GROUP i

presents:

iBay

CMPS 460

Spring 2009

The BIG group project

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CMPS 460 Spring 2009 Auction Website Database Project

(Version 2 – Changes in bold and italics)

Project Description

You have been asked to create a database to manage a new website for auction listings. The system will provide the following features:

User Controls:

When a person visits the website, they should be able to either login with an existing username and password or register as a new user. Upon registration, a person should provide a username, password, real name, shipping address, phone number, birth date, email address, and credit card information (card type, card number, and expiration date)

Additionally, the registration date and last activity of each user should be recorded.

From some form of control panel, users should be able to change their password, shipping address, phone number, email address, and payment data. They may also add a brief description and pick an image to represent themselves. Image uploading is not required, but it should be simulated entering a filename in the database and displaying the file on the local machine at that location.

Viewing a profile:

Users should be able to view a profile of any registered user. The profile will include the username, picture, description, and a listing of other users' feedback about them.

Listing an item:

Registered users should be able to create an item listing, providing a title, description, end date & time, shipping cost, shipping method, *starting price*, and category for the item. Once again, an image for the listing should be able to be chosen from several already on the website. Allowing for image uploading is not necessary.

Browsing auction listings:

Registered users should be able to browse auction listings by categories (Art, Books, Clothing, Collectibles, Electronics, Entertainment, Jewelry, Sporting Goods, Toys). Each item will be assigned to only one category. There should also be methods to sort a listing page by title, seller, time remaining, and current *bid*.

Bidding on an item:

Registered users should be able to place a bid on any open listings. A history of all current and past bids and the users that placed them should be kept for all items listed.

Leaving feedback:

When a buyer wins an auction, they should have the option to leave feedback for the item's seller. The feedback should consist of a rating from 1 (bad) to 10 (good) and a short description. The seller should similarly be able to leave feedback for the buyer. The buyer and seller should be able to leave feedback once at any time after the listing becomes closed.

Notifications:

If a user logs in and an auction they participated in had closed since their last visit, the website should display a notification box on the home page. If they were the winning bidder or the seller, this notification should be shown every time the user loads the home page until they leave feedback for that auction. The *notification* box itself should include the form for a user to leave feedback.

Also, the website should notify any users that are outbid in an auction in a similar manner. The notification should persist until either the auction ends or until the user chooses to remove the message.

All notifications should be displayed at the same time on the home page, with the most recent appearing closest to the top.

Admin Controls:

There should be a method by which an administrator control panel can be accessed for testing purposes. From there, a user should be able to view, edit, and delete any entity within the database.

Time:

The website's time does not have to advance on its own. A method to advance the time by minutes, hours, and days should be made available for testing purposes at the top of every page of the website. This will be accomplished by using 3 integer dialog boxes. Ex: 2 1 1 means 1 minute, 1 hour, 2 days ahead of the current date/time. For simplicity, time begins at day 0, hour 0, minute 0.

System Requirements

Your system will be responsible for creating and maintaining the database. This includes the ability to add, change, and delete all data in the database (taking into account referential integrity). At a minimum, your system will include the following capabilities:

- Display screens for all data in the database.
- Add, change, and delete a registered user.
- Add, change, and delete an auction listing.
- Add, change, and delete a bid.
- Add, change, and delete feedback.
- Display a registered user's profile.
- Display a sortable list of auction items.
- Display an auction listing.
- Display a bid history for a particular auction
- Display a bid history for a particular user.
- Display feedback for a registered user.
- Display the bid history for a registered user

Constraints

Sellers may not bid on their own auctions.

Users may not outbid themselves if they are already the high bidder.

Users may not place bids lower than the current high bid.

Project Requirements

Your system will use the MySQL database and will be written in PHP and all interaction with the system will be via a web browser. All programs will be created and maintained in your cs4601 class account.

Demonstrations will be scheduled for the last week of classes. A signup sheet will be posted on my office door sometime in April. All group members are required to be present during the demonstration.

Each member of the group must be prepared to demonstrate his/her portion of the system. You are responsible for providing test data adequate to demonstrate all features of the system. Any feature of the system that cannot be proven to function correctly will be counted as inoperative. Under NO circumstances will I (or you) "logon" to MySQL during the demonstration. There must be test data in the database that will allow all features of the system to be demonstrated.

The moral is – be finished, have the necessary test data loaded in the database, be ready to demonstrate, and have your documentation with you.

Documentation

The following documentation is required and due at the demonstration:

- A document describing the architecture of the application. This includes the database design (ER diagram), the data dictionary, and the function of all PHP scripts and a description of the interaction between them.
- A user's guide with sufficient detail to enable a new user to understand and use the system.
- A printout of the final version of the PHP scripts. The code must be well structured and appropriately commented. Each script must include the author's name, the date, and a certification that the code is the work of the author.

Grading

Obviously, you will be graded on the extent to which your system conforms to the requirements. You will also be graded on consistency, error checking, spelling, grammar, and system design. Remember, all members of your group will receive the same grade on the project.

There will be no extensions given. All material is due at the beginning of the presentation.

Please note that any material of an offensive nature (by my standards) found in your project will result in a grade of 0 on the project for all group members.

Insert ER diagram printout

Insert datadictionary.ods

printout

PhP Function Description and Interaction category.php

Handles category views, showing listings in a specific category and sorting.

No functions defined

category_pictures.php

Shows the user the available pictures for each category

No functions defined

common.php

Common include script which includes other utility scripts. Also has other common functions such as echoing the html headers and footers, html wrapping functions, and some formatting functions.

Call at the beginning of a script to output html header information including navbar function echo header (\$dbinfo)

Call at the end of a script for closing html footer information function echo footer (\$dbinfo)

Determine the current executing script function current_script ()

Quick echo of a special div area function echo div (\$name)

Quick close div function end_div ()

Wrap text in a div function div (\$text, \$style name = "")

Wrap text in a span function span (\$text, \$style name)

Make a quick link function href (\$url, \$text)

Make a quick link function hreft (\$url, \$text, \$target) Quick html image code function img (\$path) Quick html image code for local images function local img (\$path)

Make the user go to a different page function redirect (\$url)

Get from the GET variable function get (\$key)

Get from the POST variable function post (\$key)

Script to make setting session variables easier. function session set (\$key, \$val)

Script to make getting session variables easier. function session_get (\$key)

Heading level 1 function h1 (\$text)

Heading level 2 function h2 (\$text)

Heading level 3 function h3 (\$text)

An echo with a
br/> at the end function cout (\$str)

Format time to readable format function format time (\$day, \$hour, \$minute, \$prefix zeros to day = false)

Pad time for sorting on the home page function pad time (\$day, \$hour, \$minute, \$priority = 0)

If time1 is older than time2, returns true function is_older (\$d1, \$h1, \$m1, \$d2, \$h2, \$m2)

Strip quotes from a string (for form input) function fix quotes (\$str)

Escape quotes in a string function escape (\$val)

Embed html link for javascript alert function alert (\$msg, \$linktext)

dbinfo.php

Database information class, with useful utility functions for getting info out of the database

```
Call this function to start the session and initialize the variables
       function init ()
Is debug enabled
       function debug ()
Make a connection to the database returns true if successful or false if not
       function connect ()
Close the connection to the database usually call this at the end of a script
       function close ()
Make a query to the database and return the result
       function query ($q)
Get the link associated with the database not usually needed but added here for convenience
       function get link ()
Call all update functions
       function update all ()
Update user information in session variables (realname, is an admin)
       function update user info ()
Attempt to login a user. Will return true if successful and false if not. Additionally, will setup session
vars for username and admin or not
       function login ($username, $password)
Used by admin and also when registering - can login as a user without password
       function login as ($username)
Logout and save activity
       function logout ($is delete = false)
Check if visitor is logged in
       function logged in ()
Check if visitor is admin
       function is admin ()
```

```
Get logged in username
       function username ()
Get logged in in name of user
       function realname ()
Update the time from the database into the session vars
       function update time ()
Will increment the site time by amount
       function increment site time ($amount)
Get the current day, this is called after update time();
       function day ()
Get the current hour, this is called after update time();
       function hour ()
Get the current minute, this is called after update time();
       function minute ()
Save activity for the current user.
       function save activity ($activity description)
Must be admin, save activity for another user - user must exist
       function save activity for ($username, $activity description)
Save a registration activity for the current user
       function save registration ($username)
Update all other bidder's notification status that they've been outbid, and also current price for auction
       function update auction before bid ($title, $seller, $category, $end day, $end hour,
$end minute, $bid amount)
Updates all item listing buyer information for closed auctions
       function update closed item listings ()
See if a user exists in the system
```

function user exists (\$username)

Get a realname for a username function get realname (\$username)

Get the last logout time of a user function get lastlogout (\$username)

Get the registration date of a user function get registration date (\$username)

Test if an auction already exists function auction exists (\$title, \$seller, \$category, \$end day, \$end hour, \$end minute)

Test if a bid already exists

Get the winner of an auction function get winner (\$title, \$seller, \$category, \$end day, \$end hour, \$end minute)

Find the current highest bidder for an auction function get highest bidder (\$title, \$seller, \$category, \$end day, \$end hour, \$end minute)

Get the number of bids for an auction function get num bids (\$title, \$seller, \$category, \$end day, \$end hour, \$end minute)

Gets the user description function get userdesc (\$username)

Gets the picture associated with a user profile function get_picture (\$username)

.....

form_common.php

```
Action: script to execute
Method: POST or GET
       function form begin ($action, $method)
Same as above but is names and has javascript onsubmit
       function form begin n ($action, $method, $name, $on submit)
End form
       function form end ()
Typical text input for a form
       function text input ($name, $value)
Typical text input for a form with size
       function text input s ($name, $value, $size, $maxsize)
Typical text input for a form with size and readonly
       function text input sr ($name, $value, $size, $maxsize)
Typical password input for a form
       function password input ($name, $value)
Typical password input for a form with size
       function password input s ($name, $value, $size, $maxsize)
Typical submit input for a form
       function submit input ($value)
Hidden input for a form
       function hidden input ($name, $value)
Input for a form that has more freedom
       function input ($name, $value, $size, $id, $type, $maxsize = "", $other opts = "")
Form select which takes html string of options
       function select ($name, $options)
Dynamic select used for javascript
       function select dyn ($name, $options, $javascript func)
Html option used for a select dropdown
```

function option (\$value, \$display, \$is selected = "")

index.php

No functions defined

itemlisting.php

Functions for validation/etc..

Resets inputs

function reset inputs (this form)

Shows fields that require validation as yellow

function validate_required (field)

Sets fieldvar

function field_set (fieldvar, field)

Appends a newline on text

function append_with_newline (orig, append_text)

Ensures valid input

function validate form (this form)

Gives image from image directory

function local img (file)

Formats image source

function image swap ()

A catch-all form for editing & creating auctions

function item listing form (\$mode = "new", \$t = "", \$s = "", \$c = "", \$d = -1, \$h = -1, \$m = -1)

Simple checking of the form data to meet basic requirements

function verify data ()

.....

list_common.php

Functions for common HTML tags

Unordered Lists HTML helper tags

HTML ul begin tag function ul_begin ()

HTML ul end tag function ul end ()

HTML ul wrap tag helper function ul wrap (\$list elems)

HTML ul wrap tag helper function ul (\$list elems)

Unordered Lists HTML helper tags

HTML ol begin tag function ol begin ()

HTML ol end tag function ol end ()

HTML ol wrap tag helper function ol_wrap (\$list_elems)

HTML ol wrap tag helper function ol (\$list elems)

List HTML helper tags

HTML li begin tag function li_begin ()

HTML li end tag function li_end ()

HTML li wrap tag helper function li_wrap (\$list_elem)

HTML li wrap helper tag function li (\$list elem)

login.php

User login form page

No functions defined

logout.php

User logout processing page

No functions defined

profile.php

Profile page for editing & viewing user (and your own) profile.

