The following code applies this:

```
$query = "update Music
    set Quantity = $qty_diff
    where ID = $id";
```

The customer can follow the same process for merchandise, but instead of searching on music format, they can search by Name and/or Type of merchandise product. First a check on the user input is performed:

Then, the quantity of the requested item is compared with the quantity in stock, as seen with the following two queries:

Once again, if the quantity is allowed, then a check on the item already existing in the cart is performed. If not the following query inputs the ID, quantity, and user email into the Cart table:

```
$query = "insert into Cart (msc_id, mch_id, quantity, email)
values (NULL, $id, $quantity, \"$email\")";
```

Otherwise, only the quantity for that item matching the ID is updated in the Cart:

And finally, again, the quantity in the appropriate catalog needs to adjust to a new total quantity based on the amount added to the cart:

The customer can also view their Cart. Clicking the view/edit button in the My Cart form displays the user the items in their cart. Matching on the user email, the following code:

```
$query = "select msc_id, mch_id, quantity
from Cart
where Email = \"$email\"";
```

displays the following view:







From here, a customer can see the items in their cart, and the corresponding IDs. Now they can do one of two actions, either remove items from the cart by quantity, where reducing a quantity to zero removes the item from the cart, or they can make the order. The former follows a similar process to the aforementioned quantity checks for adding to the cart. Assuming the customer inputs a valid quantity to remove, the first check performed is to make sure the item already exists in the cart:

If it does, it compares the requested quantity change to the amount in the cart. If the difference equals zero, then the item is removed from the cart:

```
$query = "delete
    from Cart
    where $id_col = $id and email = \"$email\"";
```

If the quantity is less than zero, the user is requesting the take out more items than it has in the cart, which will cause an error when adjusting the catalog product quantity, and therefore throws an error. If the quantity is greater than zero, then the requested amount is valid, and the Cart decrements the quantity of the requested item:

```
$query = "update Cart
set quantity = $qty_diff
where $id_col = $id and email = \"$email\"";
```

In this case, the catalog needs to have product quantity added back in, as done with the following query:

The second action a customer can do on this page is to make the order. This is as simple as clicking the "make order!" button (which is technically a form). Upon submitting the form, the purchase is made, the cart creates a receipt row, and the receipt information is displayed to the user. Receipt creation is done through a few steps. The first is to return all of the items that are currently in the customer's cart:

```
$query = "select *
    from Cart
    where email = \"$email\"";
```

If no results are found, then the cart is empty for that user, and the purchase is not made. Otherwise, one of two actions is performed: either the price, name format and ID are returned from Music:

```
$query = "select Price, Name, Format, ID
from Music
where ID in ($msc_id_str)";
```

or in the case of Merchandise, just the price, name, and ID:

```
$query = "select Price, Name, ID
    from Merchandise
    where ID in ($mch_id_str)";
```

Using this information, a total price can be calculated, and the appropriate fields name, format, and product ID, will be stored in the Receipt table, and displayed to the user:

```
$query = "insert into Receipt (total, email, item)
values ($total, \"$email\", \"$items_str\")";
```

If the order is made successfully, then all the items in the cart for this particular user are removed:

```
$query = "delete
    from Cart
    where email = \"$email\"";
```

Making an order looks like this:

```
RECEIPT

Number of items ordered: 5

total: $101.9

items: Lay Out In The Sun [mp3] (1), Feels Right [mp3] (1), Hoodie (2), Beanie (1), Mug (5)
```

return

Now that the customer has a Receipt identified by their login email, they can return to the main customer screen, and view their receipts there, via Past Orders, done with a simple select query:

```
$query = "select ID, DATE(dt) as d, TIME(dt) as t, total, item
from Receipt
where email = \"$email\"";
```

The Receipt table automatically stores a datetime data type, which is then returned by the above code as individual results for date and time. Viewing one's receipts looks like this:

PAST ORDERS Orders made: 1 ID: 6 Date: 2020-12-06 Time: 21:28:42 Total \$: 101.9 Items: Lay Out In The Sun [mp3] (1), Feels Right [mp3] (1), Hoodie (2), Beanie (1), Mug (5)

return

The final action a customer takes is to change their user profile information. The user is required to log in a second time, to verify that the user is themself and can update information such as the password. The login check is an identical query to the one from the login page, matching on email and password. With success, the page views as such:

Update 1	My Profile	
1. Name: Mark S Email: user@mor Address: 10 Norr Phone #: 123456	ntclair.edu mal Ave, Montclair, Nj 07043	
Enter Change(s):		
First Name:		
Last Name:		
Email:		
Address:		
Phone #:		
Password:		
make changes		
return		

The customer can change their first or last name, respectively:

```
$query = "update User
    set Fname = \"$fname\"
    where Email = \"$hid_email\"";

$query = "update User
    set Lname = \"$lname\"
    where Email = \"$hid_email\"";
```

Address, Phone, and Password changes are done similarly:

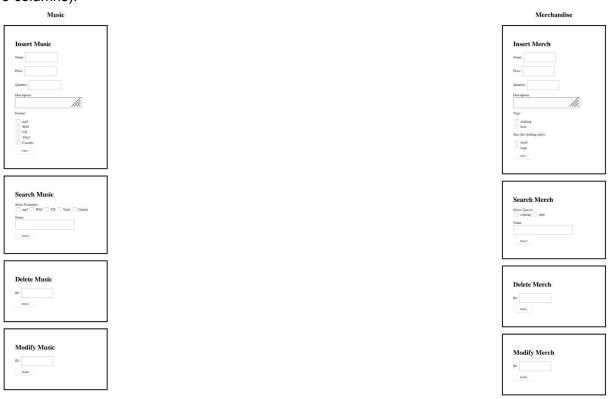
Email is also available to change, but due to it being the primary key of the table it requires an extra check, which identifies if the requested email change is already used by a user:

```
query = "select Email from User where Email = \"email\"";
```

If the email is not identified, then it can be updated as requested:

```
$query = "update User set Email = \"$email\" where Email = \"$hid_email\"";
```

6.2 Admin View If a user is identified as an admin the view they see looks like this (the image is zoomed out to capture the whole page at once, there is not actually large gap between the two columns):



The admin view has many of the same capabilities as the customer, such as searching the catalog, and inserting, deleting, and modifying content, but in a different context. While the customer updates their cart, the admin will update the database directly, and does not interact with the cart. In this section, I will only be addressing the inventory updates, as the queries for searching are identical, although the resulting page view does not include the option to add the items to the cart. Rather it serves the purpose of giving the admin quick access to view the product IDs in order to input the correct deletions and/or modifications.

Music insertion checks first to make sure that all necessary fields are recorded, in this case, that is all but description. If all the categories are input, then the system checks for an item match, as only one of each item can exist:

```
$query = "select Name, Format
from Music
where Name = \"$name\" and Format = \"$format\"";
```

Assuming there is no match, and the item has not already been input, then the system simply inputs the fields to their corresponding column in the Music table:

```
$query = "INSERT INTO Music (Name, Format, Price, Quantity, Description)
VALUES (\"$name\", \"$format\", \"$price\", \"$quantity\", \"$description\")";
```

Merchandise input follows the same logic, but uses slightly different fields, so the requirements are different such that only the clothing type needs a corresponding size. A user can leave the

size entry blank for an item type. The following code demonstrates the check to see if the inserted item already exists in the database:

```
$query = "select Name, Type, Description
from Music
where Name = \"$name\" and Format = \"$format\" and Description = \"$description\"";
```

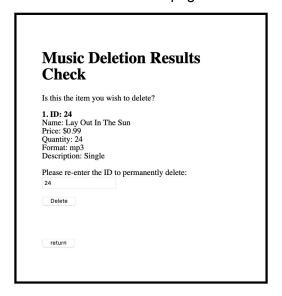
Then, if no match is found, the following insert is applied to enter the new product:

```
$query = "insert into Merchandise (Name, Description, Price, Type, Size, Quantity)
values (\"$name\", \"$description\", \"$price\", \"$type\", \"$size\", \"$quantity\")";
```

When a product ID is entered to delete an item from the inventory, the program shows the user the item they are about to delete, and makes sure that it is the correct item using the following query:

```
$query = "select * from Music where ID = $id";
```

The admin user sees this page as:



This gives the user a buffer to either return back to the previous page, and save the item, or to complete the delete with a simple click. That click performs this query, which double checks the database for the selected item:

```
$query = "select ID from Music where ID = $id";
```

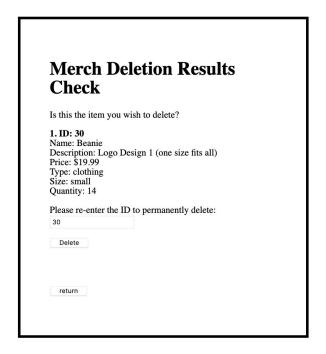
The subsequent query performs the deletion:

```
$query = "delete from Music where ID = $id";
```

Once again, the Merchandise deletion is the same process. The first check is to inquire about the validity of the ID number:

```
$query = "select * from Merchandise where ID = $id";
```

Once identified, the user is prompted with a second form, which performs the deletion:



Then, the second check for ID validity:

```
$query = "select ID from Merchandise where ID = $id";
And finally, the deletion:
$query = "delete from Merchandise where ID = $id";
```

Lastly, an admin can modify the information in a given product. Looking at music first, as with the previous tasks, a check for valid ID is done:

```
$query = "select * from Music where ID = $id";
```

Once verified, a new page opens giving the user options for categories to alter, looking like:



Any one, or multiple, of these categories can be changed with the click of the "make changes" button (like delete, it's actually a form). As always, a check on the identification is done first:

```
$query = "select ID from Music where ID = $id";
```

Then it checks to see if the item that is being updated is altered to an item that already exists in the database, by checking for existing format and name matches, when one of the two columns in left empty, respectively:

```
$query = "select Name, Format from Music where Name = \"$name\" and Format = \"$hid_format\"";
$query = "select Name, Format from Music where Name = \"$hid_name\" and Format = \"$format\"";
If no match is found, the update is made:
```

```
$query = "update Music set Name = \"$name\" where ID = $id";
$query = "update Music set Format = \"$format\" where ID = $id";
```

For other categories, in the order price, quantity, and description, the following queries demonstrate the updates:

```
$query = "update Music set Price = \"$price\" where ID = $id";
$query = "update Music set Quantity = \"$quantity\" where ID = $id";
$query = "update Music set Description = \"$description\" where ID = $id";
```

The same view type for merchandise starts with an ID check:

```
$query = "select * from Merchandise where ID = $id";
```

If the ID is found, the user is displayed this new page:

Merchandise Modification Results Check		
Is this the item you w	vish to modify?	
1. ID: 30 Name: Beanie Description: Logo De Price: \$19.99 Type: clothing Size: small Quantity: 14	esign 1 (one size fits all)	
Enter Change(s):		
ID: 30		
Name:		
Price:		
Type:		
clothing item		
Size (for clothing onl	y):	
smallmediumlarge		
Quantity:		
Description:		
	//	
make changes		

The update queries for name, price, and quantity look like the following:

```
$query = "update Merchandise set Name = \"$name\" where ID = $id";
$query = "update Merchandise set Price = \"$price\" where ID = $id";
$query = "update Merchandise set Description = \"$description\" where ID = $id";
```

The uniqueness of modifying this table comes with the type category, which determines if size is required. After passing through the proper logic checks for this issue successfully, the update is permitted and recorded via this query if the product is changed from clothing to item:

```
$query = "update Merchandise set Type = \"$type\", Size = null where ID = $id";
```

On the contrary, when clothing is changed from item, then the size also needs to be input. If it is, the following query updates the product information:

```
query = "update Merchandise set Type = \"$type\", Size = \"$size\" where ID = $id";
```

7. Security Implementation

There are four main techniques used in this project to help protect the security of user data, and to prevent SQL injections. The first technique is the implementation of a login landing page. The user accesses the login page, via the home page login button, separately from the database. This allows the system to actually check to make sure that the user has been granted access to their appropriate view. As previously mentioned, the system uses the landing page to check for the user role upon finding a match, with which it will display the user the appropriate page, the two roles being admin and customer.

Secondly, when the system checks for a match on email and password, although the user types a password with letters, numbers, and/or special characters, the entirety of the passcode is converted into a much longer random string of numbers and letters, enabling greater security for storing user passwords. In other words, the users password is not the password stored in the database. That is accomplished with the following code:

What is seen above is that when the password is passed into the query that finds a match on the user, the password is passed through the *sha1()* function, which converts the password to a long random string. This is also done when a customer decides to change their password:

```
$password = sha1($password);
```

What is also noticeable about the code syntax above is that the query does not directly look for email and password values. Instead, a prepared statement is used with email and password as the two parameters. This is the third technique, and it helps to prevent against SQL injections. What the code is doing is instead of simply concatenating the passed values, email and password, and running the guery based on the values and checking for a match, as

seen with queries in section 6, it uses a prepared statement to bind the values to a specific parameter. What this means is that the scope of the *where* condition is limited to each of the parameters. A hacker could input a SQL injection into the login email or password, and instead of not finding a match and still running the injected query, it will simply not find a match on each passed value. The intended malicious code will not run as part of the query.

The final technique also has to do with preventing SQL injections. Every time the database is opened to run a query in any script used for this website, the code looks like this:

```
@ $mysql = new mysqli('localhost:3306', 'sternm2', '••••••', 'sternm2_FAIR VISIONS');
```

(The dots represent where a password is typed, which I've removed from this documentation for my own security.) By placing an @ symbol at the beginning of the variable that opens the database, any error messages from the system are suppressed. Typically a developer needs to see these error messages to inform them about what needs to be changed for their code to run properly. In this vein, it is important to not display those messages that could help a hacker understand why their injected SQL code is not doing the job it was intended to do. A hacker could use error messages, just like a developer, to aid them into writing code that the system understands. The system does not understand the intent of the coder's code, and therefore these security protections against SQL injections are important for database and website implementation.

8. Website Implementation

The website homepage looks like this:

Fair Visions

Login here



A visitor can click on the right button to directly access the link to their music on Spotify. On the left, a visitor can login to the website. The css style code for these buttons, and the column layout is as follows:

Spotify

```
<style>
* {
 box-sizing: border-box;
.column {
 float: left:
 width: 33.33%;
 padding: 10px;
a:link, a:visited {
     background-color: white;
     color: black;
     border: 2px solid green;
     padding: 10px 20px;
     text-align: center;
     text-decoration: none;
     display: inline-block;
a:hover, a:active {
  background-color: green;
  color: white;
</style>
```

Additionally, every page outside of the home page has its contents displayed inside a frame, as seen in several screen captures in section 6. The code looks like:

```
* <style>
* {
   box-sizing: border-box;
}

.form {
   background-color: white;
   width: 500px;
   border: 5px solid black;
   padding: 50px;
   margin: 30px;
   text-align: left;
}
</style>
```

Moreover, after logging in, for both types of users, there is a form at every dead end, such as errors, that allows the user to return to their respective homepage. In the case of the admin, the form code looks like this:

```
<form method="post" action="admin_page.php">
  <input type="submit" name="return" value="return">
  </form>
```

This is straightforward, and the implementation makes it easy for users to navigate back to the main page. The customer return form is slightly more complicated, however, and is written:

```
<form method="post" action="customer_page.php">
<input type="submit" name="return" value="return">
<input type="hidden" id="hid_email" name="hid_email" value="<?php echo $email?>">
```

There is an extra line of code in this form, and it passes a hidden value, which is set to the email variable passed in from the previous script. The reason for this is that the customer email is required for every script that runs a check on the database. Since the customer only inputs their

email information at the login page, and to update their profile, the rest of the pages need to pass around the email value. Every form passes the email variable as a hidden value that can be retrieved in the subsequent script.

```
if ($num_results > 0) {
   if ($row[2] == "Admin") {
      header("Location: admin_page.php");
   }
   elseif ($row[2] == "Customer") {
      header("Location: customer_page.php?email=$email");
   }
```

The above code is the check performed on the login page to see the matched user's role. The code demonstrates that after determining the user role, it redirects the user to the corresponding page. In the case of the customer, it also passes the email variable in the redirect, just like all the following forms will too. Because there are two different cases for passing the hidden variable, there are two different syntaxes for returning the value in the subsequent script:

```
$email = $_GET['email'];
if (empty($email)) {
    $email = $_POST['hid_email'];
}
```

The \$_GET[] method is required for retrieving the value from redirect, while the \$_POST[] method retrieves the value from a form. The program first retrieves the value from a redirect. If the value is empty, implying nothing was found, then the program resets the variable to retrieve the value from a form on the preceding page.