Functions for image loading function local_img (file) function image swap ()

Data validation

function verify data ()

profile_pictures.php

Shows the user the available pictures for a profile

No functions defined

registration.php

Handles registration related things such as new users and editing your current registration, as well as view registered users (admin).

Resets inputs

function reset inputs (thisform)

Shows fields that require validation as yellow function validate_required (field)

```
Sets fieldvar
       function field set (fieldvar, field)
Appends newline on text
       function append with newline (orig, append text)
Validates email field
       function validate email (field)
String replacement
       function trim (string)
Field validation
       function validate int (field, length)
Form validation
       function validate form (thisform)
Main registration form - kind of catch-all for editing and creating registrations
       function registration form ($user = "")
Checking of the form data to meet basic requirements
       function verify data ()
table common.php
Table related common functions/class (for styles)
Initialize to use certain style
       function init ($main class)
Set to use certain style
       function set main class ($main class )
Get which style it is using
       function get main class ()
Begin the html table
       function table begin ()
End the html table
```

function table end ()

function table head begin (\$custom class = "")

Begin the html table head

```
End the html table head
       function table head end ()
Begin the html table body
       function table body begin ($custom class = "")
End the html table body
       function table body end ()
HTML table row
       function tr ($s, $custom class = "")
HTML table row begin
       function tr begin ($custom class = "")
HTML table row end
       function tr end ()
HTML table data
       function td ($s, $custom class = "")
HTML table data which spans several columns
       function td span ($s, $custom class = "", $span = 0, $align = "")
```

viewtable.php

Helpful page for administrator to see the data in the db. function display message ()

insert

user manaul

```
category.php
<?php
CMPS460 Database Project
Group I
April 20, 2009
Authors:
- Trey Alexander
                     (txa4895)
- Dallas Griffith
                     (dlg5367)
- Mark McKelvy
                     (imm0468)
- Sayooj Valsan
                     (sxv6633)
~~~ CERTIFICATION OF AUTHENTICITY ~~~
The code contained within this script is the combined work of the above mentioned authors.
*/
// Handles category views, showing listings in a specific category and sorting.
include once ("common.php");
delta = new delta = t();
echo header ($dbinfo);
view = get ("view");
$sortby = get ("sortby");
// Redirect if user not logged in
if (!$dbinfo->logged in ())
       redirect ("index.php");
if ($dbinfo->logged in ())
       // Default view shows user a dropdown
       if (empty ($view))
              echo h3 ("All Categories");
              echo div ("scriptstatus");
              echo href (" itemlisting.php?mode=new", "Create a New Item Listing");
              end div();
              cout ("Select a category:");
              $options = "";
              $options = $options.option ("Art", "Art");
              $options = $options.option ("Books", "Books");
              $options = $options.option ("Clothing", "Clothing");
```

```
$options = $options.option ("Collectibles", "Collectibles");
              $options = $options.option ("Electronics", "Electronics");
              $options = $options.option ("Entertainment", "Entertainment");
              $options = $options.option ("Jewelry", "Jewelry");
              $options = $options.option ("Sporting Goods", "Sporting Goods");
              $options = $options.option ("Toys", "Toys");
              echo form begin ("$current script?", "get");
              echo select ("view", $options);
              echo submit input ("Select");
       else // show category specific listings
              echo h3 ("$view");
              echo div ("scriptstatus");
              echo href ("itemlisting.php?mode=new", "Create a New Item Listing");
              echo "<br/>Sort by: ";
              echo href ("category.php?view=$view&sortby=time remaining", "Time Remaining");
              echo " | ";
              echo href ("category.php?view=$view&sortby=title", "Title");
              echo " | ";
              echo href ("category.php?view=$view&sortby=seller", "Seller");
              echo " | ";
              echo href ("category.php?view=$view&sortby=current bid", "Current Bid (Lowest at
Top)");
              end div ();
              day = dbinfo -> day();
              $hour = $dbinfo->hour ();
              $minute = $dbinfo->minute ();
              $query = "select title, seller, end day, end hour, end minute, current price from
item listing
where category = '$view'
AND ((end day > $day)
       OR (end day = \$day AND end hour > \$hour)
       OR (end day = $day AND end hour = $hour AND end minute >= $minute))";
              if ($sortby == "title")
                     $query = $query." order by title";
              else if ($sortby == "seller")
                     $query = $query." order by seller";
              else if ($sortby == "current bid")
```

```
$query = $query." order by current price";
              else // ($sortby == "time remaining")
                      $query = $query." order by end day,
end hour, end minute";
              // Run the query
              $results id = mysql query($query);
              if($results id)
                      if (mysql num rows(\frac{1}{2} results id) == 0)
                             echo "No data.";
                      else
                             table = new table common t();
                             $table->init ("category listing");
                             echo $table->table begin ();
                             echo $table->table head begin ();
                             echo $table->tr ($table->td span ("Auctions available for bid
in \"$view\"", "", 6));
                             echo $table->tr ($table->td ("Title").
                                            $table->td ("Seller").
                                            $table->td ("Closing Time").
                                            $table->td ("Current Price"));
                             echo $table->tr end ();
                             echo $table->table head end ();
                             echo $table->table body begin ();
                             while (list($title, $seller, $end day, $end_hour,$end_min,
                                       $curr price) = mysql fetch row($results id))
                                    echo $table->tr ($table->td (href ("itemlisting.php?
mode=view&title=$title&seller=$seller&category=$view&end day=$end day&end hour=$end hour
&end minute=$end min", $title)).
                                                   $table->td (href ("profile.php?
mode=view&username=$seller", $dbinfo->get_realname ($seller))).
                                                   $table->td (format time ($end day,
                                                                          $end hour, $end minute)).
                                               $table->td ("\$$curr_price"));
                             echo $table->table body end ();
                             echo $table->table end ();
```

```
echo "<br/>br><br/>
}

else if ($dbinfo->debug ())
{
    // Display the query and the MySQL error message
    print "<br>> Cbr><br/>ERROR = ";
     die (mysql_error());
}
}

echo_footer ($dbinfo);
?>
```

```
category picture.php
<?php
CMPS460 Database Project
Group I
April 20, 2009
Authors:
- Trev Alexander
                     (txa4895)
- Dallas Griffith
                     (dlg5367)
- Mark McKelvy
                     (imm0468)
- Sayooj Valsan
                     (sxv6633)
~~~ CERTIFICATION OF AUTHENTICITY ~~~
The code contained within this script is the combined work of the above mentioned authors.
*/
// Shows the user the available pictures for each category
include once ("common.php");
delta = new delta = t();
echo header ($dbinfo);
$current script = current script();
mode = get ("mode");
if (empty ($mode)) // dropdown to select category
       cout ("Listing of avialable pictures.");
       cout ("Pick a category:");
       $options = "";
       $options = $options.option ("Art", "Art");
       $options = $options.option ("Books", "Books");
       $options = $options.option ("Clothing", "Clothing");
       $options = $options.option ("Collectibles", "Collectibles");
       $options = $options.option ("Electronics", "Electronics");
       $options = $options.option ("Entertainment", "Entertainment");
       $options = $options.option ("Jewelry", "Jewelry");
       $options = $options.option ("Sporting Goods", "Sporting Goods");
       $options = $options.option ("Toys", "Toys");
```

echo form begin ("\$current script?mode=view", "post");

echo select ("category", \$options);
echo submit input ("Select");

common.php

```
<?php
CMPS460 Database Project
Group I
April 20, 2009
Authors:
- Trev Alexander
                     (txa4895)
- Dallas Griffith
                     (dlg5367)
- Mark McKelvv
                     (imm0468)
- Sayooj Valsan
                     (sxv6633)
~~~ CERTIFICATION OF AUTHENTICITY ~~~
The code contained within this script is the combined work of the above mentioned authors.
*/
// Common include script which includes other utility scripts. Also has other
// common functions such as echoing the html headers and footers, html
// wrapping functions, and some formatting functions.
include once ("dbinfo.php");
include once ("form common.php");
include once ("table common.php");
include once ("list common.php");
// Call at the beginning of a script to output html header information including
// navbar
function echo header ($dbinfo)
       $dbinfo->init();
       if (!$dbinfo->connect ())
              die ("Couldn't connect to database.");
       $dbinfo->update all();
       $site time = post ("site time");
       if (!empty ($site time))
       {
              $post site time = post ("site time");
              $post curr day = strtok ($post site time, " ");
              $post curr hour = strtok (" ");
              $post curr minute = strtok (" ");
              $user = $dbinfo->username ();
              $formatted time = format time ($post curr day, $post curr hour, $post curr minute);
              $dbinfo->query ("insert into user activity values (
'$user', $post curr day, $post curr hour, $post curr minute, 'Updated website time to
```

```
$formatted time')");
             $dbinfo->update all ();
       }
       echo <<<HEREDOC
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
"http://www.w3.org/TR/html4/strict.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<title>CMPS 460 DB Project</title>
link href="style.css" rel="stylesheet" type="text/css" />
</head>
<body>
HEREDOC;
       echo div ("container");
       // HEADER AREA
       echo div ("header");
       echo "iBay";
       end div ();
       // STATUS AREA
       echo div ("status");
       dy = dy = dy () + 0;
       $hour = $dbinfo->hour ();
       $minute = $dbinfo->minute ();
       if ($dbinfo->logged in ())
              $realname = $dbinfo->realname ();
              $username = $dbinfo->username ();
             $logoutlink = href ("logout.php", "Logout");
              cout ("Welcome, $realname. [$username] $logoutlink");
       else
              $loginlink = href ("login.php", "Login");
              $reglink= href ("registration.php", "Register");
              cout ("Welcome! $loginlink or $reglink");
       echo ("Day: $day, Time: $hour:$minute");
       if ($dbinfo->is admin () && current script () == "index.php")
              $curr day = $dbinfo->day ();
              $curr hour = $dbinfo->hour ();
              $options = "";
              for (\$i = \$curr \ day; \$i \le \$curr \ day + 7; \$i++)
```