9. Analysis of Database

Most of the tables in the database are designed in first normal form. The main reason for this design is for simplicity. First normal form is not as restrictive or pure as second or third normal form, but for this project it was necessary to simplify the tables to work under time constraints, but also to avoid joins as much as possible. In fact, all database joins are implemented imperatively. This was made easy by creating a database in first normal form. For extra convenience, there are two tables that break normal form for practical reasons.

The first table to break first normal form is the User table. This table is mostly in first normal form, except for address attribute. Typically an address should be broken up into pieces, having a column for each element of information, such as address number, street name, city, state, and zip code. The implementation of address in this table is one long string. Now, technically the column can only support one value, which is a string, but it is arguably not in any normal form.

Secondly, the receipt table. This table certainly breaks the normal form. Instead of having a separate table for the items purchased, linking them to the receipt ID, the receipt table simply takes a string input that includes all items purchased and stores them in the item column. Again, technically the column only takes one input, and the string concatenation happens before the insert query, but this could certainly have been implemented more robustly. Given the time

constraint on the project, this was a trade-off I decided to make, as it does not affect the functionality of the system.

In general all the data is reachable, and there is little redundancy. The cart table has an odd implementation, checking storing either the music product ID or the merch product ID. This table has a null value in every row by definition, and therefore is not the best implementation. A better way to implement this would be to have a separate product table that stores product ID that matches the products in the music and merch tables respectively. This would allow the cart to only need a column for product ID, relieving the table of all null values. It could also streamline some of the website contents like having separate inserts for music and merch based on the ID. Currently, there can be two products with the same ID, and the system requires the user to tell it whether it will be found in merchandise or music. Instead it would be easier for the user if there was only one ID per product.

Overall, the system could have been implemented in second normal form by adding these extra tables. The main reason I used a combination of first normal form and breaking the normal form was for time constraint, convenience, and overall understanding of database implementation, which I have a much greater understanding of having completed this project.

11. Conclusion

Now that the project has been completed, there are still many areas that can use improvement. The first improvement I would make is the homepage. To truly meet the band's expectations for the project, the homepage needs to be a lot more lively, and include a multitude of links to every location their music can be streamed, as well as links to their social media. The group also has a link tree from their Instagram account that includes links to causes that are important to the band, such as voting registration check, and funds for saving local Brooklyn venues during the pandemic. A front page is key for this type of client, so that is the area where I would start.

Secondly, the database could be more robust. Given more time, I would create the database entirely in second normal form, as mentioned in section 9. Accomplishing this would allow the database to continue to grow and add features without having to redo the tables along the way. In essence, the tables will most likely need to be revised as new elements are added to the website, therefore I might as well start by updating the database form, and the subsequent code that queries the database.

There are additional security measures I would take. For example, the @ symbol in front of a variable is implemented every single time the database is opened. Likewise, I would add the security functionality from the login page that uses the prepared statement with the variable values as parameters every time the user inputs data. Right now the site is secure from the outside, but slightly less secure on the inside. In the future, if I were to add functionality for a user registration, it would be important to make sure that invited users are not logging in just to run malicious code while inserting items to their cart, for example.

One missing area from this website is the admin's ability to review receipts.

Unfortunately, the current implementation would not allow the admin to view orders and send the products to the users who ordered them. However, this could be implemented easily by

running a query on the receipt table to select all the columns for every row. Without the capacity for real transactions to take place, and with limiting time constraints, this view was left out. It would certainly be one of the first areas, if not the first, to implement in an updated version of the website.

The final area I would keep working on is streamlining the website so there are fewer forms for both types of users to fill out. This was briefly mentioned as part of the database table designs in section 9, but in general, I think it would be possible for, in the case of the admin, to provide a toggle for insert, modify, and delete, instead of having three separate forms for each type of product type. With more time, there is likely a way to implement the admin capabilities in one or two forms. This would provide a simple view for the admin, who is not a database designer.

Appendix

```
</div>
FairVisions_front_page.php
<html>
<head>
                                                                       <div class="column">
<div><title>Fair Visions</title></div>
                                                                                <center><img src='../data/IMG_5452.JPG'</pre>
</head>
                                                                      alt='Front Page Band Photo' width='468'
                                                                      height='607.8'></center>
                                                                       </div>
<style>
 box-sizing: border-box;
                                                                       <div class="column">
                                                                                <center><a
                                                                      href='https://open.spotify.com/artist/7I8Ln0Su1y5A3qPk6O1t
                                                                      2H?si=dG5bK3dWQeK0D6jT5CJapw'
.column {
 float: left:
                                                                      style="font-family:Tahoma,
                                                                      serif;">Spotify</a></center></body>
 width: 33.33%;
 padding: 10px;
                                                                       </div>
                                                                      <body>
a:link, a:visited {
                                                                      </html>
          background-color: white;
          color: black;
          border: 2px solid green;
                                                                      Login_Page.php
          padding: 10px 20px;
                                                                      <style>
          text-align: center;
                                                                      * {
          text-decoration: none;
                                                                       box-sizing: border-box;
          display: inline-block;
                                                                      .form {
a:hover, a:active {
                                                                       background-color: white;
 background-color: green;
                                                                       width: 500px;
 color: white;
                                                                       border: 5px solid black;
                                                                       padding: 50px;
</style>
                                                                       margin: 30px;
                                                                       text-align: left;
<h1 style="font-family:Arial Black"><center>Fair
                                                                      </style>
Visions</center></h1>
                                                                      <center><div class="form">
 <div class="column">
                                                                       <h1>Please Log In</h1>
          <center><a href='data/Login Page.php'</pre>
                                                                        <form method="post" action="Login Check.php">
style="font-family:Tahoma, serif;"> Login here </a></center>
                                                                          Email: <input type="text" name="email">
```

```
Password: <input type="password"
                                                                     }
name="password">
   <input type="submit" name="submit" value="Log
                                                                   else {
In">
                                                                     echo "Unable to identify User Role"; ?>
  </form>
                                                                        <form method="post" action="Login Page.php">
</div></center>
                                                                        <input type="submit" name="return"
                                                                 value="return">
                  -----
                                                                        </form>
Login_Check.php
                                                                        <?php exit();
<?php
                                                                   }
  $email = $_POST['email'];
                                                                                    -----
  $password = $_POST['password'];
                                                                 admin_page.php
  if (!$email || !$password) {
                                                                 <html>
  echo "Missing email and/or password."; ?>
                                                                 <head>
    <form method="post" action="Login Page.php">
                                                                 <style>
    <input type="submit" name="return"
                                                                 * {
value="return">
                                                                  box-sizing: border-box;
    </form>
    <?php exit();
                                                                 .form {
                                                                  background-color: white;
  @ $mysql = new mysqli('localhost:3306', 'sternm2',
                                                                  width: 500px;
'Breakbot123', 'sternm2 FAIR VISIONS');
                                                                  border: 5px solid black;
  if ($mysql -> connect errno) {
                                                                  padding: 50px;
    echo "Failed to connect to MySQL: " . $mysqli ->
                                                                  margin: 30px;
                                                                  text-align: left;
      <form method="post" action="Login Page.php">
      <input type="submit" name="return"
value="return">
                                                                 .column {
      </form>
                                                                  float: left:
      <?php exit();
                                                                  width: 50%:
                                                                  padding: 10px;
  $query = "select Email, Pwd, Role
                                                                 </style>
       from User
                                                                 </head>
       where Email = ? and Pwd = ?";
  $stmt = $mysql->prepare($query);
                                                                  <center><div class="column">
  $stmt->bind param('ss', $email, sha1($password));
                                                                   <h1>Music</h1>
  $stmt->execute();
                                                                    <body>
                                                                     <div class="form">
  if(!$stmt) {
                                                                     <h1>Insert Music</h1>
    echo "Cannot run guerv.": ?>
                                                                        <form method="post" action="insert_music.php">
      <form method="post" action="Login Page.php">
                                                                        Name: <input type="text" name="name">
      <input type="submit" name="return"
                                                                        Price: <input type="text" name="price">
                                                                        Quantity: <input type="text"
value="return">
      </form>
                                                                 name="quantity">
      <?php exit();
                                                                        >Description: <textarea id="description"</p>
                                                                 name="description" rows="2" cols="40"></textarea>
                                                                        Format: 
  $result = $stmt->get result();
                                                                        <input type="radio" id="mp3" name="format"
  $row = $result->fetch row();
                                                                 value="mp3">
  $num results = $result->num rows;
                                                                          <label for="mp3">mp3</label><br>
                                                                        <input type="radio" id="WAV" name="format"
                                                                 value="WAV">
  if ($num results > 0) {
    if ($row[2] == "Admin") {
                                                                          <label for="WAV">WAV</label><br>
      header("Location: admin page.php");
                                                                        <input type="radio" id="CD" name="format"
                                                                 value="CD">
    elseif ($row[2] == "Customer") {
                                                                          <label for="CD">CD</label><br>
      header("Location:
                                                                        <input type="radio" id="Vinyl" name="format"
customer_page.php?email=$email");
                                                                 value="Vinyl">
```

<label for="Vinyl">Vinyl</label>	<h1>Insert Merch</h1>
<input <="" id="Cassette" name="format" td="" type="radio"/> <td><pre><form action="insert_merch.php" method="post"></form></pre></td>	<pre><form action="insert_merch.php" method="post"></form></pre>
value="Cassette">	Name: <input name="name" type="text"/>
<label for="Cassette">Cassette</label>	Price: <input name="price" type="text"/>
	Quantity: <input <="" p="" type="text"/>
<input <="" name="submit" td="" type="submit"/> <td>name="quantity"></td>	name="quantity">
value="Insert">	Contains quantity of the contained qua
	name="description" rows="2" cols="40">
	<
7 GIV-	<input <="" id="clothing" name="type" td="" type="radio"/>
<div class="form"></div>	value="clothing">
<h1>Search Music</h1>	<pre><label for="clothing">clothing</label> </pre>
<pre><form <="" action="music search results.php" pre=""></form></pre>	<input <="" id="item" name="type" td="" type="radio"/>
method="post">	value="item">
•	
Select Format(s): signature and the selection of the	item /label> item /label item /label <a< td=""></a<>
<input <="" id="mp3" name="format[]" td="" type="checkbox"/> <td>Size (for clothing only):</td>	Size (for clothing only):
value="mp3">	<input <="" id="small" name="size" td="" type="radio"/>
<a "="" href="https://www.news.com/s/label>">https://www.news.com/s/label>">https://www.news.com/s/label>">https://www.news.com/s/label	value="small">
<input <="" id="WAV" name="format[]" td="" type="checkbox"/> <td><pre><label for="small">small</label> </pre></td>	<pre><label for="small">small</label> </pre>
value="WAV">	<pre><input <="" id="large" name="size" pre="" type="radio"/></pre>
<label for="WAV">WAV</label>	value="large">
<pre><input <="" id="CD" name="format[]" pre="" type="checkbox"/></pre>	<label for="large">large</label>
value="CD">	<input <="" name="submit" td="" type="submit"/>
<label for="CD">CD</label>	value="Insert">
<input <="" id="Vinyl" name="format[]" td="" type="checkbox"/> <td></td>	
value="Vinyl">	
<label for="Vinyl">Vinyl</label>	
<input <="" id="Casette" td="" type="checkbox"/> <td><div class="form"></div></td>	<div class="form"></div>
name="format[]" value="Casette">	<h1>Search Merch</h1>
<label for="Casette">Casette</label>	<pre><form <="" action="merch_search_results.php" pre=""></form></pre>
Name: 	method="post">
<input name="Name" size="40" type="text"/>	Select Type(s):
<input <="" name="submit" td="" type="submit"/> <td><pre><input <="" id="clothing" name="type[]" pre="" type="checkbox"/></pre></td>	<pre><input <="" id="clothing" name="type[]" pre="" type="checkbox"/></pre>
value="Search">	value="clothing">
	<pre><label for="clothing">clothing</label></pre>
	<pre><input <="" id="item" name="type[]" pre="" type="checkbox"/></pre>
	value="item">
<div class="form"></div>	<pre><label for="item">item</label></pre>
<h1>Delete Music</h1>	Name: <p< td=""></p<>
<pre><form <="" method="post" pre=""></form></pre>	<input name="name" size="40" type="text"/>
action="delete_music_check.php">	<input <="" name="search" td="" type="submit"/>
<pre>detion= delete_masis_oriest.prip =</pre>	value="Search">
<input name="delete" type="submit" value="Delete"/>	
	and the second
and the second	<div class="form"></div>
<div class="form"></div>	<h1>Delete Merch</h1>
<h1>Modify Music</h1>	<form <="" method="post" td=""></form>
<form <="" method="post" td=""><td>action="delete_merch_check.php"></td></form>	action="delete_merch_check.php">
action="modify_music_check.php">	ID: <input name="ID" type="text"/>
ID: <input name="ID" type="text"/>	<input name="delete" type="submit" value="Delete"/>
<input name="modify" type="submit" value="Modify"/>	
	<div class="form"></div>
	<h1>Modify Merch</h1>
	<form <="" method="post" td=""></form>
<center><div class="column"></div></center>	action="modify_merch_check.php">
<h1>Merchandise</h1>	ID: <input name="ID" type="text"/>
 	<input :<="" name="modify" td="" type="submit" value="Modify"/>
<div class="form"></div>	

```
</div>
                                                                        <input type="submit" name="return"
   </body>
                                                                    value="return">
 </div></center>
                                                                        </form>
                                                                        <?php exit();
</html>
                                                                      $query = "select Name, Format
insert music.php
                                                                           from Music
<html>
                                                                           where Name = \"$name\" and Format = \"$format\"";
<head>
 <title>Music Product Entry Results</title>
                                                                      $result = $db->query($query);
</head>
<body>
                                                                      if (!$result) {
<h1>Music Product Entry Results</h1>
                                                                        echo "Query failed to execute"; ?>
                                                                        <form method="post" action="admin_page.php">
                                                                        <input type="submit" name="return"
 $name=ucwords(strtolower($ POST['name']));
                                                                    value="return">
 $description=$ POST['description'];
                                                                        </form>
 $price=$ POST['price'];
                                                                        <?php exit();
 $format=$ POST['format'];
                                                                     }
 $quantity=$ POST['quantity'];
                                                                      $num_results = $result->num_rows;
 $bad=0;
                                                                      if ($num results > 0) {
 if (!$name) {
                                                                        echo 'Item already exists.'; ?>
   echo "Missing name";
                                                                        <form method="post" action="admin_page.php">
   $bad=1;
                                                                        <input type="submit" name="return"
                                                                    value="return">
                                                                        </form>
 if (!$format) {
                                                                        <?php exit();
   echo "Missing format";
   $bad=1:
                                                                      $query = "INSERT INTO Music (Name, Format, Price,
                                                                    Quantity, Description)
 if (!$price) {
   echo "Missing price";
                                                                           VALUES (\"$name\", \"$format\", \"$price\",
   $bad=1;
                                                                    \"$quantity\", \"$description\")";
                                                                      $result = $db->query($query);
 if (!$quantity) {
   echo "Missing quantity";
                                                                      if ($result) {
   $bad=1;
                                                                        echo $db->affected rows." music items were properly
                                                                    inserted into database.";
 if ($bad>0) {
                                                                     } else {
   exit(1);
                                                                               echo "An error has occurred. The item was not
                                                                    added.":
 }
 if (!get magic guotes gpc()) {
  $name = addslashes($name);
                                                                        <form method="post" action="admin page php">
  $description = addslashes($description);
                                                                        <input type="submit" name="return"
  $format = addslashes($format);
                                                                    value="return">
  $price = addslashes($price);
                                                                        </form>
  $quantity = doubleval($quantity);
                                                                        <?php exit();
                                                                      $db->close();
 }
 @ $db = new mysgli('localhost:3306', 'sternm2',
'Breakbot123', 'sternm2 FAIR VISIONS');
                                                                    </body>
                                                                    </html>
 if (mysqli connect errno()) {
   echo "Error: Could not connect to database. Please try
again later."; ?>
                                                                    music search results.php
   <form method="post" action="admin_page.php">
                                                                    <html>
                                                                    <head>
```

```
echo "</strong><br />Name: ";
 <title>Music Search Results</title>
</head>
                                                                         echo stripslashes($row['Name']);
<body>
                                                                         echo "<br/>Price: $";
<h1>Music Search Results</h1>
                                                                         echo stripslashes($row['Price']);
<?php
                                                                         echo "<br />Quantity: ";
                                                                         echo stripslashes($row['Quantity']);
 $format=$ POST['format'];
                                                                         echo "<br />Format: ";
 $name=trim($ POST['name']);
                                                                         echo stripslashes($row['Format']);
 $format_str = ";
                                                                         echo "<br />Description: ";
                                                                         echo stripslashes($row['Description']);
 if (!get_magic_quotes_gpc()){
                                                                         echo "";
  if (count($format) > 0) {
     $a = [];
     foreach ($format as $f) {
                                                                       $result->free();
       $f = """ . addslashes($f) . """;
                                                                       $db->close();
       a[] = f;
                                                                      ?>
     format str = join(',', $a);
                                                                      </body>
                                                                      </html>
  $name = addslashes($name);
                                                                      delete_music_check.php
 @ $db = new mysqli('localhost:3306', 'sternm2',
                                                                      <html>
'Breakbot123', 'sternm2 FAIR VISIONS');
                                                                      <head>
                                                                       <title>Music Deletion Results Check</title>
 if (mysgli connect errno()) {
                                                                      </head>
   echo 'Error: Could not connect to database. Please try
                                                                      <style>
again later.';
                                                                      * {
  exit;
                                                                       box-sizing: border-box;
 }
                                                                      }
 if ($format str && $name) {
  $query = "select * from Music where Name like
                                                                       background-color: white;
'%".$name."%' and Format in
                                                                       width: 500px;
                                                                       border: 5px solid black;
     (".\format str.")";
                                                                       padding: 50px;
 elseif ($format str) {
                                                                       margin: 30px;
  $query = "select * from Music where Format in
                                                                       text-align: left;
(".\format str.")";
                                                                      </style>
 }
 elseif ($name) {
  $query = "select * from Music where Name like
                                                                      <center><body>
'%".$name."%";
                                                                      <div class="form">
 }
                                                                         <h1>Music Deletion Results Check</h1>
 else {
                                                                         <?php
  $query = "select * from Music";
                                                                          $id = (int)$ POST['ID'];
 $result = $db->query($query);
                                                                          @ $db = new mysgli('localhost:3306', 'sternm2',
 if (!$result) {
                                                                      'Breakbot123', 'sternm2 FAIR VISIONS');
   echo "Query failed to execute";
                                                                          if (mysqli connect errno()) {
 }
                                                                             echo 'Error: Could not connect to database. Please
 $num_results = $result->num_rows;
                                                                      try again later.'; ?> <br /><br />
                                                                               <form method="post" action="admin_page.php">
 echo "Number of items found: ".$num results."";
                                                                                <input type="submit" name="return"
                                                                      value="return">
 for ($i=0; $i <$num results; $i++) {
                                                                                </form>
   $row = $result->fetch assoc();
                                                                               <?php exit();
   echo "<strong>".($i+1).". ID: ";
                                                                          }
   echo htmlspecialchars(stripslashes($row['ID']));
```

```
if ($id > 0) {
                                                                         Please re-enter the ID to permanently delete: <input</p>
      $query = "select * from Music where ID = $id";
                                                                    type="text" name="ID" value="<?php echo $id?>"
   }
                                                                    readonly>
   else {
                                                                         <input type="submit" name="delete" value="Delete">
      echo "Music Product ID: [$id] is invalid. No deletion
                                                                         <input type="hidden" name="hid" value="<?php $id?>">
will be made."; ?> <br /><br />
                                                                        </form>
        <form method="post" action="admin_page.php">
                                                                        <br /><br />
         <input type="submit" name="return"
                                                                        <form method="post" action="admin_page.php">
value="return">
                                                                         <input type="submit" name="return"
         </form>
                                                                    value="return">
                                                                        </form>
        <?php exit();
   }
                                                                    </div>
                                                                    </body></center>
   $result = $db->query($query);
                                                                    </html>
   if (!$result) {
                                                                                     _____
      echo "Query failed to execute"; ?> <br /><br />
        <form method="post" action="admin_page.php">
                                                                    delete music.php
         <input type="submit" name="return"
                                                                    <html>
value="return">
                                                                    <head>
         </form>
                                                                     <title>Music Product Deletion Results</title>
        <?php exit();
                                                                    </head>
   }
                                                                    <style>
   $num results = $result->num rows;
                                                                    * {
                                                                     box-sizing: border-box;
   if ($num results == 0) {
                                                                    }
      echo 'No match was found.'; ?> <br /> <br />
        <form method="post" action="admin_page.php">
                                                                    .form {
         <input type="submit" name="return"
                                                                     background-color: white;
value="return">
                                                                     width: 500px;
         </form>
                                                                     border: 5px solid black;
        <?php exit();
                                                                     padding: 50px;
   }
                                                                     margin: 30px;
                                                                     text-align: left:
   echo "Is this the item you wish to delete?<br />";
                                                                    </style>
   for ($i=0; $i <$num results; $i++) {
      $row = $result->fetch assoc();
                                                                    <center><div class="form"><body>
      echo "<strong>".($i+1).". ID: ";
                                                                    <h1>Music Product Deletion Results</h1>
      echo htmlspecialchars(stripslashes($row['ID']));
                                                                    <?php
      echo "</strong><br />Name: ";
      echo stripslashes($row['Name']);
                                                                     $id = $ POST['ID'];
      echo "<br/>
Price: $":
                                                                     $hid = $POST['hid'];
      echo stripslashes($row['Price']):
      echo "<br />Quantity: ":
                                                                     if (!get magic quotes gpc()) {
      echo stripslashes($row['Quantity']):
                                                                        $id = addslashes($id):
      echo "<br />Format: ";
                                                                     }
      echo stripslashes($row['Format']);
      echo "<br />Description: ";
                                                                     @ $db = new mysgli('localhost:3306', 'sternm2',
      echo stripslashes($row['Description']);
                                                                    'Breakbot123', 'sternm2 FAIR VISIONS');
      echo "";
                                                                     if (mysqli connect errno()) {
   }
                                                                        echo 'Error: Could not connect to database. Please try
   $result->free():
                                                                    again later.'; ?> <br /><br />
   $db->close();
                                                                            <form method="post" action="admin_page.php">
                                                                              <input type="submit" name="return"
                                                                    value="return">
                                                                              </form>
   <form method="post" action="delete music.php">
                                                                            <?php exit();
                                                                     $query = "select ID from Music where ID = $id";
```

```
<html>
 $result = $db->query($query);
                                                                    <head>
 if (!$result) {
                                                                     <title>Music Modification Results Check</title>
   echo "Query failed to execute"; ?> <br /><br />
                                                                    </head>
        <form method="post" action="admin_page.php">
                                                                    <style>
         <input type="submit" name="return"
                                                                    * {
value="return">
                                                                     box-sizing: border-box;
         </form>
        <?php exit();
 }
                                                                    .form {
                                                                     background-color: white;
                                                                     width: 500px;
 $num_results = $result->num_rows;
                                                                     border: 5px solid black;
 if ($num results == 0) {
                                                                     padding: 50px;
   echo 'No match was found.'; ?> <br /> <br />
                                                                     margin: 30px;
        <form method="post" action="admin_page.php">
                                                                     text-align: left;
         <input type="submit" name="return"
value="return">
                                                                    </style>
         </form>
        <?php exit();
                                                                    <center><div class="form">
 }
                                                                    <body>
                                                                    <h1>Music Modification Results Check</h1>
 if ($id) {
                                                                    <?php
   $query = "delete from Music where ID = $id";
                                                                     $id = (int)$ POST['ID'];
 else {
   echo 'Music Product ID was not entered. No deletion will
                                                                     @ $db = new mysgli('localhost:3306', 'sternm2',
be made.': ?> <br /><br />
                                                                    'Breakbot123', 'sternm2 FAIR VISIONS');
        <form method="post" action="admin_page.php">
         <input type="submit" name="return"
                                                                     if (mysqli connect errno()) {
value="return">
                                                                       echo 'Error: Could not connect to database. Please try
         </form>
                                                                    again later.'; ?> <br /><br />
        <?php exit();
                                                                            <form method="post" action="admin_page.php">
                                                                              <input type="submit" name="return"
 }
                                                                    value="return">
 $result = $db->query($query);
                                                                              </form>
 if (!$result) {
                                                                            <?php exit();
   echo "Deletion failed to execute"; ?> <br /><br />
                                                                     }
        <form method="post" action="admin_page.php">
         <input type="submit" name="return"
                                                                     if ($id > 0) {
value="return">
                                                                       $query = "select * from Music where ID = $id";
         </form>
                                                                     }
        <?php exit();
                                                                     else {
                                                                       echo "Music Product ID: [$id] is invalid. No deletion will
 }
                                                                    be made.": ?> <br /><br />
 echo "Item successfully deleted<br />";
                                                                            <form method="post" action="admin_page.php">
                                                                              <input type="submit" name="return"
 $db->close(); ?> <br /><br />
                                                                    value="return">
        <form method="post" action="admin_page.php">
                                                                              </form>
         <input type="submit" name="return"
                                                                            <?php exit();
value="return">
                                                                     }
         </form>
        <?php
                                                                     $result = $db->query($query);
                                                                     if (!$result) {
                                                                       echo "Query failed to execute"; ?> <br /><br />
                                                                            <form method="post" action="admin_page.php">
                                                                              <input type="submit" name="return"
</body></div></center>
                                                                    value="return">
</html>
                                                                              </form>
                                                                            <?php exit();
modify_music_check.php
                                                                     }
```

```
$num results = $result->num rows;
                                                                  value="Cassette">
                                                                       <label for="Cassette">Cassette</label><br>
if ($num results == 0) {
   echo 'Item not found.'; ?> <br /><br />
                                                                     Quantity: <input type="text" name="quantity">
        <form method="post" action="admin_page.php">
                                                                     >Description: <textarea id="description"</p>
         <input type="submit" name="return"
                                                                   name="description" rows="6" cols="40"></textarea>
value="return">
                                                                     <input type="submit" name="make changes" value="make
         </form>
                                                                   changes">
        <?php exit();
                                                                     <input type="hidden" id="hid_name" name="hid_name"
}
                                                                   value="<?php echo $name?>">
                                                                     <input type="hidden" id="hid_format" name="hid_format"
echo "Is this the item you wish to modify?<br />";
                                                                   value="<?php echo $format?>">
                                                                    </form>
for ($i=0; $i <$num results; $i++) {
    $row = $result->fetch assoc();
                                                                    <form method="post" action="admin_page.php">
    echo "<strong>".($i+1).". ID: ";
                                                                    <input type="submit" name="return"
    echo htmlspecialchars(stripslashes($row['ID']));
                                                                   value="return">
    echo "</strong><br />Name: ";
                                                                    </form>
   $name = $row['Name'];
    echo stripslashes($name);
                                                                   </body></div></center>
    echo "<br />Price: $";
                                                                   </html>
    $price = $row['Price'];
                                                                                        echo stripslashes($price);
    echo "<br />Quantity: ";
                                                                   modify music.php
    $quantity = $row['Quantity'];
                                                                   <html>
    echo stripslashes($quantity);
                                                                   <head>
    echo "<br />Format: ";
                                                                    <title>Music Product Modification Results</title>
    $format = $row['Format'];
                                                                   </head>
    echo stripslashes($format);
    echo "<br />Description: ";
                                                                   <style>
    $description = $row['Description'];
                                                                   * {
    echo stripslashes($description);
                                                                    box-sizing: border-box;
   echo "";
                                                                  }
}
                                                                   .form {
$result->free();
                                                                    background-color: white;
$db->close();
                                                                    width: 500px;
                                                                    border: 5px solid black;
?>
                                                                    padding: 50px;
                                                                    margin: 30px;
 <form method="post" action="modify music.php">
                                                                    text-align: left;
  Enter Change(s):<br/>
  ID: <input type="text" name="id" value="<?php echo
                                                                   </style>
$id?>" readonly>
  Name: <input type="text" name="name">
                                                                   <center><div class="form">
  Price: <input type="text" name="price">
                                                                   <h1>Music Product Modification Results</h1>
  Format: <br />
                                                                   <?php
  <input type="radio" id="mp3" name="format"
value="mp3">
                                                                    id = (int) POST['id'];
    <label for="mp3">mp3</label><br>
                                                                    $name=ucwords(strtolower($ POST['name']));
  <input type="radio" id="WAV" name="format"
                                                                    $price = (float)$ POST['price'];
value="WAV">
                                                                    $quantity = (int)$ POST['quantity'];
    <label for="WAV">WAV</label><br>
                                                                    $format = $ POST['format'];
  <input type="radio" id="CD" name="format" value="CD">
                                                                    $description = $ POST['description'];
    <label for="CD">CD</label><br>
                                                                    $hid name = ucwords(strtolower($ POST['hid name']));
  <input type="radio" id="Vinyl" name="format"
value="Vinyl">
                                                                    $hid format = $ POST['hid format'];
    <label for="Vinyl">Vinyl</label><br>
                                                                    if (!get_magic_quotes_gpc()) {
```