```
for (\$j = (\$i == \$curr \ day)? \$curr \ hour + 1 : 0; \$j < 24; \$j++)
                             soptions = soptions.option ("si si 0", format time (si, si, 0));
              echo form begin ("$current script", "post");
              echo select ("site time", $options);
              echo submit input ("Do it").alert ("This box allows you to advance the website time.",
"?"):
              echo form end ();
//
              echo "<br/>|Flox to increase the time]";
       end div();
       // NAVIGATION AREA
       echo div ("navbar");
       if ($dbinfo->logged in ())
              if ($dbinfo->is admin())
                      $nav = "Admin Panel<br/>';
              else
                      nav = "User Panel < br/>";
/*
              if (current script () != "index.php") */
              $nav = $nav.li wrap (href ("index.php", "Home"));
              $nav = $nav.li_wrap (href ("registration.php?mode=view", "Account"));
              $nav = $nav.li wrap (href ("profile.php", "Profile"));
              $nav = $nav.li wrap (href ("profile.php?mode=browse", "All Profiles"));
              if ($dbinfo->is admin())
                      $nav = $nav.li wrap (href ("registration.php?mode=browse", "All Accounts"));
              $nav = $nav.li wrap (href ("category.php", "All Categories"));
              $nav = $nav.li wrap (href ("category.php?view=Art", " - Art"));
              $nav = $nav.li wrap (href ("category.php?view=Books", " - Books"));
              $nav = $nav.li_wrap (href ("category.php?view=Clothing", " - Clothing"));
              $nav = $nav.li wrap (href ("category.php?view=Collectibles", " - Collectibles"));
              $nav = $nav.li_wrap (href ("category.php?view=Electronics", " - Electronics"));
              $nav = $nav.li_wrap (href ("category.php?view=Entertainment", " - Entertainment"));
              $nav = $nav.li wrap (href ("category.php?view=Jewelry", " - Jewelry"));
              $nav = $nav.li wrap (href ("category.php?view=Sporting Goods", " - Sporting
Goods"));
              $nav = $nav.li wrap (href ("category.php?view=Toys", " - Toys"));
              $nav = $nav.li wrap (href ("itemlisting.php?mode=new", "Create Auction"));
              if ($dbinfo->is admin())
                      $nav = $nav.li wrap ("Database:");
                      $nav = $nav.li wrap (href ("viewtable.php?name=user", "User Table"));
```

```
$nav = $nav.li wrap (href ("viewtable.php?name=user activity", "Activity
Table"));
                      $\text{nav} = \text{$nav.li wrap (href ("viewtable.php?name=item listing", "Auction")}
Table"));
                      $nav = $nav.li wrap (href ("viewtable.php?name=bids on", "Bid Table"));
                      $nav = $nav.li wrap (href ("viewtable.php?name=reload", "Reload DB"));
              echo ul wrap ($nav);
       else
              $nav = "Visitor<br/>";
              if (current script () != "index.php")
                      $nav = $nav.li wrap (href ("index.php", "Home"));
              if (current_script () != "login.php")
                      $nav = $nav.li wrap (href ("login.php", "Login"));
              if (current script () != "registration.php")
                      $nav = $nav.li wrap (href ("registration.php", "Register"));
              echo ul_wrap ($nav);
       end div();
       echo div ("content");
       echo "<!-- END HEADER -->\n";
}
// Call at the end of a script for closing html footer information
function echo footer ($dbinfo)
       echo "<!-- FOOTER -->\n";
       end div();
       end div();
       echo <<<HEREDOC
</body>
</html>
HEREDOC;
       $dbinfo->close();
// determine the current executing script
function current script ()
{
       return basename ($ SERVER["SCRIPT NAME"]);
}
// Quick echo of a special div area
function echo div ($name)
       if (empty ($name))
```

```
echo "<div>\n";
       else
              echo "<div id=\"$name\">\n";
}
// Quick close div
function end div ()
       echo "</div>\n";
// Wrap text in a div
function div ($text, $style name = "")
       if (!empty ($style name))
              $style name = "id=\"$style name\"";
       return "<div \$style name>\n\$text\n</div>\n";
}
// Wrap text in a span
function span ($text, $style name)
{
       if (!empty ($style name))
              $style name = "id=\"$style_name\"";
       return "<span $style name>\n$text\n</span>\n";
}
// make a quick link
function href ($url, $text)
       return "<a href=\"$url\">$text</a>";
// make a quick link
function hreft ($url, $text, $target)
{
       return "<a href=\"$url\" target=\"$target\">$text</a>";
// Quick html image code
function img ($path)
{
       return "<img src=\"$path\">";
}
// Quick html image code for local images
function local img ($path)
       return "<img id=dynimg src=\"images/$path\">";
```

```
}
// Make the user go to a different page
function redirect ($url)
//
       header ("Location: $url");
       echo <<<HEREDOC
<script type="text/javascript">
<!--
window.location = "$url"
//-->
</script>
HEREDOC;
}
// Get from the GET variable
function get ($key)
       if (isset ($_GET[$key]))
              val = GET[key];
       else
              $val = "";
       return $val;
}
// Get from the POST variable
function post ($key)
{
       if (isset ($ POST[$key]))
              val = POST[key];
       else
              $val = "";
       return $val;
}
// Script to make setting session variables easier.
function session set ($key, $val)
{
       $key = "tmp $key";
       $ SESSION[$key] = $val;
}
// Script to make getting session variables easier.
function session get ($key)
       key = "tmp key";
       return $ SESSION[$key];
}
```

```
// Heading level 1
function h1 ($text)
       return "<h1>$text</h1>\n";
// Heading level 2
function h2 ($text)
       return "<h2>$text</h2>\n";
// Heading level 3
function h3 ($text)
       return "<h3>$text</h3>\n";
}
// an echo with a <br/>br/> at the end
function cout ($str)
       echo "$str"."<br/>\n";
// Format time to readable format
function format_time ($day, $hour, $minute, $prefix_zeros_to_day = false)
       day += 0;
       hour += 0;
       minute += 0;
       if (\$minute > 59)
              $minute -= 60;
               $hour++;
       if (\text{$hour > 23})
              $hour -= 24;
               $day++;
       if ($minute < 10)
              $minute = "0".$minute;
```

```
if ($hour < 10)
              $hour = "0".$hour;
       if ($prefix zeros to day)
              if (\text{$day} < 10)
                     day = "0000".day;
              else if ($day < 100)
                     day = "000".day;
              else if ($day < 1000)
                     day = "00".day;
              else if ($day < 10000)
                      day = "0".day;
       return "Day: $day, Time: $hour:$minute";
// Pad time for sorting on the home page
function pad time ($day, $hour, $minute, $priority = 0)
       if (\$minute > 59)
              $minute -= 60;
              $hour++;
       if (\text{$hour} > 23)
              hour = 24;
              $day++;
       if ($minute < 10)
              $minute = "0".$minute;
       if ($hour < 10)
              $hour = "0".$hour;
```

```
if (\text{$day} < 10)
               day = "0000".day;
        else if ($day < 100)
               day = "000".day;
        else if ($day < 1000)
               day = "00".day;
        else if ($day < 10000)
               day = "0".day;
       return "$day$hour$minute$priority ";
}
// If time1 is older than time2, returns true
function is older ($d1, $h1, $m1, $d2, $h2, $m2)
        if ((\$d1 < \$d2) \parallel
          \$d1 = \$d2 \&\& \$h1 < \$h2) \parallel
          (\$d1 == \$d2 \&\& \$h1 == \$h2 \&\& \$m1 < \$m2))
               return true;
        return false;
}
// Strip quotes from a string (for form input)
function fix quotes ($str)
{
       return str_replace ("\"", "", $str);
// Escape quotes in a string
function escape ($val)
        return mysql real escape string ($val);
// Embed html link for javascript alert
function alert ($msg, $linktext)
        return "<a href=\"javascript:alert ('$msg')\">$linktext</a>";
```