<input type="radio" id="Cassette" name="format"

```
$id = addslashes($id);
 }
                                                                       $query = "update Music set Name = \"$name\" where ID
                                                                   = $id";
 @ $db = new mysgli('localhost:3306', 'sternm2',
                                                                       $result = $db->query($query);
'Breakbot123', 'sternm2 FAIR VISIONS');
                                                                       if (!$result) {
                                                                          echo "Name modification failed to execute"; ?> <br
 if (mysqli connect errno()) {
                                                                   /><br />
   echo 'Error: Could not connect to database. Please try
                                                                            <form method="post" action="admin_page.php">
again later.'; ?> <br /><br />
                                                                             <input type="submit" name="return"
                                                                   value="return">
        <form method="post" action="admin_page.php">
                                                                             </form>
         <input type="submit" name="return"
value="return">
                                                                            <?php exit();
         </form>
        <?php exit();
                                                                       else {
 }
                                                                          echo "Name successfully modified<br />";
                                                                       }
 $query = "select ID from Music where ID = $id";
                                                                    }
 $result = $db->query($query);
                                                                     if (!$name && $format) {
 if (!$result) {
                                                                       $query = "select Name, Format from Music where Name
   echo "Query failed to execute"; ?> <br /><br />
                                                                    = \"$hid name\" and Format = \"$format\"";
        <form method="post" action="admin_page.php">
         <input type="submit" name="return"
                                                                       $result = $db->query($query);
value="return">
         </form>
                                                                       if (!$result) {
        <?php exit();
                                                                          echo "Query failed to execute"; ?> <br /><br />
                                                                            <form method="post" action="admin_page.php">
 }
                                                                             <input type="submit" name="return"
 $num results = $result->num rows;
                                                                   value="return">
                                                                             </form>
 if ($num results == 0) {
                                                                            <?php exit();
   echo 'No match was found.'; ?> <br /> <br />
                                                                       }
        <form method="post" action="admin_page.php">
         <input type="submit" name="return"
                                                                       $num results = $result->num rows;
value="return">
         </form>
                                                                       if ($num results > 0) {
        <?php exit();
                                                                          echo 'Item already exists.'; ?> <br /><br />
                                                                            <form method="post" action="admin_page.php">
 }
                                                                             <input type="submit" name="return"
 if ($name && !$format) {
                                                                    value="return">
   $query = "select Name, Format from Music where Name
                                                                             </form>
= \"$name\" and Format = \"$hid format\"";
                                                                            <?php exit();
                                                                       }
   $result = $db->query($query);
                                                                       $query = "update Music set Format = \"$format\" where
   if (!$result) {
                                                                    ID = $id":
      echo "Query failed to execute"; ?> <br /><br />
                                                                       $result = $db->query($query);
        <form method="post" action="admin_page.php">
                                                                       if (!$result) {
         <input type="submit" name="return"
                                                                          echo "Name modification failed to execute"; ?> <br
value="return">
                                                                    /><br />
         </form>
                                                                            <form method="post" action="admin_page.php">
                                                                             <input type="submit" name="return"
        <?php exit();
   }
                                                                   value="return">
                                                                             </form>
   $num results = $result->num rows;
                                                                            <?php exit();
                                                                       }
   if ($num results > 0) {
                                                                       else {
      echo 'Item already exists.': ?>
                                                                         echo "Format successfully modified<br />";
      <a href="admin_page.php">Return</a>
      <?php exit;
                                                                    }
   }
```

```
if ($name && $format) {
   $query = "select Name, Format from Music where Name
= \"$name\" and Format = \"$format\"";
   $result = $db->query($query);
   if (!$result) {
      echo "Query failed to execute"; ?> <br /><br />
        <form method="post" action="admin_page.php">
         <input type="submit" name="return"
value="return">
         </form>
        <?php exit();
   }
   $num results = $result->num rows;
   if ($num results > 0) {
      echo 'Item already exists.'; ?> <br /><br />
        <form method="post" action="admin_page.php">
         <input type="submit" name="return"
value="return">
         </form>
        <?php exit();
   }
   $query = "update Music set Name = \"$name\", Format =
\"$format\" where ID = $id";
   $result = $db->query($query);
   if (!$result) {
     echo "Name modification failed to execute"; ?> <br
/><br />
        <form method="post" action="admin_page.php">
         <input type="submit" name="return"
value="return">
         </form>
        <?php exit();
   }
   else {
     echo "Format and Name successfully modified<br
/>";
   }
}
 if ($price) {
   $query = "update Music set Price = \"$price\" where ID =
   $result = $db->query($query);
   if (!$result) {
     echo "Price modification failed to execute"; ?> <br
/><br />
        <form method="post" action="admin_page.php">
         <input type="submit" name="return"
value="return">
         </form>
        <?php exit();
   }
   else {
      echo "Price successfully modified<br />";
   }
 }
```

```
if ($quantity) {
   $query = "update Music set Quantity = \"$quantity\"
where ID = $id";
   $result = $db->query($query);
   if (!$result) {
     echo "Quantity modification failed to execute"; ?> <br
/><br />
        <form method="post" action="admin_page.php">
         <input type="submit" name="return"
value="return">
         </form>
        <?php exit();
   }
      echo "Quantity successfully modified<br />";
   }
}
 if ($description) {
   $query = "update Music set Description = \"$description\"
where ID = $id";
   $result = $db->query($query);
   if (!$result) {
     echo "Description modification failed to execute"; ?>
<br /><br />
        <form method="post" action="admin_page.php">
         <input type="submit" name="return"
value="return">
         </form>
        <?php exit();
   }
   else {
     echo "Description successfully modified<br
/>";
}
 $db->close();
<form method="post" action="admin_page.php">
 <input type="submit" name="return"
value="return">
</form>
</body></div></center>
</html>
```

```
insert_merch.php
<html>
                                                                         @ $db = new mysqli('localhost:3306', 'sternm2',
<head>
                                                                     'Breakbot123', 'sternm2 FAIR VISIONS');
 <title>Merch Product Entry Results</title>
</head>
                                                                         if (mysgli connect errno()) {
                                                                          echo "Error: Could not connect to database. Please try
<style>
                                                                     again later."; ?> <br /><br />
* {
                                                                              <form method="post" action="admin_page.php">
 box-sizing: border-box;
                                                                               <input type="submit" name="return"
                                                                     value="return">
}
                                                                               </form>
.form {
                                                                              <?php exit();
 background-color: white;
                                                                         }
 width: 500px;
 border: 5px solid black;
                                                                         $query = "select Name, Type, Description
 padding: 50px;
 margin: 30px;
                                                                            where Name = \"$name\" and Format = \"$format\"
 text-align: left;
                                                                     and Description = \"$description\"";
</style>
                                                                         $result = $db->query($query);
<body>
                                                                         if (!$result) {
<div class="form">
                                                                           echo "Query failed to execute"; ?>
  <h1>Merch Product Entry Results</h1>
                                                                           <form method="post" action="admin page.php">
                                                                           <input type="submit" name="return"
                                                                     value="return">
   $name = ucwords(strtolower($ POST['name']));
                                                                           </form>
   $description = $ POST['description'];
                                                                           <?php exit();
   $price = (float)$ POST['price'];
   $type = $ POST['type'];
   $quantity = (int)$ POST['quantity'];
                                                                         $num results = $result->num rows;
   $size = $ POST['size'];
                                                                         if ($num results > 0) {
   if ($type == 'clothing' && !$size) {
                                                                           echo 'Item already exists.'; ?>
      echo "Clothing insert must have a size."; ?> <br /><br
                                                                           <form method="post" action="admin page.php">
                                                                           <input type="submit" name="return"
/>
        <form method="post" action="admin_page.php">
                                                                     value="return">
         <input type="submit" name="return"
                                                                           </form>
value="return">
                                                                           <?php exit();
         </form>
                                                                         }
        <?php exit();
   }
                                                                         $query = "insert into Merchandise (Name, Description,
                                                                     Price, Type, Size, Quantity)
                                                                               values (\"$name\", \"$description\", \"$price\",
   if ($type == 'item' && $size) {
      echo "Items have no size.": ?> <br /><br />
                                                                     \"$tvpe\". \"$size\". \"$quantitv\")":
        <form method="post" action="admin_page.php">
                                                                         $result = $db->query($query);
         <input type="submit" name="return"
value="return">
                                                                         if ($result) {
         </form>
                                                                           echo " $size Merch was properly inserted into
                                                                     database.";
        <?php exit();
   }
                                                                         } else {
                                                                                echo "An error has occurred. The item was not
   if (!$name || !$price || !$type || !$quantity) {
                                                                     added.":
      echo "Missing name, price, type, or quantity."; ?> <br
                                                                         ?> <br /><br />
/><br />
        <form method="post" action="admin_page.php">
                                                                             <form method="post" action="admin_page.php">
         <input type="submit" name="return"
                                                                               <input type="submit" name="return"
value="return">
                                                                     value="return">
         </form>
                                                                               </form>
        <?php exit();
                                                                             <?php exit();
   }
```

```
echo "Query failed to execute"; ?> <br /><br />
   $db->close();
                                                                             <a href="admin_page.php">Return</a>
  ?>
                                                                            <?php exit;
  </div>
</body>
</html>
                                                                        $num results = $result->num rows;
                                                                        echo "Number of items found: ".$num results."";
merch_search_results.php
<html>
                                                                        for ($i=0; $i <$num_results; $i++) {
<head>
                                                                         $row = $result->fetch_assoc();
 <title>Merch Search Results</title>
                                                                         echo "<strong>".($i+1).". ID: ";
                                                                         echo htmlspecialchars(stripslashes($row['ID']));
</head>
<body>
                                                                         echo "</strong><br />Name: ";
<h1>Merch Search Results</h1>
                                                                         echo stripslashes($row['Name']);
                                                                         echo "<br />Description: ";
<?php
                                                                         echo stripslashes($row['Description']);
 $type = $ POST['type'];
                                                                         echo "<br/>Price: $";
 $name = ucwords(strtolower($ POST['name']));
                                                                         echo stripslashes($row['Price']);
 $type str = ";
                                                                         echo "<br />Type: ";
                                                                         echo stripslashes($row['Type']);
 if (!get_magic_quotes_gpc()){
                                                                         echo "<br />Size: ";
  if (count(\$type) > 0) {
                                                                         echo stripslashes($row['Size']);
                                                                         echo "<br />Quantity: ";
     $a = [];
     foreach ($type as $f) {
                                                                         echo stripslashes($row['Quantity']);
       $f = """ . addslashes($f) . """;
                                                                         echo "";
       a[] = f;
     type_str = join(',', $a);
                                                                        $result->free();
                                                                       $db->close();
  $name = addslashes($name);
                                                                      ?> <br /><br />
                                                                         <a href="admin_page.php">Return</a>
 @ $db = new mvsqli('localhost:3306', 'sternm2',
                                                                        </body>
'Breakbot123', 'sternm2 FAIR VISIONS');
                                                                      </html>
 if (mysgli connect errno()) {
   echo 'Error: Could not connect to database. Please try
                                                                      delete merch check.php
again later.'; ?> <br /><br />
                                                                      <html>
      <a href="admin_page.php">Return</a>
                                                                      <head>
      <?php exit;
                                                                       <title>Merch Deletion Results Check</title>
 }
                                                                      </head>
 if ($type str && $name) {
                                                                      <stvle>
  $query = "select * from Merchandise where Name like
                                                                      * {
'%".$name."%' and Type in (".$type str.")";
                                                                       box-sizing: border-box;
                                                                      }
 elseif ($type_str) {
  $query = "select * from Merchandise where Type in
                                                                      .form {
                                                                       background-color: white;
(".$type_str.")";
                                                                       width: 500px;
                                                                       border: 5px solid black;
 elseif ($name) {
  $query = "select * from Merchandise where Name like
                                                                       padding: 50px;
'%".$name."%";
                                                                       margin: 30px;
                                                                       text-align: left;
 else {
                                                                      }
  $query = "select * from Merchandise";
                                                                      </style>
                                                                      <center><div class="form"><body>
 $result = $db->query($query);
                                                                      <h1>Merch Deletion Results Check</h1>
 if (!$result) {
                                                                      <?php
```

```
echo stripslashes($row['Price']);
 id = (int) POST['ID'];
                                                                       echo "<br />Type: ";
                                                                       echo stripslashes($row['Type']);
 @ $db = new mysgli('localhost:3306', 'sternm2',
                                                                       echo "<br />Size: ";
'Breakbot123', 'sternm2 FAIR VISIONS');
                                                                       echo stripslashes($row['Size']);
                                                                       echo "<br />Quantity: ";
 if (mysqli connect errno()) {
                                                                       echo stripslashes($row['Quantity']);
   echo 'Error: Could not connect to database. Please try
                                                                       echo "";
again later.'; ?> <br /><br />
        <form method="post" action="admin_page.php">
                                                                     $result->free();
         <input type="submit" name="return"
value="return">
                                                                     $db->close();
         </form>
        <?php exit();
                                                                    2>
 }
                                                                     <form method="post" action="delete merch.php">
 if ($id > 0) {
                                                                      Please re-enter the ID to permanently delete: <input</p>
   $query = "select * from Merchandise where ID = $id";
                                                                    type="text" name="ID" value="<?php echo $id?>"
                                                                    readonly>
                                                                      <input type="submit" name="delete" value="Delete">
   echo "Merchandise Product ID: [$id] is invalid. No
                                                                      <input type="hidden" name="hid" value="<?php $id?>">
deletion will be made."; ?> <br /><br />
                                                                     </form>
                                                                     <br /><br />
        <form method="post" action="admin_page.php">
         <input type="submit" name="return"
                                                                     <form method="post" action="admin_page.php">
value="return">
                                                                      <input type="submit" name="return"
         </form>
                                                                    value="return">
        <?php exit();
                                                                     </form>
 }
                                                                    </body></div></center>
 $result = $db->query($query);
                                                                    </html>
 if (!$result) {
                                                                                         -----
   echo "Query failed to execute"; ?> <br /><br />
        <form method="post" action="admin_page.php">
                                                                    delete merch.php
         <input type="submit" name="return"
                                                                    <html>
value="return">
                                                                    <head>
         </form>
                                                                     <title>Merchandise Product Deletion Results</title>
        <?php exit();
                                                                    </head>
 }
                                                                    <style>
 $num results = $result->num rows;
                                                                    * {
                                                                     box-sizing: border-box;
 if ($num results == 0) {
                                                                    }
   echo 'No match was found.': ?> <br /><br />
        <form method="post" action="admin_page.php">
                                                                    .form {
                                                                     background-color: white:
         <input type="submit" name="return"
value="return">
                                                                     width: 500px:
         </form>
                                                                     border: 5px solid black;
        <?php exit();
                                                                     padding: 50px;
                                                                     margin: 30px;
 }
                                                                     text-align: left;
 echo "Is this the item you wish to delete?<br />";
                                                                    </style>
 for ($i=0; $i <$num_results; $i++) {
   $row = $result->fetch assoc();
                                                                    <center><div class="form">
   echo "<strong>".($i+1).". ID: ";
                                                                    <body>
   echo htmlspecialchars(stripslashes($row['ID']));
                                                                    <h1>Merchandise Product Deletion Results</h1>
   echo "</strong><br />Name: ":
                                                                    <?php
   echo stripslashes($row['Name']);
   echo "<br />Description: ";
                                                                     $id = $ POST['ID'];
   echo stripslashes($row['Description']);
                                                                     $hid = $POST['hid'];
   echo "<br />Price: $";
```

```
<br /><br />
 if (!get_magic_quotes_gpc()) {
   $id = addslashes($id);
                                                                    <form method="post" action="admin_page.php">
 }
                                                                    <input type="submit" name="return"
                                                                   value="return">
 @ $db = new mysgli('localhost:3306', 'sternm2',
                                                                    </form>
'Breakbot123', 'sternm2 FAIR VISIONS');
                                                                    <?php exit();
 if (mysqli connect errno()) {
                                                                   ?>
   echo 'Error: Could not connect to database. Please try
                                                                   </body></div></center>
again later.'; ?> <br /><br />
        <form method="post" action="admin_page.php">
                                                                   </html>
                                                                           ----
         <input type="submit" name="return"
value="return">
         </form>
                                                                   modify_merch_check.php
        <?php exit();
                                                                   <html>
                                                                   <head>
 }
                                                                    <title>Merchandise Modification Results Check</title>
 $query = "select ID from Merchandise where ID = $id";
                                                                   </head>
                                                                   <style>
 $result = $db->query($query);
                                                                   * {
 if (!$result) {
                                                                    box-sizing: border-box;
   echo "Query failed to execute"; ?> <br /><br />
        <form method="post" action="admin_page.php">
         <input type="submit" name="return"
                                                                   .form {
value="return">
                                                                    background-color: white;
         </form>
                                                                    width: 500px;
        <?php exit();
                                                                    border: 5px solid black;
                                                                    padding: 50px;
 }
                                                                    margin: 30px;
 $num results = $result->num rows;
                                                                    text-align: left;
 if ($num results == 0) {
                                                                   </style>
   echo 'No match was found.'; ?> <br /> <br />
        <form method="post" action="admin_page.php">
                                                                   <center><div class="form">
         <input type="submit" name="return"
value="return">
                                                                   <h1>Merchandise Modification Results Check</h1>
         </form>
                                                                   <?php
        <?php exit();
 }
                                                                    $id = (int)$ POST['ID'];
 if ($id) {
                                                                    @ $db = new mysgli('localhost:3306', 'sternm2',
   $query = "delete from Merchandise where ID = $id";
                                                                   'Breakbot123', 'sternm2 FAIR VISIONS');
 else {
                                                                    if (mysqli connect errno()) {
   echo 'Music Product ID was not entered. No deletion will
                                                                       echo 'Error: Could not connect to database. Please try
be made.': ?> <br /><br />
                                                                   again later.': ?> <br /><br />
        <form method="post" action="admin_page.php">
                                                                           <form method="post" action="admin_page.php">
         <input type="submit" name="return"
                                                                             <input type="submit" name="return"
value="return">
                                                                   value="return">
         </form>
                                                                             </form>
        <?php exit();
                                                                           <?php exit();
 }
                                                                    }
 $result = $db->query($query);
                                                                    if ($id > 0) {
 if (!$result) {
                                                                       $query = "select * from Merchandise where ID = $id";
   echo "Deletion failed to execute";
                                                                    else {
                                                                       echo "Merchandise Product ID: [$id] is invalid. No
 echo "Item successfully deleted<br />";
                                                                   modification will be made."; ?> <br /><br />
                                                                           <form method="post" action="admin_page.php">
 $db->close(); ?>
```

```
<input type="submit" name="return"
                                                                      Enter Change(s):<br/>
value="return">
                                                                      ID: <input type="text" name="id" value="<?php echo
         </form>
                                                                    $id?>" readonly>
        <?php exit();
                                                                      Name: <input type="text" name="name">
 }
                                                                      Price: <input type="text" name="price">
                                                                      Tvpe: 
 $result = $db->query($query);
                                                                        <input type="radio" id="clothing" name="type"
 if (!$result) {
                                                                    value="clothing">
   echo "Query failed to execute"; ?> <br /><br />
                                                                           <label for="clothing">clothing</label><br>
        <form method="post" action="admin_page.php">
                                                                        <input type="radio" id="item" name="type"
                                                                    value="item">
         <input type="submit" name="return"
value="return">
                                                                           <label for="item">item</label><br>
         </form>
                                                                      Size (for clothing only): 
        <?php exit();
                                                                        <input type="radio" id="small" name="size"
 }
                                                                    value="small">
                                                                           <label for="small">small</label><br>
 $num results = $result->num rows;
                                                                         <input type="radio" id="medium" name="size"
                                                                    value="medium">
 if ($num results == 0) {
                                                                           <label for="medium">medium</label><br>
   echo 'Item not found.'; ?> <br /><br />
                                                                        <input type="radio" id="large" name="size"
        <form method="post" action="admin_page.php">
                                                                    value="large">
         <input type="submit" name="return"
                                                                           <label for="large">large</label><br>
value="return">
                                                                      Quantity: <input type="text" name="quantity">
         </form>
                                                                      >Description: <textarea id="description"</p>
                                                                    name="description" rows="6" cols="40"></textarea>
        <?php exit();
 }
                                                                      <input type="submit" name="make changes"
                                                                    value="make changes">
 echo "Is this the item you wish to modify?<br />";
                                                                     </form>
 for ($i=0; $i <$num results; $i++) {
                                                                     <form method="post" action="admin_page.php">
  $row = $result->fetch assoc();
                                                                    <input type="submit" name="return" value="return">
  echo "<strong>".($i+1).". ID: ";
                                                                     </form>
  id = \text{srow['ID']};
                                                                    </body></div></center>
   echo htmlspecialchars(stripslashes($id)):
                                                                    </html>
   echo "</strong><br />Name: ";
   $name = $row['Name'];
   echo stripslashes($name);
                                                                    modify merch.php
   echo "<br />Description: ";
                                                                    <html>
   $description = $row['Description'];
                                                                    <head>
   echo stripslashes($description);
                                                                     <title>Merchandise Product Modification Results</title>
   echo "<br/>Price: $";
                                                                    </head>
  $price = $row['Price'];
   echo stripslashes($price);
                                                                    <style>
   echo "<br/>tr/>Type: ":
                                                                    * {
   $tvpe = $row['Tvpe']:
                                                                     box-sizing: border-box:
   echo stripslashes($tvpe):
                                                                   }
   echo "<br />Size: ";
  $size = $row['Size'];
                                                                    .form {
   echo stripslashes($size);
                                                                     background-color: white;
   echo "<br />Quantity: ";
                                                                     width: 500px;
   $quantity = $row['Quantity'];
                                                                     border: 5px solid black;
   echo stripslashes($quantity);
                                                                     padding: 50px;
   echo "":
                                                                     margin: 30px;
 }
                                                                     text-align: left;
 $result->free():
                                                                    </style>
 $db->close():
                                                                    <center><div class="form">
                                                                    <h1>Merchandise Product Modification Results</h1>
<form method="post" action="modify merch.php">
                                                                    <?php
```

```
}
 id = (int) POST['id'];
 $name=ucwords(strtolower($ POST['name']));
                                                                     if ($price) {
 $price = (float)$_POST['price'];
                                                                        $query = "update Merchandise set Price = \"$price\"
 $quantity = (int)$ POST['quantity'];
                                                                    where ID = $id":
 $type = $ POST['type'];
                                                                        $result = $db->query($query);
 $description = $ POST['description'];
                                                                        if (!$result) {
 $size = $ POST['size'];
                                                                          echo "Price modification failed to execute"; ?> <br
                                                                    /><br />
 @ $db = new mysqli('localhost:3306', 'sternm2',
                                                                             <form method="post" action="admin_page.php">
                                                                              <input type="submit" name="return"
'Breakbot123', 'sternm2 FAIR VISIONS');
                                                                    value="return">
                                                                              </form>
 if (mysqli_connect_errno()) {
   echo 'Error: Could not connect to database. Please try
                                                                             <?php exit();
again later.'; ?> <br /><br />
        <form method="post" action="admin page.php">
         <input type="submit" name="return"
                                                                          echo "Price successfully modified<br />";
value="return">
                                                                       }
         </form>
                                                                     }
        <?php exit();
 }
                                                                     if ($quantity) {
                                                                        $query = "update Merchandise set Quantity =
                                                                    \"$quantity\" where ID = $id";
 $query = "select ID from Merchandise where ID = $id";
                                                                        $result = $db->query($query);
 $result = $db->query($query);
                                                                        if (!$result) {
 if (!$result) {
                                                                          echo "Quantity modification failed to execute"; ?> <br
                                                                    /><br />
   echo "Query failed to execute"; ?> <br /><br />
        <form method="post" action="admin_page.php">
                                                                             <form method="post" action="admin_page.php">
         <input type="submit" name="return"
                                                                              <input type="submit" name="return"
value="return">
                                                                    value="return">
         </form>
                                                                              </form>
        <?php exit();
                                                                             <?php exit();
 }
                                                                        else {
 $num_results = $result->num_rows;
                                                                          echo "Quantity successfully modified<br />";
                                                                       }
 if ($num results == 0) {
                                                                     }
   echo 'No match was found.'; ?> <br /> <br />
        <form method="post" action="admin_page.php">
                                                                     if ($description) {
         <input type="submit" name="return"
                                                                        $query = "update Merchandise set Description =
value="return">
                                                                    \"$description\" where ID = $id";
         </form>
                                                                        $result = $db->query($query);
        <?php exit();
                                                                        if (!$result) {
                                                                          echo "Description modification failed to execute"; ?>
 }
                                                                    <br /><br />
                                                                             <form method="post" action="admin_page.php">
 if ($name) {
   $query = "update Merchandise set Name = \"$name\"
                                                                              <input type="submit" name="return"
where ID = $id";
                                                                    value="return">
   $result = $db->query($query);
                                                                              </form>
   if (!$result) {
                                                                             <?php exit();
     echo "Name modification failed to execute"; ?> <br
/><br />
                                                                        else {
        <form method="post" action="admin_page.php">
                                                                          echo "Description successfully modified<br
         <input type="submit" name="return"
                                                                    />":
value="return">
         </form>
                                                                     }
        <?php exit();
                                                                     if ($type == 'item' && $size) {
   }
   else {
                                                                        echo "Items have no size": ?> <br /> <br />
      echo "Name successfully modified<br />";
                                                                             <form method="post" action="admin_page.php">
   }
```

```
<input type="submit" name="return"
                                                                              <input type="submit" name="return"
value="return">
                                                                    value="return">
         </form>
                                                                              </form>
        <?php exit();
                                                                             <?php exit();
 }
                                                                        if ($row['Type'] == 'item') {
 if ($type == 'item' && !$size) {
                                                                           echo "Type = Item. Cannot include size.";
   $query = "update Merchandise set Type = \"$type\", Size
= null where ID = $id";
                                                                        else {
   $result = $db->query($query);
                                                                           $query = "update Merchandise set Size = \"$size\"
   if (!$result) {
                                                                    where ID = $id";
      echo "Type modification failed to execute"; ?> <br
                                                                           $result = $db->query($query);
/><br />
                                                                           if (!$result) {
        <form method="post" action="admin_page.php">
                                                                             echo "Size modification failed to execute"; ?> <br
         <input type="submit" name="return"
                                                                     /><br />
value="return">
                                                                             <form method="post" action="admin_page.php">
         </form>
                                                                              <input type="submit" name="return"
        <?php exit();
                                                                     value="return">
   }
                                                                              </form>
                                                                             <?php exit();
      echo "Type successfully modified (Size set to
                                                                          }
null).<br />";
                                                                          else {
                                                                               echo "Size successfully modified<br />";
   }
 }
                                                                             }
                                                                        }
 if ($type == 'clothing' && $size) {
   $query = "update Merchandise set Type = \"$type\", Size
                                                                      $db->close()
= \"$size\" where ID = $id";
   $result = $db->query($query);
   if (!$result) {
     echo "Type modification failed to execute"; ?> <br
                                                                     <form method="post" action="admin_page.php">
/><br />
                                                                     <input type="submit" name="return" value="return">
        <form method="post" action="admin_page.php">
                                                                     </form>
         <input type="submit" name="return"
                                                                     </body></div></center>
value="return">
                                                                     </html>
         </form>
        <?php exit();
   }
                                                                     customer page.php
   else {
                                                                     <?php
      echo "Type successfully modified<br />";
                                                                       $email = $ GET['email'];
                                                                       if (empty($email)) {
   }
 }
                                                                         $email = $ POST['hid email'];
                                                                      }
                                                                     ?>
 if ($type == 'clothing' && !$size) {
   echo "Clothing requires a size.": ?> <br /><br />
        <form method="post" action="admin_page.php">
                                                                     <html>
         <input type="submit" name="return"
                                                                     <head>
value="return">
                                                                     <style>
         </form>
                                                                     * {
                                                                      box-sizing: border-box;
        <?php exit();
   }
                                                                    }
 if ($size && !$type) {
                                                                     .form {
   $query = "select Type from Merchandise where ID = $id";
                                                                      background-color: white;
   $result = $db->query($query);
                                                                      width: 500px:
   $row = $result -> fetch assoc();
                                                                      border: 5px solid black;
                                                                      padding: 50px;
   if (!$result) {
                                                                      margin: 30px:
     echo "Size modification failed to execute"; ?> <br
                                                                      text-align: left;
/><br />
                                                                    }
        <form method="post" action="admin_page.php">
```