```
?>
dbinfo.php
<?php
CMPS460 Database Project
Group I
April 20, 2009
Authors:
- Trey Alexander
                     (txa4895)
- Dallas Griffith
                     (dlg5367)
- Mark McKelvy
                     (jmm0468)
- Sayooj Valsan
                     (sxv6633)
~~~ CERTIFICATION OF AUTHENTICITY ~~~
The code contained within this script is the combined work of the above mentioned authors.
*/
// Database information class, with useful utility functions for getting info
// out of the database
class dbinfo t
       var $host; // database host
       var $user; // database user
       var $pass; // database password
       var $dbname; // database name
       var $dblink; // connection link
       var $debug; // debug mode enabled
       // Call this function to start the session
       // and initialize the variables
       function init ()
       {
              session start ();
              $this->host = "calvados.ucs.louisiana.edu";
              this->user = "cs4601i";
              $this->pass = "foursixty";
              this->dbname = "cs4601 i";
              this->admin = 0;
              $this->debug = true;
       }
       // Is debug enabled
```

```
function debug ()
       return $this->debug;
// Make a connection to the database
// returns true if successful or false if not
function connect ()
{
       success = 1;
       $this->dblink = mysql connect ($this->host,
                              $this->user.
                              $this->pass)
              or (\$success = 0);
       if (!$success)
              return $success;
       mysql select db ($this->dbname)
               or (success = 0);
       return $success;
}
// Close the connection to the database
// usually call this at the end of a script
function close ()
{
       mysql close ($this->dblink);
// Make a query to the database and return the result
function query ($q)
{
       if ($this->debug)
               $result = mysql query ($q) or die ('BAD QUERY: '.mysql error ());
       else
              $result = mysql query ($q);
       return $result;
}
// Get the link associated with the database
// not usually needed but added here for convenience
function get link ()
       return $this->dblink;
// Call all update functions
function update all ()
```

```
$this->update time();
              $this->update user info ();
              $this->update closed item listings ();
       }
       // Update user information in session variables (realname, is an admin)
       function update user info ()
              $username = $this->username ();
              $result = $this->query ("select realname, is admin from user
where username = '$username''');
              $row = mysql fetch assoc ($result);
              $ SESSION['Admin'] = $row['is admin'];
              $ SESSION['Realname'] = $row['realname'];
              mysql free result ($result);
       }
       // Attempt to login a user
       // Will return true if successful and false if not.
       // Additionally, will setup session vars for username
       // and admin or not
       function login ($username, $password)
              $result = $this->query ("select username, realname, is admin from user
where username = '$username' and password = '$password''');
              if (mysql num rows (\$result) == 0)
              {
                     unset ($ SESSION['Username']);
                     unset ($ SESSION['Realname']);
                     unset ($ SESSION['Admin']);
                     mysql free result ($result);
                     return false;
              else
                     $row = mysql fetch assoc ($result);
                     $ SESSION['Username'] = $row['username'];
                     $ SESSION['Admin'] = $row['is admin'];
                     $ SESSION['Realname'] = $row['realname'];
                     mysql free result ($result);
                     $this->save activity ("Logged In");
                     return true;
       }
       // Used by admin and also when registering - can login as a user without password
       function login as ($username)
              $result = $this->query ("select username, realname, is admin from user
```

```
where username = '$username'");
              if (mysql num rows (\$result) == 0)
                     unset ($ SESSION['Username']);
                     unset ($ SESSION['Realname']);
                     unset ($ SESSION['Admin']);
                     mysql free result ($result);
                     return false;
              else
                     $row = mysql fetch assoc ($result);
                     $ SESSION['Username'] = $row['username'];
                     $ SESSION['Admin'] = $row['is admin'];
                     $ SESSION['Realname'] = $row['realname'];
                     mysql free result ($result);
                     $this->save activity ("Logged In");
                     return true;
       }
       // Logout and save activity
       function logout ($is delete = false)
              if (!$is delete)
                     $this->save activity ("Logged Out");
              unset ($ SESSION['Username']);
              unset ($ SESSION['Realname']);
              unset ($ SESSION['Admin']);
              session destroy ();
              if (!$is delete)
                     header ("Location: index.php");
       }
       // Check if visitor is logged in
       function logged in ()
              return isset ($_SESSION) && isset ($_SESSION['Username']);
       // Check if visitor is admin
       function is admin ()
              return $this->logged in () && $ SESSION['Admin'] == 1;
       // Get logged in username
       function username ()
```

```
return $ SESSION['Username'];
       // Get logged in in name of user
       function realname ()
              return $ SESSION['Realname'];
       // Update the time from the database into the session vars
       function update time ()
              $result = $this->query ("select day,hour,minute from user_activity
order by day desc, hour desc, minute desc limit 1");
              $row = mysql fetch assoc ($result);
              dy = row['day'];
              $hour = $row['hour'];
              minute = \text{srow}[minute'] + 1;
              if (\$minute > 59)
                      minute = 60;
                      $hour++;
              if (\text{$hour > 23})
                      hour = 24;
                      $day++;
              if ($minute < 10)
                      $minute = "0".$minute;
              if ($hour < 10)
                      $hour = "0".$hour;
              if (\text{$day} < 10)
                      day = "0000".day;
              else if (day < 100)
                      day = "000".day;
```

```
else if ($day < 1000)
                     day = "00".day;
              else if ($day < 10000)
                      day = "0".day;
              SESSION['Day'] = day;
              $ SESSION['Hour'] = $hour;
              $\_SESSION['Minute'] = \$minute;
              mysql free result ($result);
       }
       // Will increment the site time by amount
       function increment site time ($amount)
              if (\$amount < 1)
                     return false;
              $amount -= 1;
              $this->update time();
              $user = $this->username ();
              dy = this - day();
              $hour = $this->hour ();
              $minute = $this->minute () + $amount;
              if (\$minute > 59)
                      minute = 60;
                      $hour++;
              if (\text{$hour > 23})
                      hour = 24;
                      $day++;
              $this->query ("insert into user activity values ('$user', $day, $hour, $minute, 'Current
Time')");
              return true;
       }
       // Get the current day, this is called after update time();
       function day ()
       {
              return $_SESSION['Day'];
       // Get the current hour, this is called after update time();
```

```
function hour ()
              return $ SESSION['Hour'];
       // Get the current minute, this is called after update time();
       function minute ()
              return $ SESSION['Minute'];
       // Save activity for the current user.
       function save activity ($activity description)
              $this->update time ();
              $user = $this->username ();
              day = this - day();
              $hour = $this->hour ();
              $minute = $this->minute ();
              $activity description = mysql real escape string ($activity description);
              $this->query ("insert into user activity values ('$user', $day, $hour, $minute,
'$activity description')");
              return true;
       }
       // Must be admin, save activity for another user - user must exist
       function save activity for ($username, $activity description)
              if (!$this->is admin ())
                      return false;
              $this->update time ();
              $user = $username;
              dy = this - day();
              $hour = $this->hour ();
              $minute = $this->minute ();
              $activity description = mysql real escape string ($activity description);
              // determine if $username is a valid user
              $result = $this->query ("select count(*) as count from user where username =
'$username'");
              if (mysql num rows (\$result) == 0)
                      return false;
              mysql free result ($result);
              $this->query ("insert into user activity values ('$user', $day, $hour, $minute,
'$activity description')");
```

```
// Save a registration activity for the current user
       function save registration ($username)
              $this->update time();
              $user = $username;
              day = this - day();
              $hour = $this->hour ();
              $minute = $this->minute ();
              $this->query ("insert into user activity values ('$user', $day, $hour, $minute,
'Registered')");
              return true;
       }
       // Update all other bidder's notification status that they've been outbid, and also current price
for auction
       function update auction before bid ($title, $seller, $category, $end day, $end hour,
$end minute, $bid amount)
              $this->query ("update bids on set
display notification = 'y'
where display notification = 'n'
AND item title = '$title'
AND item seller = '$seller'
AND item category = '$category'
AND item end day = \$end day
AND item end hour = $end hour
AND item end minute = $end minute");
              $this->query ("update item listing set
current price = $bid amount
where title = '$title'
AND seller = '$seller'
AND category = '$category'
AND end day = \$end day
AND end hour = \$end hour
AND end minute = $end minute");
       // Updates all item listing buyer information for closed auctions
       function update closed item listings ()
              day = this - day();
              hr = \frac{hr}{hour}
              min = \text{this-} > minute();
              $result1 = $this->query ("select title, seller, category, end day, end hour, end minute
from item listing
where (buyer = "OR buyer = 'None')
AND (end day < $day
       OR (end day = \$day
```

```
AND end hour < $hr)
       OR (end day = \$day
              AND end hour = hr
              AND end minute <= $min)
       )");
              if (mysql num rows (\$result1) > 0)
                      while ($row = mysql fetch assoc ($result1))
                             $title = $row['title'];
                             $seller = $row['seller'];
                             $category = $row['category']:
                             \ensuremath{\$endday} = \ensuremath{\$row['end day']};
                             $endhr = $row['end hour'];
                             $endmin = $row['end minute'];
                             $result2 = $this->query ("select username, bid amount from bids on
where item title = '$title'
AND item seller = '$seller'
AND item category = '$category'
AND item end day = $endday
AND item end hour = $endhr
AND item end minute = $endmin
order by bid amount desc limit 1");
                             // no buyer
                             if (mysql num rows (\$result2) == 0)
                             {
                                    $this->query ("update item listing set
buyer = 'None',
current price = starting price
where title = '$title'
AND seller = '$seller'
AND category = '$category'
AND end day = \$endday
AND end hour = \$endhr
AND end minute = $endmin");
                             // buyer
                             else
                                    $row2 = mysql fetch assoc ($result2);
                                    \text{suyer} = \text{suyer} = \text{username'};
                                    $price = $row2['bid amount'];
                                    $this->query ("update item listing set
buyer = '\$buyer',
current price = $price
where title = '$title'
AND seller = '$seller'
AND category = '$category'
AND end day = \$endday
```

```
AND end hour = \$endhr
AND end minute = $endmin");
                            mysql_free result ($result2);
                     mysql free result ($result1);
       }
       // See if a user exists in the system
       function user exists ($username)
              $result = $this->query ("select username from user where username = '$username'");
              if (mysql num rows (\$result) == 0)
                     mysql free result ($result);
                     return false;
              else
                     mysql free result ($result);
                     return true;
       // Get a realname for a username
       function get realname ($username)
              $result = $this->query ("select realname from user where username = '$username'");
              if (mysql num rows (\$result) == 0)
                     return "ERROR";
              else
                     $row = mysql fetch assoc ($result);
                     return $row['realname'];
       }
       // Get the last logout time of a user
       function get lastlogout ($username)
       {
              $result = $this->query ("select day, hour, minute from user activity
where username = '$username'
AND activity = 'Logged Out'
order by day desc, hour desc, minute desc
limit 1");
              if (mysql num rows (\$result) == 0)
                     return array (-1, -1, -1);
              else
```

```
list ($day, $hr, $min) = mysql fetch row ($result);
                     return array ($day, $hr, $min);
       }
       // Get the registration date of a user
       function get registration date ($username)
       {
              $result = $this->query ("select day, hour, minute from user activity
where username = '$username'
AND activity = 'Registered'
order by day desc, hour desc, minute desc
limit 1");
              if (mysql num rows (\$result) == 0)
                      return array (-1, -1, -1);
              else
                      list ($day, $hr, $min) = mysql fetch row ($result);
                     return array ($day, $hr, $min);
       // Test if an auction already exists
       function auction exists ($title, $seller, $category, $end day, $end hour, $end minute)
              $result = $this->query ("select seller from item listing
where title = '$title'
AND seller = '$seller'
AND category = '$category'
AND end day = \$end day
AND end hour = $end hour
AND end_minute = $end minute");
              if (mysql num rows (\$result) == 0)
                     mysql free result ($result);
                     return false;
              else
                     mysql free result ($result);
                     return true;
       // Test if a bid already exists
       function bid exists ($user, $title, $seller, $category, $end day, $end hour, $end minute,
                         $bid day, $bid hour, $bid minute)
       {
```

```
$result = $this->query ("select username from bids on
where username = '$user'
AND item title = '$title'
AND item seller = '$seller'
AND item category = '$category'
AND item end day = $end day
AND item end hour = $end hour
AND item end minute = $end minute
AND bid day = \$bid day
AND bid hour = $bid hour
AND bid minute = $bid minute");
             if (mysql num rows (\$result) == 0)
                     mysql free result ($result);
                     return false:
             else
                     mysql free result ($result);
                    return true;
      // Get the winner of an auction
      function get winner ($title, $seller, $category, $end day, $end hour, $end minute)
              $result = $this->query ("select buyer, realname, current price from item listing, user
where title = '$title'
AND seller = '$seller'
AND category = '$category'
AND end day = \$end day
AND end hour = $end hour
AND end minute = $end minute
AND (buyer != "OR buyer != 'None')
AND buyer = username");
             if (mysql num rows (\$result) == 0)
                     return array (-1, -1, -1);
             else
              {
                     list ($username, $realname, $bid amount) = mysql fetch row ($result);
                     return array ($username, $realname, $bid amount);
       }
      // Find the current highest bidder for an auction
      function get highest bidder ($title, $seller, $category, $end day, $end hour, $end minute)
              $result = $this->query ("select username, bid amount from bids on
where item_title = '$title'
```

```
AND item seller = '$seller'
AND item category = '$category'
AND item end day = \$end day
AND item end hour = $end hour
AND item end minute = $end minute
order by bid amount desc");
             if (mysql num rows (\$result) == 0)
                     return array ("None", 0);
              else
                     list ($username, $bid amount) = mysql fetch row ($result);
                     return array ($username, $bid amount);
       }
       // Get the number of bids for an auction
       function get num bids ($title, $seller, $category, $end day, $end hour, $end minute)
              $result = $this->query ("select count(*) from bids on
where item title = '$title'
AND item seller = '$seller'
AND item category = '$category'
AND item end day = \$end day
AND item end hour = $end hour
AND item end minute = $end minute");
             list ($bid count) = mysql fetch row ($result);
             return $bid count;
       }
       //Begin - Changes made by Sayooj Valsan > # User Profile
       // Gets the user description
       function get userdesc ($username)
              $result = $this->query ("select description from user where username = '$username'");
              $row = mysql fetch assoc ($result);
              return $row['description'];
       //End - Changes made by Sayooj Valsan > # User Profile
       //Begin - Changes made by Sayooj Valsan <04-10-2009>
       function get picture ($username)
              $result = $this->query ("select picture from user where username = '$username'");
              $row = mysql fetch assoc ($result);
              return $row['picture'];
       //End - Changes made by Sayooj Valsan <04-10-2009>
```

}

```
?>
form common.php
<?php
CMPS460 Database Project
Group I
April 20, 2009
Authors:
- Trey Alexander
                    (txa4895)
- Dallas Griffith
                    (dlg5367)
- Mark McKelvy
                     (jmm0468)
- Sayooj Valsan
                     (sxv6633)
~~~ CERTIFICATION OF AUTHENTICITY ~~~
The code contained within this script is the combined work of the above mentioned authors.
*/
// Form related common functions
// Action: script to execute
// Method: POST or GET
function form begin ($action, $method)
{
       return "<form action=\"$action\" method=\"$method\">\n";
}
// Same as above but is names and has javascript onsubmit
function form begin n ($action, $method, $name, $on submit)
       return "<form action=\"$action\" method=\"$method\" accept-charset=\"UTF-8\"
name=\"$name\" onsubmit=\"$on submit\">\n";
// End form
function form end ()
{
       return "</form>\n";
}
// Typical text input for a form
function text input ($name, $value)
       return input ($name, $value, 20, "", "text");
```