.column {	
float: left;	
width: 50%;	
padding: 10px;	<center><div class="column"></div></center>
}	<h1>My Profile</h1>
	 body>
datulas	-body-
	<div class="form"></div>
	<h1>Update Profile</h1>
<center><div class="column"></div></center>	<form <="" method="post" td=""></form>
	·
<h1>Buy Products</h1>	action="modify_customer_profile_check.php">
 body>	Re-enter Login info to update:
	Email: <input name="email" type="text"/>
<div class="form"></div>	Password: <input <="" p="" type="password"/>
<h1>Search Music</h1>	name="password">
<form action="music_cart.php" method="post"></form>	<input <="" id="hid_email" td="" type="hidden"/>
Select Format(s): 	name="hid_email" value=" php echo \$email? ">
<pre><input <="" id="mp3" name="format[]" pre="" type="checkbox"/></pre>	<pre><input <="" pre="" type="submit"/></pre>
value="mp3">	name="modify_customer_profile" value="Update">
<label for="mp3">mp3</label>	
<input <="" id="WAV" name="format[]" td="" type="checkbox"/> <td></td>	
value="WAV">	7017
<label for="WAV">WAV</label>	<div class="form"></div>
<input <="" id="CD" name="format[]" td="" type="checkbox"/> <td><h1>My Cart</h1></td>	<h1>My Cart</h1>
value="CD">	<form action="modify_cart.php" method="post"></form>
	· · · · · · · · · · · · · · · · · · ·
<label for="CD">CD</label>	<input <="" name="view" td="" type="submit"/>
<input <="" id="Vinyl" name="format[]" td="" type="checkbox"/> <td>value="View/Edit"></td>	value="View/Edit">
value="Vinyl">	<input <="" id="hid_email" td="" type="hidden"/>
<label for="Vinyl">Vinyl</label>	name="hid_email" value=" php echo \$email? ">
<input <="" id="Casette" td="" type="checkbox"/> <td></td>	
name="format[]" value="Casette">	
<label for="Casette">Casette</label>	
Name: br />	<div class="form"></div>
•	
<input name="Name" size="40" type="text"/>	<h1>Past Orders</h1>
<input <="" id="hid_email" td="" type="hidden"/> <td><pre><form action="view_receipts.php" method="post"></form></pre></td>	<pre><form action="view_receipts.php" method="post"></form></pre>
name="hid_email" value=" php echo \$email? ">	<input <="" name="view" td="" type="submit"/>
	• • •
<input <="" name="submit" td="" type="submit"/> <td>value="View"></td>	value="View">
value="Search">	<input <="" id="hid_email" td="" type="hidden"/>
	name="hid_email" value=" php echo \$email? ">
Taly	
<div class="form"></div>	
<h1>Search Merch</h1>	
<form action="merch_cart.php" method="post"></form>	
	.0 1 .
Select Type(s): 	
<input <="" id="clothing" name="type[]" td="" type="checkbox"/> <td></td>	
value="clothing">	
<pre><label for="clothing">clothing</label></pre>	
<input <="" id="item" name="type[]" td="" type="checkbox"/> <td></td>	
value="item">	
<label for="item">item</label>	
Name: <p< td=""><td></td></p<>	
<input name="name" size="40" type="text"/>	
<input <="" id="hid email" td="" type="hidden"/> <td></td>	
name="hid_email" value=" php echo \$email? ">	
<input <="" name="search" td="" type="submit"/> <td></td>	
value="Search">	
₹ GIV*	

```
<input type="hidden" id="hid email"
music_cart.php
<html>
                                                                      name="hid email" value="<?php echo $email?>">
<head>
                                                                              </form>
 <title>Music Search Results</title>
                                                                              <?php exit;
</head>
                                                                         }
<style>
                                                                          if ($format str && $name) {
* {
                                                                           $query = "select * from Music where Name like
 box-sizing: border-box;
                                                                      '%".$name."%' and Format in
}
                                                                             (".\format_str.")";
.form {
                                                                          elseif ($format_str) {
 background-color: white;
                                                                           $query = "select * from Music where Format in
 width: 500px;
                                                                      (".$format_str.")";
 border: 5px solid black;
 padding: 50px;
                                                                          elseif ($name) {
 margin: 30px;
                                                                           $query = "select * from Music where Name like
 text-align: left;
                                                                      '%".$name."%";
                                                                          else {
.column {
                                                                           $query = "select * from Music";
 float: left;
 width: 50%;
 padding: 10px;
                                                                          $result = $db->query($query);
                                                                          if (!$result) {
}
                                                                            echo "Query failed to execute"; ?>
</style>
                                                                              <form method="post" action="customer page php">
                                                                              <input type="submit" name="return"
<div class="column">
                                                                      value="return">
 <div class="form">
                                                                              <input type="hidden" id="hid email"
  <body>
                                                                      name="hid_email" value="<?php echo $email?>">
  <h1>Music Search Results</h1>
                                                                              </form>
  <?php
                                                                              <?php exit;
                                                                         }
   $format = $ POST['format'];
   $name = trim($ POST['name']);
                                                                          $num results = $result->num rows;
   $format str = ";
   $email = $ POST['hid email'];
                                                                          echo "Number of items found: ".$num results."";
   if (!get magic quotes gpc()){
                                                                          for ($i=0; $i <$num results; $i++) {
     if (count($format) > 0) {
                                                                           $row = $result->fetch assoc();
       $a = [];
                                                                           echo "<strong>ID: ";
                                                                           echo htmlspecialchars(stripslashes($row['ID']));
       foreach ($format as $f) {
          $f = """ . addslashes($f) . """;
                                                                           echo "</strong><br />Name: ":
                                                                           echo stripslashes($row['Name']):
          $a[] = $f;
                                                                           echo "<br/>
Price: $":
       format str = join(',', $a);
                                                                           echo stripslashes($row['Price']);
                                                                           echo "<br />Quantity: ";
     $name = addslashes($name);
                                                                           echo stripslashes($row['Quantity']);
                                                                           echo "<br />Format: ";
   }
                                                                           echo stripslashes($row['Format']);
    @ $db = new mysgli('localhost:3306', 'sternm2',
                                                                           echo "<br/>br />Description: ";
'Breakbot123', 'sternm2 FAIR VISIONS');
                                                                           echo stripslashes($row['Description']);
                                                                           echo "";
   if (mysgli connect errno()) {
     echo 'Error: Could not connect to database. Please try
                                                                          $result->free():
again later.': ?>
       <form method="post" action="customer_page.php">
                                                                          $db->close():
       <input type="submit" name="return"
value="return">
                                                                          <form method="post" action="customer_page.php">
```

```
$quantity = (int)$ POST['quantity'];
     <input type="submit" name="return"
value="return">
                                                                        $email = $ POST['hid email'];
     <input type="hidden" id="hid email" name="hid email"
value="<?php echo $email?>">
                                                                        if (!$id) {
   </form>
                                                                          echo "Missing ID"; ?>
  </body>
                                                                           <form method="post" action="customer page.php">
 </div>
                                                                            <input type="submit" name="return"
</div>
                                                                    value="return">
                                                                            <input type="hidden" id="hid_email"
<div class="column">
                                                                    name="hid_email" value="<?php echo $email?>">
 <div class="form">
                                                                            </form>
  <h1>Add to Cart</h1>
                                                                            <?php exit();
  <form method="post" action="insert_music_cart.php">
     Enter the item ID to add an item to your cart.
     ID: <input type="text" name="id">
                                                                        if (!$quantity) {
                                                                          echo "Missing quantity"; ?>
     Quantity: <input type="text" name="quantity">
     <input type="hidden" id="hid email" name="hid email"
                                                                            <form method="post" action="customer page.php">
value="<?php echo $email?>">
                                                                            <input type="submit" name="return"
     <input type="submit" name="insert music cart"
                                                                    value="return">
value="Add to Cart">
                                                                            <input type="hidden" id="hid email"
                                                                    name="hid_email" value="<?php echo $email?>">
  </form>
 </div>
                                                                            </form>
</div>
                                                                            <?php exit();
</html>
                                                                        }
                                                                        @ $db = new mysgli('localhost:3306', 'sternm2',
                                                                    'Breakbot123', 'sternm2 FAIR VISIONS');
insert music cart.php
<html>
<head>
                                                                        if (mysgli connect errno()) {
 <title>Cart Results</title>
                                                                         echo "Error: Could not connect to database. Please try
</head>
                                                                    again later.": ?>
                                                                            <form method="post" action="customer page.php">
<style>
                                                                            <input type="submit" name="return"
                                                                    value="return">
* {
 box-sizing: border-box;
                                                                            <input type="hidden" id="hid email"
                                                                    name="hid email" value="<?php echo $email?>">
}
                                                                            </form>
.form {
                                                                            <?php exit();
 background-color: white;
                                                                        }
 width: 500px;
 border: 5px solid black;
                                                                        $query = "select Quantity
 padding: 50px;
                                                                              from Music
 margin: 30px:
                                                                              where ID = $id":
 text-align: left;
                                                                        $result = $db->query($query);
}
.column {
                                                                        if (!$result) {
 float: left:
                                                                          echo "Query failed to execute"; ?>
 width: 50%;
                                                                            <form method="post" action="customer page php">
 padding: 10px;
                                                                            <input type="submit" name="return"
}
                                                                    value="return">
                                                                            <input type="hidden" id="hid email"
</style>
                                                                    name="hid email" value="<?php echo $email?>">
                                                                            </form>
<div class="column">
                                                                            <?php exit;
 <div class="form">
                                                                        }
  <body>
                                                                        else {
  <h1>Cart Results</h1>
                                                                          $row = $result->fetch row():
  <?php
                                                                          $result val = (int)$row[0];
                                                                          $qty diff = $result val - $quantity;
   id = (int) _POST['id'];
                                                                        }
```

```
}
                                                                                                                                            else {
      if (qty diff < 0) {
           echo "There are only $result val in stock, and you
                                                                                                                                                result val = (int)result val
requested $quantity"; ?>
                                                                                                                                                $qty sum = $result val + $quantity;
             <form method="post" action="customer_page.php">
                                                                                                                                                $query = "update Cart
             <input type="submit" name="return"
                                                                                                                                                           set quantity = $qty sum
value="return">
                                                                                                                                                           where msc id = $id";
             <input type="hidden" id="hid email"
name="hid_email" value="<?php echo $email?>">
                                                                                                                                                $result = $db->query($query);
             </form>
             <?php exit();
                                                                                                                                                if (!$result) {
                                                                                                                                                    echo "Cart failed to insert item(s)"; ?>
     }
                                                                                                                                                       <form method="post"
      else {
           $query = "select quantity
                                                                                                                             action="customer page.php">
                     from Cart
                                                                                                                                                       <input type="submit" name="return"
                                                                                                                             value="return">
                     where msc id = $id";
                                                                                                                                                       <input type="hidden" id="hid email"
           $result = $db->query($query);
                                                                                                                             name="hid email" value="<?php echo $email?>">
                                                                                                                                                       </form>
           if (!$result) {
                                                                                                                                                       <?php exit();
               echo "Query failed to execute"; ?>
                 <form method="post"
action="customer_page.php">
                                                                                                                                                    echo "Item successfully added to cart."; ?>
                 <input type="submit" name="return"
                                                                                                                                                       <form method="post"
value="return">
                                                                                                                             action="customer page.php">
                 <input type="hidden" id="hid email"
                                                                                                                                                       <input type="submit" name="return"
name="hid email" value="<?php echo $email?>">
                                                                                                                             value="return">
                 </form>
                                                                                                                                                       <input type="hidden" id="hid email"
                 <?php exit();
                                                                                                                             name="hid email" value="<?php echo $email?>">
                                                                                                                                                       </form>
           else {
                                                                                                                                                       <?php
               $row = $result->fetch row();
                                                                                                                                               }
               if (empty($row)) {
                                                                                                                                           }
                    $query = "insert into Cart (msc id, mch id,
                                                                                                                                       }
quantity, email)
                                                                                                                                   }
                              values ($id, NULL, $quantity, \"$email\")";
                                                                                                                                   $query = "update Music
                    $result = $db->query($query);
                                                                                                                                              set Quantity = $qty diff
                                                                                                                                              where ID = $id";
                    if (!$result) {
                        echo "Cart failed to insert item(s)"; ?>
                                                                                                                                   $result = $db->query($query);
                          <form method="post"
action="customer page.php">
                                                                                                                                       if (!$result) {
                          <input type="submit" name="return"
                                                                                                                                            echo "Music Product Quantity could not update.";
value="return">
                          <input type="hidden" id="hid email"
                                                                                                                                              <form method="post"
name="hid email" value="<?php echo $email?>">
                                                                                                                             action="customer page.php">
                          </form>
                                                                                                                                              <input type="submit" name="return"
                          <?php exit();
                                                                                                                             value="return">
                                                                                                                                              <input type="hidden" id="hid email"
                   }
                                                                                                                             name="hid email" value="<?php echo $email?>">
                    else {
                        echo "Item successfully added to cart."; ?>
                                                                                                                                              </form>
                          <form method="post"
                                                                                                                                              <?php exit();
action="customer page php">
                                                                                                                                       }
                          <input type="submit" name="return"
                                                                                                                                   $db->close();
value="return">
                          <input type="hidden" id="hid email"
name="hid email" value="<?php echo $email?>">
                                                                                                                                 </body>
                          </form>
                                                                                                                               </div>
                           <?php
                                                                                                                             </div>
                                                                                                                             </html>
                   }
```