```
}
// Typical text input for a form with size
function text input s ($name, $value, $size, $maxsize)
       return input ($name, $value, $size, "", "text", $maxsize);
// Typical text input for a form with size and readonly
function text input sr ($name, $value, $size, $maxsize)
       return input ($name, $value, $size, "", "text", $maxsize, "readonly");
// Typical password input for a form
function password input ($name, $value)
       return input ($name, $value, 20, "", "password");
// Typical password input for a form with size
function password input s ($name, $value, $size, $maxsize)
       return input ($name, $value, $size, "", "password", $maxsize);
// Typical submit input for a form
function submit input ($value)
{
       return input ("formsubmit", $value, "", "", "submit");
}
// Hidden input for a form
function hidden input ($name, $value)
{
       return "<input type=\"hidden\" name=\"$name\" value=\"$value\">\n";
// Input for a form that has more freedom
function input ($name, $value, $size, $id, $type, $maxsize = "", $other opts = "")
       if (!empty ($maxsize))
              $maxsize = "maxlength=\"$maxsize\"";
       if (empty ($size))
              return "<input name=\"$name\" $maxsize id=\"$id\" type=\"$type\" value=\"$value\"
\phi = \phi = \phi 
       else
              return "<input name=\"$name\" $maxsize size=\"$size\" id=\"$id\" type=\"$type\"
value=\"$value\" $other opts>\n";
```

```
}
// Form select which takes html string of options
function select ($name, $options)
       return "<select name=\"$name\">\n$options \n</select>";
}
// Dynamic select used for javascript
function select dyn ($name, $options, $javascript func)
       return "<select onChange=\"$javascript func\" id=\"dyn$name\" name=\"$name\">\n$options \
n</select>";
// Html option used for a select dropdown
function option ($value, $display, $is selected = "")
{
       if (!empty ($is_selected) && $value == $is_selected)
              return "<option selected=\"yes\" value=\"$value\">$display</option>\n";
       else
              return "<option value=\"$value\">$display</option>\n";
}
?>
```

```
index.php
```

```
<?php
CMPS460 Database Project
Group I
April 20, 2009
Authors:
- Trey Alexander
                     (txa4895)
- Dallas Griffith
                     (dlg5367)
- Mark McKelvy
                     (jmm0468)
- Sayooj Valsan
                      (sxv6633)
~~~ CERTIFICATION OF AUTHENTICITY ~~~
The code contained within this script is the combined work of the above mentioned authors.
*/
// Main page user sees whether logged in to site or not. If logged in, shows
// activity and notifications and if admin, also shows time advance box
include once ("common.php");
delta = new delta = t();
echo header ($dbinfo);
mode = get ("mode");
$current script = current script();
$username = $dbinfo->username ();
$curr day = $dbinfo->day ();
$curr hour = $dbinfo->hour ();
$curr minute = $dbinfo->minute ();
x = 0;
$output;
// Remove an outbid notification
if ($dbinfo->logged in () && $mode == "remove")
       $title = get ("t");
       seller = get("s");
       category = get ("c");
       \ensuremath{\$} end_day = get ("d");
       \ensuremath{\$}end hour = get ("h");
```

```
\ensuremath{\$}end min = get ("m");
                           bid day = get ("bd");
                           binder 
                           bigspace % \figure{1.5cm} \figure{
                           $dbinfo->query ("update bids on set display notification = 'c'
where username = '$username'
 AND item title = '$title'
 AND item seller = '$seller'
 AND item category = '$category'
 AND item end day = \$end day
 AND item end hour = $end hour
AND item end minute = $end min
 AND bid day = \$bid day
 AND bid hour = $bid hour
 AND bid minute = $bid min");
// Save feedback
if ($dbinfo->logged in () && $mode == "feedback")
                           // Need to save feedback for user.
                           $title = post ("title");
                           $seller = post ("seller");
                           $category = post ("category");
                           \ensuremath{\$}end day = post ("end day");
                           $end hour = post ("end hour");
                           $end min = post ("end min");
                           $description = fix quotes (post ("feedback"));
                           $rating = post ("rating");
                           for = post ("for");
                           $real title = href ("itemlisting.php?
mode=view&title=$title&seller=$seller&category=$category&end day=$end day&end hour=$end h
our&end minute=$end min", $title);
                           if (for == "buyer")
                                                       $dbinfo->query ("update item listing set sellerfeedbackforbuyer description =
 '$description'
 where title = '$title'
 AND seller = '$seller'
 AND category = '$category'
AND end day = \$end day
 AND end hour = \$end hour
 AND end minute = $end min");
                                                       $dbinfo->save activity ("You left feedback for the winner of your
auction \"$real title\"");
                           if ($for == "seller")
                                                      $dbinfo->query ("update item listing set buyerfeedbackforseller description =
```

```
'$description',
buyerfeedbackforseller rating = $rating
where title = '$title'
AND seller = '$seller'
AND category = '$category'
AND end day = \$end day
AND end hour = \$end hour
AND end minute = $end min");
              $\dbinfo->\save activity ("You left feedback for the seller of the auction \"\$\real title\\"");
       }
}
// The big mambo jambo
if ($dbinfo->logged in ())
       // Get all feedback notifications which you are seller for
       $result = $dbinfo->query ("select * from item listing
where seller = '$username'
AND (end day < $curr day
       OR (end day = \$curr day
              AND end hour < $curr hour)
       OR (end day = \$curr day
              AND end hour = $curr hour
              AND end minute < $curr minute))
AND (buyer <> 'None')
order by end day desc, end hour desc, end minute desc");
       t = \text{new table common } t
       $t->init ("feedback");
       while (list ($title, $seller, $category, $end day, $end hour, $end min,
                 $description, $shipping cost, $shipping method, $starting price.
                 $current price, $picture, $buyer, $buyer fdbk, $buyer fdbk rating,
                 $seller fdbk)
           = mysql fetch row ($result))
              $real title = href ("itemlisting.php?
mode=view&title=$title&seller=$seller&category=$category&end day=$end day&end hour=$end h
our&end minute=$end min", $title);
              $winner realname = href ("profile.php?mode=view&username=$buyer", $dbinfo-
>get realname ($buyer));
              if (empty ($buyer fdbk))
                     $bfdbk = "$winner realname has not left any feedback for you.<br/>";
              else
                     $bfdbk = "$winner realname has given you a rating of \"$buyer fdbk rating\"
and has left the following feedback: \"$buyer fdbk\"";
```

```
if (empty ($seller fdbk))
                     $sfdbk = $t->table begin ().$t->table head begin ().
                            $t->tr ($t->td ("Leave feedback for $winner realname?")).
                            $t->table head end().$t->table body begin().
                            form begin ("$current script?mode=feedback", "post").
                            $t->tr ($t->td (text input s ("feedback", "", 50, 250).
                                           hidden input ("title", $title).
                                           hidden input ("seller", $seller).
                                           hidden_input ("category", $category).
                                           hidden input ("end day", $end day).
                                           hidden input ("end hour", $end hour).
                                           hidden input ("end min", $end min).
                                           hidden input ("for", "buyer")).
                                    $t->td span (submit input ("Save"), "", 1, "center")).
                            form end ().
                            $t->table body end().$t->table end();
              else
                     $sfdbk = "<br/>You left the following feedback: \"$seller fdbk\".";
              [x] = pad time (\end day, \end hour, \end min, 5).div (span (format time))
($end day, $end hour, $end min), "time").
                       "Regarding your auction \"$real_title\" which has ended, $winner_realname
won with a high bid of \$$current price. <br/>$bfdbk$sfdbk", "feedback");
              x++;
       mysql free result ($result);
       // Get all feedback notifications which you are buyer for
       $result = $dbinfo->query ("select * from item listing
where buyer = '$username'
order by end day desc, end hour desc, end minute desc");
       while (list ($title, $seller, $category, $end day, $end hour, $end min,
                 $description, $shipping cost, $shipping method, $starting price,
                 $current price, $picture, $buyer, $buyer fdbk, $buyer fdbk rating,
                 $seller fdbk)
           = mysql fetch row ($result))
       {
              $real title = href ("itemlisting.php?
mode=view&title=$title&seller=$seller&category=$category&end day=$end day&end hour=$end h
our&end minute=$end min", $title);
              $seller realname = href ("profile.php?mode=view&username=$seller", $dbinfo-
>get realname ($seller));
              if (empty ($seller fdbk))
                     $sfdbk = "$seller realname has not left any feedback for you. <br/>>";
              else
                     $sfdbk = "$seller realname has left the following feedback: \"$seller fdbk\"";
```

```
if (empty ($buyer fdbk))
                      $options = "";
                      for (\$i = 10; \$i >= 0; \$i--)
                             $options = $options.option ($i, $i, "");
                      $bfdbk = $t->table begin ().$t->table head begin ().
                             $t->tr ($t->td ("Leave feedback for $seller realname?")).
                             $t->table head end().$t->table body begin().
                             form begin ("$current script?mode=feedback", "post").
                             $t->tr ($t->td (text input s ("feedback", "", 50, 250).
                                           hidden input ("title", $title).
                                           hidden input ("seller", $seller).
                                            hidden input ("category", $category).
                                           hidden input ("end day", $end day).
                                           hidden input ("end hour", $end hour).
                                            hidden input ("end min", $end min).
                                            hidden input ("for", "seller")).
                                    $t->td (select ("rating", $options)).
                                    $t->td span (submit input ("Save"), "", 1, "center")).
                             form end ().
                             $t->table body end().$t->table end();
              else
                      $bfdbk = "<br/>You rated $seller realname '$buyer fdbk rating' and left the
following feedback: \"$buyer fdbk\".";
              $output[$x] = pad time ($end day, $end hour, $end min, 5).div (span (format time
($end day, $end hour, $end min), "time").
                       "Regarding the auction \"$real_title\" you have won with a high bid of \$
$current price.<br/>$sfdbk$bfdbk", "feedback");
              x++:
       mysql free result ($result);
       // Get all closed auction notifications
       list ($lastvisit day, $lastvisit hour, $lastvisit min) = $dbinfo->get lastlogout ($username);
       if ($lastvisit day != -1)
       {
              // Get closed auctions they have bid on, since last visit
              $result = $dbinfo->query ("select * from bids on
where username = '$username'
AND (item end day < $curr day
       OR (item end day = \$curr day
              AND item end hour < $curr hour)
       OR (item end day = \$curr day
```

```
AND item end hour = $curr hour
              AND item end minute < $curr minute))
AND (item end day > $lastvisit day
       OR (item end day = $lastvisit day
              AND item end hour > $lastvisit hour)
       OR (item end day = $lastvisit day
              AND item end hour = $lastvisit hour
              AND item end minute >= $lastvisit min))
order by item end day desc, item end hour desc, item end minute desc");
              while (list ($user, $title, $seller, $category, $end day, $end hour, $end min,
                        $bid day, $bid hour, $bid min, $bid amt)
                  = mysql fetch row ($result))
                     $real title = href ("itemlisting.php?
mode=view&title=$title&seller=$seller&category=$category&end day=$end day&end hour=$end h
our&end minute=$end min", $title);
                     $seller realname = href ("profile.php?mode=view&username=$seller", $dbinfo-
>get realname ($seller));
                     list ($winner, $winner realname, $win price) =
                            $dbinfo->get winner ($title, $seller, $category, $end day, $end hour,
$end min);
                     if ($winner != -1 && $winner != $username)
                            $winner realname = href ("profile.php?
mode=view&username=$winner", $winner realname);
                            [x] = pad time (\end day, \end hour, \end min, 4).div (span)
(format time ($end day, $end hour, $end min), "time").
                                    "The auction \"$real_title\" by $seller_realname that you have
partipated in has ended since your last visit. ".
                                    "$winner realname won the auction with a bid of \$$win price.",
"closed");
                            x++:
                     else
                            $winner realname = href ("profile.php?
mode=view&username=$winner", $winner realname);
                            [x] = pad time (\end day, \end hour, \end min, 4).div (span)
(format time ($end day, $end hour, $end min), "time").
                                    "The auction \"$real_title\" by $seller_realname that you have
partipated in has ended since your last visit. ".
                                    "You won the auction with a bid of \$$win price.", "closed");
                            x++
             mysql free result ($result);
             // Get closed auctions they are the seller for
              $result = $dbinfo->query ("select * from item listing")
```

```
where seller = '$username'
AND (end day < $curr day
       OR (end day = \$curr day
              AND end hour < $curr_hour)
       OR (end day = \$curr day
              AND end hour = $curr hour
              AND end minute < $curr minute))
AND (end day > $lastvisit day
       OR (end day = $lastvisit day
              AND end hour > $lastvisit hour)
       OR (end day = $lastvisit day
              AND end hour = $lastvisit hour
              AND end minute >= $lastvisit min))
order by end day desc, end hour desc, end minute desc");
              t = \text{new table common } t()
              $t->init ("feedback");
              while (list ($title, $seller, $category, $end day, $end hour, $end min,
                       $description, $shipping cost, $shipping method, $starting price,
                       $current price, $picture, $buyer, $buyer fdbk, $buyer fdbk rating,
                       $seller fdbk)
                  = mysql fetch row ($result))
                     $real title = href ("itemlisting.php?
mode=view&title=$title&seller=$seller&category=$category&end day=$end day&end hour=$end h
our&end minute=$end min", $title);
                     if ($buver == "None")
                            [x] = pad time (\end day, \end hour, \end min, 4).div (span)
(format time ($end day, $end hour, $end min), "time").
                                    "Your auction \"$real title\" has ended since your last visit with
no buyer.", "closed");
                            x++:
                     else
                            $winner realname = href ("profile.php?mode=view&username=$buyer",
$dbinfo->get realname ($buyer));
                            [x] = pad time (\end day, \end hour, \end min, 4).div (span)
(format_time ($end_day, $end hour, $end min), "time").
                                    "Your auction \"$real title\" has ended since your last visit, with
$winner realname winning with a high bid of \$$current price.", "closed");
                            x++:
                     }
             mysql free result ($result);
       }
       // Get all "outbid" notifications
```

```
$result = $dbinfo->query ("select * from bids on
where username = '$username'
AND (item end day > $curr day
       OR
             (item end day = $curr day AND item end hour > $curr hour)
             (item end day = $curr day AND item end hour = $curr hour AND item end minute
       OR
> $curr minute)
AND display notification = 'y'
order by bid day desc, bid hour desc, bid minute desc");
       while (list ($user, $title, $seller, $category, $end day, $end hour, $end min,
                $bid day, $bid hour, $bid min, $bid amt)
          = mysql fetch row ($result))
       {
              $real title = href ("itemlisting.php?
mode=view&title=$title&seller=$seller&category=$category&end day=$end day&end hour=$end h
our&end minute=$end min", $title);
             // Find the person that out bid "you"
             $result2 = $dbinfo->query ("select username, bid amount, bid day, bid hour,
bid minute from bids on
where item title = '$title'
AND item seller = '$seller'
AND item category = '$category'
AND item end day = \$end day
AND item end hour = $end hour
AND item end minute = $end min
AND bid amount > $bid amt
order by bid amount");
             list ($outbid user, $outbid amt, $outbid day, $outbid hour, $outbid min)
                    = mysql fetch row ($result2);
             mysql free result ($result2);
             // Find the current highest bidder for the item.
             $result2 = $dbinfo->query ("select username, bid amount, bid day, bid hour,
bid minute from bids on
where item title = '$title'
AND item seller = '$seller'
AND item category = '$category'
AND item end day = \$end day
AND item end hour = $end hour
AND item end minute = $end min
order by bid amount desc");
             list ($highest user, $highest amt, $highest day, $highest hour, $highest min)
                    = mysql fetch row ($result2);
             mysql free result ($result2);
              $outbid realname = href ("profile.php?mode=view&username=$outbid user", $dbinfo-
>get realname ($outbid user));
             $highest realname = href ("profile.php?mode=view&username=$highest user",
$dbinfo->get realname ($highest user));
              $seller realname = href ("profile.php?mode=view&username=$seller", $dbinfo-
>get realname ($seller));
```

```
$bid diff = $outbid amt - $bid amt;
               $highest bid diff = $highest amt - $bid amt;
               [x] = pad time (soutbid day, soutbid hour, soutbid min, 6).div (div (href))
("$current script?
mode=remove&t=$title&s=$seller&c=$category&d=$end day&h=$end hour&m=$end min&bd=$bi
d day&bh=$bid hour&bm=$bid min", "X"), "outbid hide").
                        span (format time ($outbid day, $outbid hour, $outbid min), "time").
                        "Soutbid realname outbid you by \$$bid diff on $seller realname's auction
of \"$real title\" with a bid of \$$outbid amt. <br/>'".
                        span (format time ($highest day, $highest hour, $highest min),
"time2"). "$highest realname became the highest bidder (\$$highest bid diff over your bid) with a bid
of \$$highest amt. <br/>''.
                        span (format time ($end day, $end hour, $end min), "time2")." The auction
will end.", "outbid");
               x++:
       mysql free result ($result);
       // Get user activity
       $result = $dbinfo->query ("select day, hour, minute, activity from user activity
where username = '$username'
AND activity != 'Current Time'
order by day desc, hour desc, minute desc");
       while (list (d, h, m, a) = mysql fetch row (result)
               [x] = pad time (d, h, m, 3).div (span (format time (d, h, m), div (span (format time (d, h, m), div (span (format time (d, h, m), div (span (format time (d, h, h, m), div (span (format time (d, h, h, h, h)))]
"time")."$a", "useractivity");
               x++:
       mysql free result ($result);
       // Actual output of all notifications, sorted by time
       echo h3 ("Welcome to your home page.");
       cout ("Activity and notifications:");
       if (\$x > 1)
               rsort ($output);
       else
               cout ("None.");
       for (\$i = 0; \$i < count (\$output); \$i++)
               echo substr ($output[$i], strpos ($output[$i], " "), strlen ($output[$i]));
else // user is not logged in
       $loginlink = href ("login.php", "Login");
       $reglink= href ("registration.php", "Register");
       echo <<<HEREDOC
```

```
Welcome "iBay", presented by CMPS460 Group I!<br/>
You will need to $loginlink or $reglink to proceed further. HEREDOC; echo_div("home-img"); echo local_img("gavel.jpg"); end_div(); }
echo_footer ($dbinfo);
```

```
itemlisting.php

<?php
/*

CMPS460 Database Project

Group I

April 20, 2009

Authors:

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- Mark McKelvy (jmm0468)

- Sayooj Valsan (sxv6633)
```

~~~ CERTIFICATION OF AUTHENTICITY ~~~

The code contained within this script is the combined work of the above mentioned authors. \*/

// Handles item / auction listing related things such as display, bidding, // editing, deleting

function validate\_required (field)