	<input <="" id="nid_email" name="nid_email" th="" type="nidden"/>
	value=" php echo \$email? ">
merch_cart.php	
<html></html>	php exit;</td
<head></head>	}
<title>Merch Search Results</title>	
	if (\$type_str && \$name) {
	\$query = "select * from Merchandise where Name like
<style></td><td>'%".\$name."%' and Type in (".\$type_str.")";</td></tr><tr><td>*{</td><td>}</td></tr><tr><td>box-sizing: border-box;</td><td>elseif (\$type str) {</td></tr><tr><td>}</td><td>\$query = "select * from Merchandise where Type in</td></tr><tr><td>1</td><td>(".\$type_str.")";</td></tr><tr><td>.form {</td><td>(.\psiype_su.) ,</td></tr><tr><td>•</td><td>slopif (Chama) (</td></tr><tr><td>background-color: white;</td><td>elseif (\$name) {</td></tr><tr><td>width: 500px;</td><td>\$query = "select * from Merchandise where Name like</td></tr><tr><td>border: 5px solid black;</td><td>'%".\$name."%"";</td></tr><tr><td>padding: 50px;</td><td>}</td></tr><tr><td>margin: 30px;</td><td>else {</td></tr><tr><td>text-align: left;</td><td><pre>\$query = "select * from Merchandise";</pre></td></tr><tr><td>}</td><td>}</td></tr><tr><td></td><td></td></tr><tr><td>.column {</td><td><pre>\$result = \$db->query(\$query);</pre></td></tr><tr><td>float: left;</td><td>if (!\$result) {</td></tr><tr><td>width: 50%;</td><td>echo "Query failed to execute"; ?> </td></tr><tr><td>padding: 10px;</td><td><form method="post" action="customer_page.php"></td></tr><tr><td>}</td><td>rp<p</td></tr><tr><td></style>	value="return">
400900	<pre><input <="" id="hid_email" name="hid_email" pre="" type="hidden"/></pre>
<div class="column"></div>	value=" php echo \$email? ">
<div class="form"></div>	
 	php exit;</td
<h1>Merch Search Results</h1>	}
php</td <td></td>	
	<pre>\$num_results = \$result->num_rows;</pre>
\$format = \$_POST['format'];	
<pre>\$name = trim(\$_POST['name']);</pre>	echo "Number of items found: ".\$num_results."";
\$format_str = ";	
<pre>\$email = \$_POST['hid_email'];</pre>	for (\$i=0; \$i <\$num_results; \$i++) {
	<pre>\$row = \$result->fetch_assoc();</pre>
if (!get_magic_quotes_gpc()){	echo " ID: ";
if (count(\$type) > 0) {	echo htmlspecialchars(stripslashes(\$row['ID']));
\$a = [];	echo " Name: ";
foreach (\$type as \$f) {	echo stripslashes(\$row['Name']);
\$f = """ . addslashes(\$f) . """;	echo " br />Description: ";
\$a[] = \$f;	echo stripslashes(\$row['Description']);
. -	echo stripsiasries(\$10\text{information j)}, echo " br />Price: \$";
} Chung atr = iain/' ' Ca):	· ·
\$type_str = join(',', \$a);	echo stripslashes(\$row['Price']);
}	echo " br />Type: ";
<pre>\$name = addslashes(\$name);</pre>	echo stripslashes(\$row['Type']);
}	echo " Size: ";
	echo stripslashes(\$row['Size']);
@ \$db = new mysqli('localhost:3306', 'sternm2',	echo " Quantity: ";
'Breakbot123', 'sternm2_FAIR VISIONS');	echo stripslashes(\$row['Quantity']);
	echo "";
if (mysqli_connect_errno()) {	}
echo 'Error: Could not connect to database. Please try	
again later.'; ?> 	<pre>\$result->free();</pre>
<form action="customer_page.php" method="post"></form>	\$db->close();
<input <="" name="return" td="" type="submit"/> <td></td>	
value="return">	?>
P	

```
$id = (int)$ POST['id'];
  <form method="post" action="customer page.php">
                                                                        $quantity = (int)$_POST['quantity'];
     <input type="submit" name="return"
value="return">
                                                                        $email = $ POST['hid email'];
     <input type="hidden" id="hid email" name="hid email"
value="<?php echo $email?>">
                                                                        if (!$id) {
   </form>
                                                                          echo "Missing ID"; ?>
  </body>
                                                                            <form method="post" action="customer page.php">
 </div>
                                                                            <input type="submit" name="return"
</div>
                                                                    value="return">
                                                                            <input type="hidden" id="hid email"
<div class="column">
                                                                    name="hid email" value="<?php echo $email?>">
  <div class="form">
                                                                            </form>
                                                                            <?php exit();
     <h1>Add to Cart</h1>
     <form method="post" action="insert merch cart.php">
       Enter the item ID to add an item to your cart.
       ID: <input type="text" name="id">
                                                                        if (!$quantity) {
       Quantity: <input type="text"
                                                                          echo "Missing quantity"; ?>
name="quantity">
                                                                            <form method="post" action="customer page.php">
       <input type="hidden" id="hid email"
                                                                            <input type="submit" name="return"
name="hid email" value="<?php echo $email?>">
                                                                    value="return">
       <input type="submit" name="insert merch cart"
                                                                            <input type="hidden" id="hid email"
value="Add to Cart">
                                                                    name="hid_email" value="<?php echo $email?>">
     </form>
                                                                           </form>
  </div>
                                                                            <?php exit();
</div>
                                                                       }
</html>
                                                                        @ $db = new mysgli('localhost:3306', 'sternm2',
                                                                    'Breakbot123', 'sternm2 FAIR VISIONS');
insert merch cart.php
<html>
                                                                        if (mysgli connect errno()) {
<head>
                                                                         echo "Error: Could not connect to database. Please try
 <title>Cart Results</title>
                                                                    again later.": ?>
</head>
                                                                           <form method="post" action="customer_page.php">
                                                                            <input type="submit" name="return"
<style>
                                                                    value="return">
                                                                            <input type="hidden" id="hid email"
* {
 box-sizing: border-box;
                                                                    name="hid email" value="<?php echo $email?>">
                                                                            </form>
}
                                                                            <?php exit();
                                                                       }
.form {
 background-color: white;
 width: 500px;
                                                                        $query = "select Quantity
 border: 5px solid black:
                                                                              from Merchandise
                                                                              where ID = $id":
 padding: 50px;
 margin: 30px:
                                                                        $result = $db->query($query);
 text-align: left:
}
                                                                        if (!$result) {
.column {
                                                                          echo "Query failed to execute"; ?>
 float: left:
                                                                            <form method="post" action="customer page php">
 width: 50%;
                                                                            <input type="submit" name="return"
 padding: 10px;
                                                                    value="return">
                                                                            <input type="hidden" id="hid email"
}
                                                                    name="hid email" value="<?php echo $email?>">
</style>
                                                                            </form>
<div class="column">
                                                                            <?php exit();
 <div class="form">
                                                                       }
  <body>
                                                                        else {
  <h1>Cart Results</h1>
                                                                          $row = $result->fetch row();
                                                                          $result val = (int)$row[0];
  <?php
                                                                          $qty_diff = $result_val - $quantity;
```

```
}
                                                                                                                                               }
                                                                                                                                           }
      if ( qty_diff < 0) 
                                                                                                                                           else {
           echo "There are only $result val in stock, and you
                                                                                                                                                result val = (int)result val
requested $quantity"; ?>
                                                                                                                                                $qty sum = $result val + $quantity;
            <form method="post" action="customer_page.php">
                                                                                                                                                $query = "update Cart
             <input type="submit" name="return"
                                                                                                                                                           set quantity = $qty sum
value="return">
                                                                                                                                                           where mch id = $id";
            <input type="hidden" id="hid_email"
name="hid_email" value="<?php echo $email?>">
                                                                                                                                                $result = $db->query($query);
            </form>
                                                                                                                                                if (!$result) {
             <?php exit();
     }
                                                                                                                                                    echo "Cart failed to insert item(s)"; ?>
      else {
                                                                                                                                                       <form method="post"
           $query = "select quantity
                                                                                                                            action="customer page.php">
                     from Cart
                                                                                                                                                       <input type="submit" name="return"
                     where mch id = $id";
                                                                                                                            value="return">
                                                                                                                                                       <input type="hidden" id="hid email"
           $result = $db->query($query);
                                                                                                                            name="hid email" value="<?php echo $email?>">
                                                                                                                                                      </form>
           if (!$result) {
                                                                                                                                                       <?php exit();
               echo "Query failed to execute"; ?>
                                                                                                                                               }
                 <form method="post"
                                                                                                                                                else {
action="customer page php">
                                                                                                                                                    echo "Item successfully added to cart."; ?>
                 <input type="submit" name="return"
                                                                                                                                                       <form method="post"
value="return">
                                                                                                                            action="customer page php">
                 <input type="hidden" id="hid email"
                                                                                                                                                       <input type="submit" name="return"
name="hid email" value="<?php echo $email?>">
                                                                                                                            value="return">
                 </form>
                                                                                                                                                       <input type="hidden" id="hid email"
                 <?php exit();
                                                                                                                            name="hid email" value="<?php echo $email?>">
                                                                                                                                                       </form>
           else {
                                                                                                                                                       <?php
               $row = $result->fetch row();
                                                                                                                                               }
               if (empty($row)) {
                                                                                                                                          }
                    $query = "insert into Cart (msc id, mch id,
                                                                                                                                      }
quantity, email)
                     values (NULL, $id, $quantity, \"$email\")";
                                                                                                                                   $query = "update Merchandise
                    $result = $db->query($query);
                                                                                                                                              set Quantity = $qty diff
                                                                                                                                              where ID = $id";
                    if (!$result) {
                        echo "Cart failed to insert item(s)"; ?>
                                                                                                                                   $result = $db->query($query);
                          <form method="post"
action="customer page.php">
                                                                                                                                       if (!$result) {
                          <input type="submit" name="return"
                                                                                                                                           echo "Merchandise Product Quantity could not
value="return">
                                                                                                                            update.":?>
                          <input type="hidden" id="hid email"
                                                                                                                                              <form method="post"
name="hid email" value="<?php echo $email?>">
                                                                                                                            action="customer page php">
                          </form>
                                                                                                                                              <input type="submit" name="return"
                          <?php exit();
                                                                                                                            value="return">
                                                                                                                                              <input type="hidden" id="hid email"
                                                                                                                            name="hid email" value="<?php echo $email?>">
                    else {
                        echo "Item successfully added to cart."; ?>
                                                                                                                                              </form>
                          <form method="post"
                                                                                                                                              <?php exit();
action="customer page.php">
                                                                                                                                       }
                          <input type="submit" name="return"
                                                                                                                                   $db->close();
value="return">
                          <input type="hidden" id="hid email"
name="hid email" value="<?php echo $email?>">
                          </form>
                                                                                                                                 </body>
                          <?php
                                                                                                                               </div>
```

	echo "No match found."; ?>
	<pre><form ;<="" action="customer_page.php" method="post" pre=""></form></pre>
	<input <="" name="return" td="" type="submit"/>
	value="return">
modify_customer_profile_check.php	
<html></html>	php exit();</td
<head></head>	}
<title>Update My Profile</title>	A 14 A 14 .
	<pre>\$num_results = \$result->num_rows;</pre>
<style></td><td>for (\$i=0; \$i <\$num_results; \$i++) {</td></tr><tr><td>*{</td><td><pre>\$row = \$result->fetch_assoc();</pre></td></tr><tr><td>box-sizing: border-box;</td><td>echo "".(\$i+1).". Name: ";</td></tr><tr><td>}</td><td>\$fname = \$row['Fname'];</td></tr><tr><td>,</td><td>echo htmlspecialchars(stripslashes(\$fname));</td></tr><tr><td>.form {</td><td>\$Iname = \$row['Lname'];</td></tr><tr><td>background-color: white;</td><td>echo " \$Iname";</td></tr><tr><td>width: 500px;</td><td>echo " br />Email: ";</td></tr><tr><td>•</td><td>\$email = \$row['Email'];</td></tr><tr><td>border: 5px solid black;</td><td>•</td></tr><tr><td>padding: 50px;</td><td>echo stripslashes(\$email);</td></tr><tr><td>margin: 30px;</td><td>echo " br />Address: ";</td></tr><tr><td>text-align: left;</td><td>\$address = \$row['Address'];</td></tr><tr><td>}</td><td>echo stripslashes(\$address);</td></tr><tr><td></style>	echo " Phone #: ";
	<pre>\$phone = \$row['Phone'];</pre>
<center><div class="form"></div></center>	echo stripslashes(\$phone);
 body>	echo "";
<h1>Update My Profile</h1>	}
php</td <td><pre>\$result->free();</pre></td>	<pre>\$result->free();</pre>
\$email = \$_POST['email'];	\$db->close();
\$pwd = sha1(\$_POST['password']);	φαδ * 0.000(),
φιια σια (φ_ι σσ ([ρασσισια]),	?>
if (/liccot(Compil)) (liccot(Cowd))) [• •
if ((!isset(\$email)) (!isset(\$pwd))) {	form mathad="naat"
echo "Email and/or password are missing."; ?> <br< td=""><td><pre><form <="" method="post" pre=""></form></pre></td></br<>	<pre><form <="" method="post" pre=""></form></pre>
/>	action="modify_customer_profile.php">
<pre><form action="customer_page.php" method="post"></form></pre>	Enter Change(s): The control of the control
<input <="" name="return" p="" type="submit"/>	First Name: <input name="fname" type="text"/>
value="return">	Last Name: <input name="lname" type="text"/>
	Email: <input name="email" type="text"/>
php exit();</td <td>Address: <input name="address" type="text"/></td>	Address: <input name="address" type="text"/>
}	Phone #: <input name="phone" type="text"/>
	Password: <input <="" name="password" td="" type="password"/>
@ \$db = new mysqli('localhost:3306', 'sternm2',	>
'Breakbot123', 'sternm2_FAIR VISIONS');	<input <="" id="hid_email" name="hid_email" td="" type="hidden"/>
	value=" php echo \$email? ">
if (mysqli_connect_errno()) {	<input <="" name="make changes" td="" type="submit"/>
echo 'Error: Could not connect to database. Please try	value="make changes">
again later.'; ?> 	
<pre><form action="customer_page.php" method="post"></form></pre>	
<input <="" name="return" td="" type="submit"/> <td><pre><form action="customer_page.php" method="post"></form></pre></td>	<pre><form action="customer_page.php" method="post"></form></pre>
value="return">	<input <="" name="return" td="" type="submit"/>
	value="return">
php exit();</td <td></td>	
\:prip \(\text{exit()}\),	
J	
\$query = "select * from User where Email = \"\$email\" and	AIMIN
Pwd = \"\$pwd\"";	
ι να - τφρνατ,	
<pre>\$result = \$db->query(\$query);</pre>	
if (!\$result) {	

```
modify_customer_profile.php
                                                                        }
<html>
<head>
                                                                        $num results = $result->num rows;
 <title>Profile Update Results</title>
</head>
                                                                        if ($num results != 0) {
                                                                           echo 'Email is already being used.'; ?> <br /><br />
<style>
                                                                             <form method="post" action="customer_page.php">
* {
                                                                              <input type="submit" name="return"
 box-sizing: border-box;
                                                                    value="return">
}
                                                                              </form>
                                                                             <?php exit();
.form {
 background-color: white;
                                                                        else {
 width: 500px;
                                                                           $query = "update User set Email = \"$email\" where
 border: 5px solid black;
                                                                     Email = \"$hid email\"";
 padding: 50px;
                                                                          $result = $db->query($query);
 margin: 30px;
 text-align: left;
                                                                          if (!$result) {
                                                                             echo "Email modification failed to execute"; ?> <br
</style>
                                                                     /><br />
                                                                             <form method="post" action="customer_page.php">
<center><div class="form">
                                                                              <input type="submit" name="return"
                                                                     value="return">
<body>
<h1>Profile Update Results</h1>
                                                                              </form>
<?php
                                                                             <?php exit();
                                                                          }
 $email = $ POST['email'];
                                                                          else {
 $fname = ucwords(strtolower($ POST['fname']));
                                                                             echo "Email successfully modified<br />";
 $Iname = ucwords(strtolower($ POST['Iname']));
                                                                          }
 $phone = $ POST['phone'];
                                                                        }
 $address = ucwords(strtolower($ POST['address']));
 $password = $ POST['password'];
                                                                     }
 $hid email = $ POST['hid email'];
                                                                      if ($fname) {
                                                                        $query = "update User
 @ $db = new mysgli('localhost:3306', 'sternm2',
                                                                              set Fname = \"$fname\"
'Breakbot123', 'sternm2 FAIR VISIONS');
                                                                              where Email = \"$hid email\"";
                                                                        $result = $db->query($query);
 if (mysgli connect errno()) {
   echo 'Error: Could not connect to database. Please try
                                                                        if (!$result) {
again later.'; ?> <br /><br />
                                                                           echo "First Name modification failed to execute"; ?>
        <form method="post" action="customer_page.php">
                                                                     <br /><br />
         <input type="submit" name="return"
                                                                             <form method="post" action="customer_page.php">
value="return">
                                                                              <input type="submit" name="return"
                                                                     value="return">
         </form>
                                                                              </form>
        <?php exit();
 }
                                                                             <?php exit();
                                                                        }
 if ($email) {
                                                                        else {
   $query = "select Email from User where Email =
                                                                             echo "First Name successfully modified<br
                                                                    />";
\"$email\"";
   $result = $db->query($query);
                                                                     }
   if (!$result) {
      echo "Email modification failed to execute"; ?> <br
                                                                      if ($Iname) {
/><br />
                                                                        $query = "update User
        <form method="post" action="customer_page.php">
                                                                              set Lname = \"$Iname\"
         <input type="submit" name="return"
                                                                              where Email = \"$hid email\"";
value="return">
                                                                        $result = $db->query($query);
         </form>
                                                                        if (!$result) {
        <?php exit();
```

```
echo "Last Name modification failed to execute"; ?>
                                                                       $result = $db->query($query);
<br /><br />
        <form method="post" action="customer_page.php">
                                                                       if (!$result) {
         <input type="submit" name="return"
                                                                          echo "Password modification failed to execute"; ?> <br
value="return">
                                                                    /><br />
         </form>
                                                                            <form method="post" action="customer_page.php">
        <?php exit();
                                                                             <input type="submit" name="return"
                                                                    value="return">
   }
   else {
                                                                             </form>
        echo "Last Name successfully modified<br
                                                                            <?php exit();
/>";
                                                                       else {
                                                                            echo "Password successfully modified<br
 }
                                                                    />";
 if ($address) {
   $query = "update User
                                                                    }
         set Address = \"$address\"
         where Email = \"$hid email\"";
                                                                     $db->close()
   $result = $db->query($query);
                                                                    ?>
   if (!$result) {
      echo "Address modification failed to execute"; ?> <br
                                                                    <form method="post" action="customer_page.php">
/><br />
                                                                    <input type="submit" name="return" value="return">
        <form method="post" action="customer page php">
                                                                    </form>
         <input type="submit" name="return"
                                                                    </body></div></center>
value="return">
                                                                    </html>
         </form>
        <?php exit();
   }
                                                                    modify cart.php
   else {
                                                                    <html>
        echo "Address successfully modified<br
                                                                    <head>
/>";
                                                                     <title>My Cart</title>
                                                                    </head>
                                                                    <style>
 }
                                                                    * {
 if ($phone) {
                                                                     box-sizing: border-box;
   $query = "update User
                                                                   }
         set Phone = \"$phone\"
         where Email = \"$hid email\"";
                                                                    .form {
   $result = $db->query($query);
                                                                     background-color: white;
                                                                     width: 500px;
   if (!$result) {
                                                                     border: 5px solid black;
     echo "Phone # modification failed to execute"; ?> <br
                                                                     padding: 50px;
/><br />
                                                                     margin: 30px;
        <form method="post" action="customer_page.php">
                                                                     text-align: left;
         <input type="submit" name="return"
                                                                   }
value="return">
         </form>
                                                                    .column {
                                                                     float: left;
        <?php exit();
                                                                     width: 50%;
   }
                                                                     padding: 10px;
   else {
        echo "Phone # successfully modified<br
/>";
                                                                    </style>
                                                                    <div class="column">
 }
                                                                     <div class="form">
 if ($password) {
                                                                      <body>
   $password = sha1($password):
                                                                       <h1>My Cart</h1>
   $query = "update User
         set Pwd = \"$password\"
                                                                       <?php
         where Email = \"$hid email\"";
```

```
$email = $ POST['hid email'];
                                                                                echo "<br />Name: ";
                                                                                echo ($row msc['Name']);
     @ $db = new mysgli('localhost:3306', 'sternm2',
                                                                                echo "<br />Price: $";
'Breakbot123', 'sternm2 FAIR VISIONS');
                                                                                echo ($row msc['Price']);
                                                                                echo "<br />Quantity: ":
    if (mysgli connect errno()) {
                                                                                echo ($row['quantity']);
       echo 'Error: Could not connect to database. Please
                                                                                echo "<br/>Format: ";
try again later.'; ?>
                                                                                echo ($row msc['Format']);
       <form method="post" action="customer_page.php">
                                                                                echo "<br/>br />Description: ";
                                                                                echo ($row_msc['Description']);
       <input type="submit" name="return"
value="return">
                                                                                echo "";
       <input type="hidden" id="hid email"
                                                                             }
name="hid email" value="<?php echo $email?>">
       </form>
                                                                           elseif (empty($row['msc_id'])) {
       <?php exit;
                                                                              $mch id = (int)$row['mch id'];
    }
                                                                              $query mch = "select *
                                                                                      from Merchandise
    $query = "select msc id, mch id, quantity
                                                                                      where $mch id = id";
          from Cart
                                                                              $result mch = $db->query($query mch);
          where Email = \"$email\"";
                                                                              if (!$result_mch) {
                                                                                echo "Query failed to execute"; ?>
                                                                                <form method="post"
     $result = $db->query($query);
                                                                    action="customer_page.php">
    if (!$result) {
       echo "Query failed to execute"; ?>
                                                                                <input type="submit" name="return"
       <form method="post" action="customer page php">
                                                                    value="return">
       <input type="submit" name="return"
                                                                                <input type="hidden" id="hid email"
value="return">
                                                                    name="hid email" value="<?php echo $email?>">
       <input type="hidden" id="hid email"
                                                                                </form>
name="hid email" value="<?php echo $email?>">
                                                                                <?php exit;
       </form>
                                                                             }
       <?php exit:
                                                                              else {
    }
                                                                                $row mch = $result mch->fetch assoc();
                                                                                echo "<strong>Merch</strong>";
    $num results = $result->num rows:
                                                                                echo "<br />ID: ";
    echo "Number of items found:
                                                                                echo ($row mch['ID']);
".$num results."";
                                                                                echo "<br />Name: ";
                                                                                echo ($row mch['Name']);
    for ($i=0; $i <$num results; $i++) {
                                                                                echo "<br />Price: $";
       $row = $result->fetch assoc();
                                                                                echo ($row mch['Price']);
       if (empty($row['mch id'])) {
                                                                                echo "<br />Quantity: ";
         msc id = (int) row[msc id'];
                                                                                echo ($row['quantity']);
         $query msc = "select *
                                                                                echo "<br />Type: ";
                                                                                echo ($row mch['Type']);
                 from Music
                  where $msc id = id":
                                                                                echo "<br />Size: ":
         $result msc = $db->query($query_msc);
                                                                                echo ($row mch['Size']):
         if (!$result_msc) {
                                                                                echo "<br />Description: ":
           echo "Query failed to execute"; ?>
                                                                                echo ($row mch['Description']);
            <form method="post"
                                                                                echo "";
action="customer page php">
                                                                             }
            <input type="submit" name="return"
                                                                           }
value="return">
            <input type="hidden" id="hid email"
name="hid email" value="<?php echo $email?>">
                                                                         $result->free():
            </form>
                                                                        $db->close();
            <?php exit;
         }
                                                                       <form method="post" action="customer_page.php">
         else {
            $row msc = $result msc->fetch assoc():
                                                                         <input type="submit" name="return"
           echo "<strong>Music</strong>";
                                                                    value="return">
           echo "<br />ID: ";
                                                                         <input type="hidden" id="hid email" name="hid email"
            echo ($row msc['ID']);
                                                                    value="<?php echo $email?>">
```

```
</form>
  </body>
                                                                   .column {
 </div>
                                                                    float: left;
</div>
                                                                    width: 50%;
                                                                    padding: 10px;
<div class="column">
  <div class="form">
                                                                   </style>
   <center><form method="post"</pre>
action="order_made.php">
                                                                   <div class="column">
     <h1>Order Items</h1>
                                                                    <div class="form">
     <input type="submit" name="make_order"
                                                                     <body>
                                                                     <h1>Cart Results</h1>
value="Make order!">
     <input type="hidden" id="hid_email" name="hid_email"
                                                                      <?php
value="<?php echo $email?>">
   </form></center>
                                                                       $table = $ POST['table'];
  </div>
                                                                       id = (int) POST['id'];
                                                                       $quantity = (int)$ POST['quantity'];
  <div class="form">
                                                                       $email = $ POST['hid email'];
     <form method="post" action="update_cart.php">
       <h1>Remove Items from Cart</h1><br />
                                                                       if ($table == 'Music') {
       Enter Change: <br /> <br />
                                                                         $id col = 'msc id';
       <input type="radio" id="Music" name="table"
value="Music">
                                                                       else {
         <label for="Music">Music</label>
                                                                         $id col = 'mch id';
       <input type="radio" id="Merchandise" name="table"
value="Merchandise">
         <label
                                                                       if (!$id || !$table || !$quantity) {