```
{
       // http://www.w3schools.com/jS/js form validation.asp
       // http://webcheatsheet.com/javascript/form_validation.php
       with (field)
               if (value == null || value == "" || value == "-")
                      field.style.background = 'Yellow';
                      return false;
               else
                      return true;
       }
function field set (fieldvar, field)
       if (fieldvar == null)
               return field;
       else
               return fieldvar;
}
function append with newline (orig, append text)
       if (orig!= null)
               return orig + '\\n' + append_text;
       return append text;
function validate form (thisform)
       var field of focus;
       var alert message;
       reset inputs (thisform);
       with (thisform)
               if (validate required (title) == false)
                      field of focus = field set (field of focus, title);
                      alert message = append with newline (alert_message, "Auction title required.");
               if (validate required (description) == false)
                      field of focus = field set (field of focus, description);
```

```
alert message = append with newline (alert message, "Auction description
required.");
              if (alert message != null)
                      alert (alert message);
                      field of focus.focus();
                      return false;
       }
function local img (file)
       return "images/" + file;
function image swap ()
       var image = document.getElementById ("dynimg");
       var cat = document.getElementById ("dyncategory");
       var pic = document.getElementById ("dynpicture");
       image.src = local img (cat.value.toLowerCase ().replace (" ", " ") + pic.value);
}
/* onload = function() */
/* { */
       image swap (); */
/* } */
</script>
HEREDOC; // end javascript functions
mode = get ("mode");
$current script = current script();
$username = $dbinfo->username ();
$curr day = $dbinfo->day ();
$curr hour = $dbinfo->hour ();
$curr minute = $dbinfo->minute ();
$title = get ("title");
$seller = get ("seller");
$category = get ("category");
$end day = get ("end day");
$end hour = get ("end hour");
$end minute = get ("end minute");
// Redirect if not logged in
```

```
if (!$dbinfo->logged in ())
       redirect ("index.php");
// Kind of a catch-all form for editing & creating auctions
function item listing form (\$mode = "new", \$t = "", \$s = "", \$c = "", \$d = -1, \$h = -1, \$m = -1)
       global $dbinfo;
       global $current script;
       global $curr day, $curr hour, $curr minute;
       // If editing auction, fetch the current information from the database
       if ($mode == "edit" && $m != -1 && $dbinfo->auction exists ($t, $s, $c, $d, $h, $m))
               $result = $dbinfo->query ("select * from item listing"
where title = '$t'
AND seller = '\$s'
AND category = '$c'
AND end day = d
AND end hour = h
AND end minute = m');
              if ($result)
                      list ($title, $seller, $category, $end day, $end hour, $end min,
                          $description, $shipping cost, $shipping method, $starting price,
                          $current price, $picture, $buyer, $buyer fdbk, $buyer fdbk rating,
                          $seller fdbk)
                             = mysql fetch row ($result);
              else if ($dbinfo->debug ())
                      mysql free result ($result);
                      die (mysql error ());
              else
                      mysql free result ($result);
                      echo "Couldn't get auction information.";
                      return;
       else if ($mode != "new")
       {
              echo "You've reached this page in error.";
              return;
       }
       // Start writing table to page
       echo h3 ("Auction Management");
       to the stable = new table common t();
```

```
$table->init ("itemlisting");
       echo $table->table begin ();
       echo $table->table head begin ();
       if (\$mode == "edit")
              echo $table->tr ($table->td span ("Edit your auction", "", 2));
       else
              echo $table->tr ($table->td span ("Create a new auction", "", 2));
       echo $table->tr end ();
       echo $table->table head end ();
       echo $table->table body begin ():
       // Different modes depending on if editing or making new
       if (\$mode == "edit")
               echo form begin n ("$current script?mode=save", "post", "item listing form", "return
validate form (this)");
              echo $table->tr ($table->td ("Title<br/>".href ("$current script?
mode=delete&title=$t&seller=$s&category=$c&end day=$d&end hour=$h&end minute=$m".
"Delete Auction")).
                              $table->td (text input sr ("title", $t, 20, 50).
                                        alert ("A required field, this is the title of the auction", "?")));
              if ($\font{\$dbinfo-\}is admin () && \$username != \$s)
                      echo $table->tr ($table->td ("Seller").
                                      $table->td (text input sr ("seller", $s, 20, 50).
                                               alert ("The person who initiated the auction.", "?")));
              else
                      echo hidden input ("seller", $s);
              echo $table->tr ($table->td ("Category").
                              $table->td (input ("category", $c, 20, "dyncategory", "text", 50,
"readonly").
                                        alert ("An auction can only belong to one category.", "?")));
              echo $table->tr ($table->td ("Description").
                              $table->td (text input s ("description", $description, 50, 250).
                                        alert ("Under no circumstances leave this blank.
Be....descriptive", "?")));
              echo $table->tr ($table->td ("Closing Time").
                              $\table->\td (text input sr ("closing time", format time (\$d, \$h, \$m), 20,
50).
                                        alert ("Up to 10 days in advance. When do you want the fun to
end?", "?").
                                        hidden input ("end day", $d).
                                        hidden input ("end hour", $h).
                                        hidden input ("end minute", $m)));
              Soptions = "":
               $options = $options.option ("FedEx", "FedEx", $shipping method);
              $options = $options.option ("UPS", "UPS", $shipping method);
              $options = $options.option ("Air", "Air", $shipping method);
```

```
echo $table->tr ($table->td ("Shipping Method").
                              $table->td (select ("shipping method", $options).
                                         alert ("Sorry, we no longer ship via horse and carriage.", "?")));
               $options = "":
               for (\$i = 1; \$i \le 100; \$i++)
                      $options = $options.option ($i, "\$$i.00", $shipping cost);
               echo $table->tr ($table->td ("Shipping Cost").
                              $table->td (select ("shipping cost", $options).
                                         alert ("Your best estimate please.", "?")));
               echo $table->tr ($table->td ("Starting Price").
                              $table->td ("\$".text input sr ("starting price", $starting price, 10, 10).
                                         alert ("Be competitive.", "?")));
               $options = "";
               for (\$i = 1; \$i \le 3; \$i++)
                      $cat = str replace (str replace (" ", " ", strtolower ($category)), "", $picture);
                      $options = $options.option ("$i.jpg", "Picture $i", $cat);
               echo $table->tr ($table->td ("Picture").
                              $table->td (select dyn ("picture", $options, "image swap()").
                                         hreft ("category pictures.php", "?", " blank")."<br/>'".
                                         local img ($picture)));
               echo $table->tr ($table->td span (submit input ("Save"), "", 2, "center"));
       else // making new listing
               echo form begin n ("$current script?mode=savenew", "post", "item listing form",
"return validate form (this)");
               echo $table->tr ($table->td ("Title").
                              $table->td (text input s ("title", $t, 20, 50).
                                         alert ("A required field, this is the title of the auction", "?")));
               $options = "";
               $options = $options.option ("Art", "Art");
               $options = $options.option ("Books", "Books");
               $options = $options.option ("Clothing", "Clothing");
               $options = $options.option ("Collectibles", "Collectibles");
               $options = $options.option ("Electronics", "Electronics");
               $options = $options.option ("Entertainment", "Entertainment");
               $options = $options.option ("Jewelry", "Jewelry");
               $options = $options.option ("Sporting Goods", "Sporting Goods");
               $options = $options.option ("Toys", "Toys");
               echo $table->tr ($table->td ("Category").
                              $table->td (select_dyn ("category", $options, "image_swap()").
                                         alert ("An auction can only belong to one category.", "?")));
               echo $table->tr ($table->td ("Description").
                              $table->td (text input s ("description", "", 50, 250).
                                         alert ("Under no circumstances leave this blank.
Be....descriptive", "?")));
               $options = "";
```

```
for (\$i = \$curr \ day; \$i \le \$curr \ day + 7; \$i++)
                       for (\$j = (\$i == \$curr \ day)? \$curr \ hour + 1 : 0; \$j < 24; \$j++)
                              $options = $options.option ("$i $j 0", format_time ($i, $j, 0));
               echo $table->tr ($table->td ("Closing Time").
                               $table->td (select ("closing time", $options).
                                          alert ("Up to 10 days in advance. When do you want the fun to
end?", "?")));
               $options = "";
               $options = $options.option ("FedEx", "FedEx");
               $options = $options.option ("UPS", "UPS");
               $options = $options.option ("Air", "Air");
               echo $table->tr ($table->td ("Shipping Method").
                               $table->td (select ("shipping method", $options).
                                         alert ("Sorry, we no longer ship via horse and carriage.", "?")));
               $options = "";
               for (\$i = 1; \$i \le 100; \$i++)
                       soptions = soptions.option (si, "\ssi.00");
               echo $table->tr ($table->td ("Shipping Cost").
                               $table->td (select ("shipping cost", $options).
                                         alert ("Your best estimate please.", "?")));
               $options = "";
               for (\$i = 1; \$i \le 350; \$i++)
               {
                       soptions = soptions.option ("$i.00", "\$$i.00");
                       $options = $options.option ("$i.50", "\$$i.50");
               echo $table->tr ($table->td ("Starting Price").
                               $table->td (select ("starting price", $options).
                                         alert ("Be competitive.", "?")));
               $options = "";
               for (\$i = 1; \$i \le 3; \$i++)
                       $options = $options.option ("$i.jpg", "Picture $i");
               echo $table->tr ($table->td ("Picture").
                               $table->td (select_dyn ("picture", $options, "image_swap()").
                                         hreft ("category pictures.php", "?", " blank")."<br/>'".
                                         local img ("art1.jpg")));
               echo $table->tr ($table->td span (submit input ("Create"), "", 2, "center"));
       echo form end ();
       echo $table->table body end ();
       echo $table->table end ();
}
```

```
// Very simple checking of the form data to meet basic requirements
function verify data ()
       global $dbinfo, $errors, $post title, $post seller,
               $post category,
               $post end day, $post end hour, $post end minute,
               $post closing time, $post description,
               $post shipping method,
               $post shipping cost, $post starting price,
               $post picture;
       $errors = "";
       $post title = fix quotes (post ("title"));
       $post seller = post ("seller");
       $post category = post ("category");
       $post closing time = post ("closing time");
       $post end day = strtok ($post closing time, " ");
       $post end hour = strtok (" ");
       $post end minute = strtok (" ");
       $post description = fix quotes (post ("description"));
       $post shipping method = post ("shipping method");
       $post shipping cost = post ("shipping cost");
       $post starting price = post ("starting_price");
       $post picture = post ("picture");
       if (empty ($post title))
               $errors = $errors.li ("Title can't be empty.");
       if (strlen (\$post title) > 50)
               $errors = $errors.li ("Title can't more than 50 characters.");
       if (empty ($post description))
               $errors = $errors.li ("Description can't be empty.");
       if (strlen ($post description) > 250)
               $errors = $errors.li ("Description can't be more than 250 characters.");
       return $errors;
// Handle bid
if (\$mode == "bid")
       $bid title = (post ("title"));
       $bid seller = post ("seller");
       $bid category = post ("category");
       $bid end day = post ("end day");
       $bid end hour = post ("end hour");
       $bid end minute = post ("end minute");
       $bid amount = post ("bid amount");
       list ($highest bidder, $amt) = $dbinfo->get highest bidder ($bid title, $bid seller,
$bid category,
```

```
$bid end day, $bid end hour,
$bid end minute);
       if ($highest bidder != $username)
              $dbinfo->update auction before bid (
                     $bid title, $bid seller, $bid category,
                     $bid end day, $bid end hour, $bid end minute,
                     $bid amount);
              $dbinfo->query ("insert into bids on values ('$username', '$bid title', '$bid seller',
'$bid category', $bid end day, $bid end hour, $bid end minute, $curr day, $curr hour,
$curr minute, $bid amount, 'n')");
              $\dbinfo->\save activity ("Bid \$\bid amount on the auction: \"".href ("itemlisting.php?
mode=view&title=$bid title&seller=$bid seller&category=$bid category&end day=$bid end day&e
nd hour=$bid end hour&end minute=$bid end minute", $bid title)."\".");
       else
              echo "Errors were detected. Please correct before continuing:<br/><br/>";
              echo ul (li ("Don't double bid!"));
              $dbinfo->save activity ("You tried to game the system by double bidding \$
$bid amount on the auction: \"".href ("itemlisting.php?
mode=view&title=$bid title&seller=$bid seller&category=$bid category&end day=$bid end day&e
nd hour=$bid end hour&end minute=$bid end minute", $bid title)."\".");
       $mode = "view":
}
// View an auction listing
if ($mode == "view")
       sfdbk = get ("sfdbk");
       $bfdbk = get ("bfdbk");
       if ($dbinfo->is admin() && !empty ($sfdbk))
              $dbinfo->query ("update item listing set
sellerfeedbackforbuyer description = "
where title = '$title'
AND seller = '$seller'
AND category = '$category'
AND end day = \$end day
AND end hour = $end hour
AND end minute = $end minute");
       if ($dbinfo->is admin() && !empty ($bfdbk))
              $dbinfo->query ("update item listing set
buyerfeedbackforseller description = ",
buyerfeedbackforseller rating = -1
```

```
where title = '$title'
AND seller = '$seller'
AND category = '$category'
AND end day = \$end day
AND end hour = $end hour
AND end minute = $end minute");
       $result = $dbinfo->query ("select * from item listing
where title = '$title'
AND seller = '$seller'
AND category = '$category'
AND end day = \$end day
AND end hour = \$end hour
AND end minute = $end minute");
       if (mysql num rows (\$result) == 0)
              cout ("Invalid item listing.");
       else
              list ($title, $seller, $category, $end day, $end hour, $end min,
                  $description, $shipping cost, $shipping method, $starting price,
                  $current price, $picture, $buyer, $buyer fdbk, $buyer fdbk rating,
                  $seller fdbk)
                     = mysql fetch row ($result);
              mysql free result ($result);
              t = \text{new table common } t
              $t->init ("itemlisting");
              $seller realname = href ("profile.php?mode=view&username=$seller", $dbinfo-
>get realname ($seller));
              list (d, h, m) = dinfo->get registration date (seller);
              $seller registration = format time ($d, $h, $m);
              $closed = is older ($end day, $end hour, $end minute, $curr day, $curr hour,
$curr minute);
              if ($closed)
                     time message = t->tr (t->td ("Ended on:").
                                           $t->td (format time ($end day, $end hour, $end min)));
                     $curr price message = $t->tr ($t->td ("End Price:").
                                              $t->td ("\$$current price"));
                     // feedback
                     if ($buyer fdbk rating != -1)
                            if ($dbinfo->is admin())
                                   $url = "$current script?";
```

```
foreach ($ GET as $var => $val)
                                            $url = $url."$var=$val&";
                                    $url = $url."bfdbk=delete";
                                    fdbk = t- (t- t) ("Feedback from buyer: < t- t).
                                                          href ($url, "Delete")).
                                                   $t->td ($buyer fdbk." Rating:
$buyer fdbk rating"));
                             }
                             else
                             {
                                    fdbk = t- (t- td ("Feedback from buyer:").
                                                   $t->td ($buyer fdbk." Rating:
$buyer fdbk rating"));
                             }
                     else
                             $fdbk = $t->tr ($t->td ("Feedback from buyer:").
                                           $t->td ("None."));
                     // feedback
                      if (!empty ($seller fdbk))
                             if ($dbinfo->is admin ())
                                    $url = "$current script?";
                                    foreach ($ GET as $var => $val)
                                           $url = $url."$var=$val&";
                                    $url = $url."sfdbk=delete";
                                    $fdbk = $fdbk.$t->tr ($t->td ("Feedback from seller:<br/>".
                                                              href ($url, "Delete")).
                                                       $t->td ($seller fdbk));
                             }
                             else
                                    $fdbk = $fdbk.$t->tr ($t->td ("Feedback from seller:").
                                                      $t->td ($seller fdbk));
                             }
                      }
                      else
                             $fdbk = $fdbk.$t->tr ($t->td ("Feedback from seller:").
                                               $t->td ("None."));
                      }
              else
                      time message = t->tr (t->td ("Ends on:").
                                            $t->td (format time ($end day, $end hour, $end min)));
```