for="Merchandise">Merchandise</label><br>
                                                                         echo "Missing required fields"; ?>
       ID: <input type="text" name="id">
                                                                          <form method="post" action="customer page.php">
       Quantity: <input type="text"
                                                                          <input type="submit" name="return"
name="quantity">
                                                                   value="return">
       <input type="hidden" id="hid email"
                                                                          <input type="hidden" id="hid email"
name="hid email" value="<?php echo $email?>">
                                                                   name="hid email" value="<?php echo $email?>">
       <input type="submit" name="make changes"
                                                                          </form>
value="make changes">
                                                                          <?php exit();
     </form>
                                                                      }
  </div>
</div>
                                                                       if ($quantity == 0) {
                                                                         echo "Cart was not changed."; ?>
</html>
                                                                          <form method="post" action="customer page php">
                   _____
                                                                          <input type="submit" name="return"
                                                                   value="return">
update cart.php
                                                                          <input type="hidden" id="hid email"
<html>
                                                                   name="hid email" value="<?php echo $email?>">
<head>
                                                                          </form>
 <title>Cart Results</title>
                                                                          <?php exit():
</head>
                                                                      }
<style>
                                                                       if ($quantity < 0) {
                                                                         echo "Invalid quantity."; ?>
* {
 box-sizing: border-box;
                                                                          <form method="post" action="customer page php">
                                                                          <input type="submit" name="return"
}
                                                                   value="return">
.form {
                                                                          <input type="hidden" id="hid email"
 background-color: white;
                                                                   name="hid email" value="<?php echo $email?>">
 width: 500px:
                                                                          </form>
 border: 5px solid black;
                                                                          <?php exit();
 padding: 50px;
                                                                      }
 margin: 30px;
 text-align: left;
                                                                       @ $db = new mysgli('localhost:3306', 'sternm2',
                                                                   'Breakbot123', 'sternm2_FAIR VISIONS');
}
```

```
$result = $db->query($query);
   if (mysgli connect errno()) {
                                                                           if (!$result) {
     echo "Error: Could not connect to database. Please try
                                                                             echo "2. Query failed to execute"; ?>
again later."; ?>
                                                                              <form method="post"
       <form method="post" action="customer_page.php">
                                                                     action="customer page.php">
       <input type="submit" name="return"
                                                                              <input type="submit" name="return"
value="return">
                                                                     value="return">
       <input type="hidden" id="hid email"
                                                                              <input type="hidden" id="hid email"
name="hid email" value="<?php echo $email?>">
                                                                     name="hid email" value="<?php echo $email?>">
                                                                              </form>
       </form>
       <?php exit();
                                                                              <?php exit();
   }
                                                                          }
   $query = "select quantity
                                                                        else {
         from Cart
                                                                           $query = "update Cart
                                                                                 set quantity = $qty diff
         where email = \"$email\" and $id col = $id";
                                                                                 where $id col = $id and email = \"$email\"";
   $result = $db->query($query);
                                                                           $result = $db->query($query);
                                                                           if (!$result) {
   if (!$result) {
                                                                             echo "3. Query failed to execute"; ?>
      echo "1. Query failed to execute"; ?>
                                                                              <form method="post"
       <form method="post" action="customer_page.php">
                                                                     action="customer_page.php">
                                                                              <input type="submit" name="return"
       <input type="submit" name="return"
value="return">
                                                                     value="return">
       <input type="hidden" id="hid email"
                                                                              <input type="hidden" id="hid email"
name="hid email" value="<?php echo $email?>">
                                                                     name="hid email" value="<?php echo $email?>">
       </form>
                                                                              </form>
       <?php exit();
                                                                              <?php exit();
                                                                          }
   $row = $result->fetch row();
                                                                        }
   if (empty($row)) {
                                                                        $query = "select Quantity
     echo "It doesn't look like that item is in your cart."; ?>
                                                                              from $table
     <form method="post" action="customer page php">
                                                                              where ID = $id";
    <input type="submit" name="return"
value="return">
                                                                        $result = $db->query($query);
     <input type="hidden" id="hid email" name="hid email"
                                                                        if (!$result) {
value="<?php echo $email?>">
                                                                           echo "4. Query failed to execute"; ?>
     </form>
                                                                            <form method="post" action="customer page.php">
     <?php exit();
                                                                            <input type="submit" name="return"
                                                                     value="return">
   else {
                                                                            <input type="hidden" id="hid email"
                                                                     name="hid email" value="<?php echo $email?>">
      $result val = (int)$row[0]:
                                                                            </form>
      $qty diff = $result val - $quantity;
   }
                                                                            <?php exit();
                                                                        }
   if (qty diff < 0) {
      echo "You only have $result val in your cart, and you
                                                                        $row = $result->fetch row();
requested to remove $quantity"; ?>
                                                                        result = (int)row[0];
       <form method="post" action="customer page php">
                                                                        $qty sum = $result + $quantity;
       <input type="submit" name="return"
value="return">
                                                                        $query = "update $table
       <input type="hidden" id="hid_email"
                                                                              set Quantity = $qty_sum
name="hid email" value="<?php echo $email?>">
                                                                              where ID = $id":
       </form>
       <?php exit();
                                                                        $result = $db->query($query);
   elseif ($qty diff == 0) {
                                                                        if (!$result) {
      $query = "delete
                                                                           echo "5. Query failed to execute"; ?>
            from Cart
                                                                            <form method="post" action="customer page php">
            where $id col = $id and email = \"$email\"";
```

```
<input type="submit" name="return"
                                                                           <input type="submit" name="return"
value="return">
                                                                    value="return">
       <input type="hidden" id="hid email"
                                                                           <input type="hidden" id="hid email"
name="hid email" value="<?php echo $email?>">
                                                                    name="hid email" value="<?php echo $email?>">
       </form>
                                                                           </form>
       <?php exit();
                                                                           <?php exit();
   }
                                                                       }
   echo "Item quantity successfully modified."; ?>
                                                                         $query = "select *
       <form method="post" action="customer_page.php">
                                                                              from Cart
       <input type="submit" name="return"
                                                                              where email = \"$email\"";
value="return">
       <input type="hidden" id="hid_email"
                                                                         $result = $db->query($query);
name="hid email" value="<?php echo $email?>">
       </form>
                                                                         if (!$result) {
       <?php
                                                                          echo "1. Query failed to execute"; ?>
                                                                           <form method="post" action="customer page.php">
   $db->close();
                                                                           <input type="submit" name="return"
                                                                    value="return">
  ?>
  </body>
                                                                           <input type="hidden" id="hid email"
 </div>
                                                                    name="hid_email" value="<?php echo $email?>">
</div>
                                                                           </form>
</html>
                                                                           <?php exit();
                                                                        }
order made.php
                                                                         $num results = $result->num rows;
<html>
<head>
                                                                         if ($num results == 0) {
 <title>Cart Results</title>
                                                                          echo "No items were in the cart"; ?>
</head>
                                                                           <form method="post" action="customer page.php">
                                                                           <input type="submit" name="return"
<style>
                                                                    value="return">
* {
                                                                           <input type="hidden" id="hid email"
 box-sizing: border-box;
                                                                    name="hid email" value="<?php echo $email?>">
                                                                           </form>
}
                                                                           <?php exit();
.form {
 background-color: white;
 width: 500px;
                                                                         echo "Number of items ordered:
 border: 5px solid black;
                                                                    ".$num results."";
 padding: 50px;
 margin: 30px;
                                                                         msc qty = []
 text-align: left;
                                                                         $mch_qty = [];
}
                                                                         for ($i=0: $i <$num results: $i++) {
</style>
                                                                           $row = $result->fetch assoc():
<center><div class="form">
                                                                           $msc = $row['msc id'];
                                                                           $mch = $row['mch id'];
  <center><h1>RECEIPT</h1></center>
                                                                           $qty = (int)$row['quantity'];
  <?php
                                                                           if (!empty($msc)) {
                                                                             msc id = msc;
     $email = $_POST['hid_email'];
                                                                             $msc_qty[$msc] = $qty;
     @ $db = new mysgli('localhost:3306', 'sternm2',
                                                                           if (!empty($mch)) {
'Breakbot123', 'sternm2 FAIR VISIONS');
                                                                             mch id[] = mch;
                                                                             mch qty[mch] = qty;
     if (mysqli connect_errno()) {
                                                                           }
       echo "Error: Could not connect to database. Please
try again later."; ?>
       <form method="post" action="customer page php">
                                                                         $msc_id_str = join(",", $msc_id);
```

```
$mch price = (float)$row['Price'];
     $mch_id_str = join(",", $mch_id);
                                                                           $quantity = $mch_qty[$mch_id];
     if (!empty($msc id)) {
                                                                          $total += ($mch_price * $quantity);
       $query = "select Price, Name, Format, ID
                                                                          $mch name = $row['Name'];
             from Music
                                                                          $items[] = "$mch name ($quantity)";
             where ID in ($msc id str)";
    }
                                                                        $items str = join(", ", $items);
    $result_msc = $db->query($query);
                                                                        echo "total: <strong>$$total </strong><br /><br />items:
                                                                   $items_str";
     if (!$result_msc) {
       echo "1. Query failed to execute"; ?>
                                                                        $query = "insert into Receipt (total, email, item)
       <form method="post" action="customer page php">
                                                                              values ($total, \"$email\", \"$items str\")";
       <input type="submit" name="return"
value="return">
                                                                        $result = $db->query($query);
                                                                        if (!$result) {
       <input type="hidden" id="hid email"
name="hid email" value="<?php echo $email?>">
                                                                          echo "1. Query failed to execute"; ?>
       </form>
                                                                           <form method="post" action="customer page.php">
       <?php exit():
                                                                           <input type="submit" name="return"
    }
                                                                   value="return">
                                                                          <input type="hidden" id="hid email"
                                                                   name="hid_email" value="<?php echo $email?>">
    if (!empty($mch_id)) {
       $query = "select Price, Name, ID
                                                                          </form>
             from Merchandise
                                                                           <?php exit();
             where ID in ($mch id str)";
    }
                                                                        $query = "delete
     $result mch = $db->query($query);
                                                                              from Cart
                                                                              where email = \"$email\"";
    if (!$result mch) {
       echo "1. Query failed to execute"; ?>
                                                                        $result = $db->query($query);
       <form method="post" action="customer_page.php">
                                                                        if (!$result) {
       <input type="submit" name="return"
                                                                          echo "1. Query failed to execute"; ?>
value="return">
                                                                           <form method="post" action="customer page php">
       <input type="hidden" id="hid email"
                                                                           <input type="submit" name="return"
name="hid email" value="<?php echo $email?>">
                                                                   value="return">
       </form>
                                                                           <input type="hidden" id="hid email"
                                                                   name="hid email" value="<?php echo $email?>">
       <?php exit();
    }
                                                                           </form>
                                                                           <?php exit();
     $total = 0.0:
    $items = [];
                                                                        $db->close():
    $num results msc = $result msc->num rows;
     for ($i=0: $i <$num results msc: $i++) {
                                                                     </body>
       $row = $result msc->fetch assoc();
                                                                   </div></center>
       $msc id = (int)$row['ID'];
       $msc price = (float)$row['Price'];
                                                                   <center><form method="post" action="customer page.php">
       $quantity = $msc qty[$msc id];
                                                                      <input type="submit" name="return"
       $total += ($msc price * $quantity);
                                                                   value="return">
       $msc name = $row['Name'];
                                                                      <input type="hidden" id="hid email" name="hid email"
       $msc format = $row['Format'];
                                                                   value="<?php echo $email?>">
       $items[] = "$msc name [$msc format] ($quantity)";
                                                                   </form></center>
    }
                                                                     -----
     $num results mch = $result mch->num rows;
                                                                   view receipts.php
     for ($i=0; $i <$num results mch; $i++) {
                                                                   <html>
       $row = $result mch->fetch assoc();
                                                                   <head>
       mch id = (int) row['ID'];
                                                                    <title>Cart Results</title>
```

```
</head>
<style>
* {
 box-sizing: border-box;
}
.form {
 background-color: white;
 width: 500px;
 border: 5px solid black;
 padding: 50px;
 margin: 30px;
 text-align: left;
</style>
<center><div class="form">
 <body>
  <center><h1>PAST ORDERS</h1></center>
  <?php
     $email = $_POST['hid_email'];
     @ $db = new mysgli('localhost:3306', 'sternm2',
'Breakbot123', 'sternm2 FAIR VISIONS');
     if (mysgli connect errno()) {
       echo "Error: Could not connect to database. Please
try again later."; ?>
       <form method="post" action="customer_page.php">
       <input type="submit" name="return"
value="return">
       <input type="hidden" id="hid email"
name="hid_email" value="<?php echo $email?>">
       </form>
       <?php exit();
   }
     $query = "select ID, DATE(dt) as d, TIME(dt) as t, total,
item
           from Receipt
          where email = \"$email\"";
     $result = $db->query($query);
     if (!$result) {
```

```
echo "1. Query failed to execute"; ?>
       <form method="post" action="customer_page.php">
       <input type="submit" name="return"
value="return">
       <input type="hidden" id="hid email"
name="hid_email" value="<?php echo $email?>">
       </form>
       <?php exit();
    $num_results = $result->num_rows;
    echo "Orders made: ".$num_results."";
    for ($i=0; $i <$num results; $i++) {
     $row = $result->fetch assoc();
     echo "<strong>ID: ";
     echo ($row['ID']);
     echo "</strong><br />Date: ";
     echo ($row['d']);
     echo "</strong><br />Time: ";
     echo ($row['t']);
     echo "<br />Total $: ";
     echo ($row['total']);
     echo "<br />Items: ";
     echo ($row['item']);
     echo "";
    }
  ?>
 </body>
</div></center>
<center><form method="post" action="customer_page.php">
  <input type="submit" name="return"
value="return">
  <input type="hidden" id="hid email" name="hid email"
value="<?php echo $email?>">
</form></center>
</html>
```

Database Dump (screenshots)

Database structure:



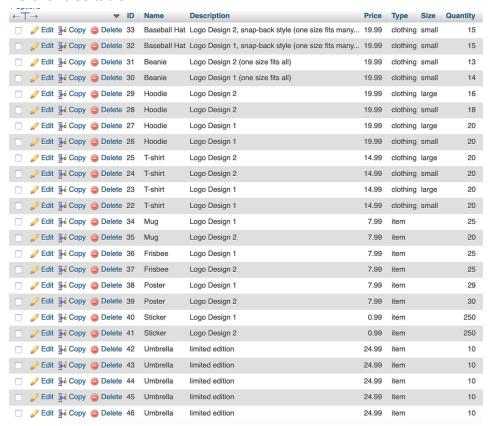
User table:



Music table:



Merchandise table:



Cart table:



Receipt table:



Citations

[1] Luke Welling, Laura Thomson. *PHP and MySQL Web Development*, 4th ed. (e-book): Addison-Wesley, 2009, ch. 1, 3, 11.