```
list ($highest bidder, $highest bid) =
                             $dbinfo->get highest bidder ($title, $seller, $category, $end day,
$end hour, $end min);
                      if ($highest bidder == "None")
                             $highest bid = $current price;
                     // bid form
                      if ($username != $seller &&
                        $username != $highest bidder)
                             $options = "";
                             for (\$i = \$highest bid + 0.50; \$i \le \$highest bid + 50; \$i += 0.50)
                                    i = sprintf("\%.2f", i);
                                    soptions = soptions.option (si, "\ssi");
                             $url = "$current script?";
                             foreach ($ GET as $var => $val)
                                    $url = $url."$var=$val&";
                             $url = $url."mode=bid";
                             $curr price message = $t->tr ($t->td ("Current Price:").
                                                       $t->td ("\$$current price".
                                                              form_begin ("$url", "post").
                                                              select ("bid amount", $options).
                                                              hidden input ("title", $title).
                                                              hidden input ("seller", $seller).
                                                              hidden_input ("category", $category).
                                                              hidden input ("end_day", $end_day).
                                                              hidden input ("end hour", $end hour).
                                                              hidden input ("end minute",
$end min).
                                                              submit input ("Place Bid").
                                                              form end ()));
                      }
                      else
                      {
                             $curr price message = $t->tr ($t->td ("Current Price:").
                                                       $t->td ("\$$current price"));
                      }
              $num bids = $dbinfo->get num bids ($title, $seller, $category, $end day, $end hour,
$end min);
              if ($username == $seller || $dbinfo->is admin ())
                      echo div ("scriptstatus");
                      echo href ("$current script?
mode=edit&title=$title&seller=$seller&category=$category&end day=$end day&end hour=$end ho
ur&end minute=$end minute", "Edit Listing");
```

```
echo " | ";
                     echo href ("$current script?
mode=delete&title=$title&seller=$seller&category=$category&end day=$end day&end hour=$end
hour&end minute=$end minute", "Delete Listing");
                     end div ();
              // output auction info
              echo $t->table begin ().$t->table head begin ().
                     $t->tr ($t->td span ("Auction Listing: \"".$title."\"", "", 2)).
                     $t->table_head_end().$t->table_body_begin().
                     $t->tr ($t->td span (local img ($picture), "", 2, "center")).
                     $t->tr ($t->td ("Start price:").
                             $t->td ("\$$starting price")).
                     $t->tr ($t->td ("Shipping:").
                             $t->td ("\$$shipping cost ($shipping method)")).
                     $curr price message.
                     $t->tr ($t->td ("Number of bids:").
                             $t->td ("$num bids")).
                     $t->tr ($t->td ("Description:").
                             $t->td ($description)).
                     $t->tr ($t->td ("Sold by:").
                             $t->td ("$seller realname<br/>(Registered since $seller registration)")).
                     $t->tr ($t->td ("Sold in:").
                             $t->td ($category)).
                     $time message.
                     $fdbk.
                     $t->table body end().$t->table end();
              // Get bid history for item.
              if (false && $dbinfo->debug ())
                     cout ("Debug enabled.");
                     cout ("select username, bid day, bid hour, bid minute, bid amount from
bids on
where item title = '$title'
AND item seller = '$seller'
AND item category = '$category'
AND item end day = \$end day
AND item end hour = $end hour
AND item end minute = $end minute
order by bid amount desc");
              $\text{sresult} = \text{$dbinfo->query ("select username, bid day, bid hour, bid minute, bid amount}
from bids on
where item title = '$title'
AND item seller = '$seller'
AND item category = '$category'
AND item end day = \$end day
```

```
AND item_end hour = $end hour
AND item end minute = $end minute
order by bid amount desc");
              cout ("");
              cout ("Bid history:");
              if (mysql num rows (\$result) == 0)
                     echo div ("None.", "bidhistory");
              else
                     while (list ($bidder, $bid day, $bid hour, $bid minute, $bid amount)
                          = mysql fetch row ($result))
                             $bidder realname = href ("profile.php?mode=view&username=$bidder",
$dbinfo->get realname ($bidder));
                             echo div (span (format time ($bid day, $bid hour, $bid minute),
"time").
                                     "$bidder realname bid \$$bid amount.", "bidhistory");
                     }
              }
else if ($mode == "new") // make a new auction listing
       item listing form ($mode);
else if ($mode == "edit") // edit an auction listing
       item listing form ($mode, $title, $seller, $category, $end day, $end hour, $end minute);
else if ($mode == "savenew") // save a new auction listing
              verify data ();
              if ($dbinfo->auction exists ($post title, $username, $post category,
                                       $post end day, $post end hour, $post end minute))
                     $errors = $errors.li ("Auction already exists.");
              if (!empty ($errors))
                     echo "Errors were detected. Please correct before continuing:<br/><br/>";
                     echo ul ($errors);
                     echo href ("$current script?mode=new", "Go to create a new listing.");
              else
                     $post_picture = str_replace (" ", "_", strtolower ($post_category.$post_picture));
```

```
// insert item into the database
                     $dbinfo->query ("insert into item listing values (
'$post title',
'$username',
'$post category',
$post end day,
$post end hour,
$post end minute,
'$post description',
$post shipping cost,
'$post shipping method',
$post starting price,
$post starting_price,
'$post picture',
-1,
")");
                     if (!$dbinfo->auction exists ($post title, $username, $post category,
                                               $post end day, $post end hour, $post end minute))
                     {
                            cout ("Auction listing failed.");
                            cout (href (current script (), "Try again."));
                     else
                            $dbinfo->save activity ("Listed a new auction: \"".href ("itemlisting.php?
mode=view&title=$post title&seller=$username&category=$post category&end day=$post end day
&end hour=$post end hour&end minute=$post end minute", $post title)."\".");
                            cout ("Auction listing successful.");
                            cout ("Would you like to ".href ("itemlisting.php?
mode=view&title=$post title&seller=$username&category=$post category&end day=$post end day
&end hour=$post end hour&end minute=$post end minute", "view")." it?");
else if ($mode == "save") // save an editing (current) auction listing
              verify data ();
              if (!empty ($errors))
                     echo "Errors were detected. Please correct before continuing:<br/><br/>";
                     echo ul ($errors);
              else
                     post end day = post ("end day");
```

```
$post end hour = post ("end hour");
                     $post end minute = post ("end minute");
                     $post_picture = str_replace (" ", "_", strtolower ($post_category.$post_picture));
                     // update item in the database
                     $dbinfo->query ("update item listing set
description = '$post description',
shipping cost = $post shipping cost,
shipping method = '$post shipping method',
picture = '$post picture'
where title = '$post title'
AND seller = '$post seller'
AND category = '$post category'
AND end day = post end day
AND end hour = $post end hour
AND end minute = $post end minute");
                     $dbinfo->save activity ("Edited auction: \"".href ("itemlisting.php?
mode=view&title=$post title&seller=$post seller&category=$post category&end day=$post end da
y&end hour=$post end hour&end minute=$post end minute", $post title)."\".");
                     if ($dbinfo->is admin () && $post seller != $username)
                            $realname = href ("profile.php?mode=view&username=$username",
$dbinfo->realname ());
                            $dbinfo->save activity for ($post seller, "$realname edited your auction:
\"".href ("itemlisting.php?
mode=view&title=$post title&seller=$post seller&category=$post category&end day=$post end da
y&end hour=$post end hour&end minute=$post end minute", $post title)."\".");
                     cout ("Auction update successful.");
                     cout ("Would you like to ".href ("itemlisting.php?
mode=view&title=$post title&seller=$post seller&category=$post category&end day=$post end da
y&end hour=$post end hour&end minute=$post end minute", "view")." it?");
              }
else if ($mode == "delete") // delete an exiting auction listing
       $title = get ("title");
       $seller = get ("seller");
       $category = get ("category");
       \ensuremath{\$} end day = get ("end day");
       $end hour = get ("end hour");
       $end minute = get ("end minute");
       if ($\dbinfo->is admin() || ($\seller == \$\username))
              if ($\dbinfo->\get num bids (\$\title, \$\seller, \$\category,
                                     \end day, \end hour, \end minute) == 0)
                     $dbinfo->query ("delete from item listing
```

```
where title = '$title'
AND seller = '$seller'
AND category = '$category'
AND end day = \$end day
AND end hour = $end hour
AND end minute = $end minute");
                     $dbinfo->save activity ("Deleted the auction \"$title\".");
                     if ($dbinfo->is admin () && ($seller != $username))
                            $realname = href ("profile.php?mode=view&username=$username",
$dbinfo->realname ());
                            $dbinfo->save activity for ($seller, "$realname deleted the
auction \"\stitle\".");
                     cout ("Back to your ".href ("index.php", "home").".");
              else
                     echo "Errors were detected: <br/> ";
                     echo ul (li ("There must be no bids for the item listing."));
                     cout ("Back to the ".href ("itemlisting.php?
mode=view&title=$title&seller=$seller&category=$category&end day=$end day&end hour=$end h
our&end minute=$end minute", "item").".");
       else
       {
              echo "Errors were detected: <br/> ":
              echo ul (li ("Must be an administrator or be the seller for this auction."));
              cout ("Back to the ".href ("itemlisting.php?
mode=view&title=$title&seller=$seller&category=$category&end day=$end day&end hour=$end h
our&end minute=$end minute", "item").".");
       }
echo footer ($dbinfo);
```

```
list common.php
```

```
<?php
CMPS460 Database Project
Group I
April 20, 2009
Authors:
- Trey Alexander
                    (txa4895)
- Dallas Griffith
                    (dlg5367)
- Mark McKelvy
                    (jmm0468)
- Sayooj Valsan
                    (sxv6633)
~~~ CERTIFICATION OF AUTHENTICITY ~~~
The code contained within this script is the combined work of the above mentioned authors.
*/
// HTML list related common functions
// Unordered Lists
function ul begin ()
```

```
{
 return "\n";
function ul_end()
 return "\n";
function ul wrap ($list elems)
 return ul begin ().$list elems.ul end ();
function ul ($list elems)
 return ul wrap ($list elems);
// Ordered Lists
function ol begin ()
```

```
return "\n";
function ol_end()
 return "
n";
function of wrap ($list elems)
 return ol_begin ().$list_elems.ol_end ();
function ol ($list_elems)
 return ol_wrap ($list_elems);
// List elements
function li_begin ()
 return "<\!\!li>\!\!\backslash n";
function li_end()
 return "\n";
function li_wrap ($list_elem)
 return li_begin ().$list_elem.li_end ();
function li ($list_elem)
 return li_wrap ($list_elem);
}
?>
```

```
login.php
 <?php
CMPS460 Database Project
 Group I
 April 20, 2009
 Authors:
 - Trey Alexander
 (txa4895)
 - Dallas Griffith
 (dlg5367)
 - Mark McKelvy
 (jmm0468)
 - Sayooj Valsan
 (sxv6633)
 ~~~ CERTIFICATION OF AUTHENTICITY ~~~
 The code contained within this script is the combined work of the above mentioned authors.
 */
// User login form page
 include once ("common.php");
 delta = new delta = t();
 echo header ($dbinfo);
 if ($dbinfo->logged in ())
                        redirect ("index.php");
// display login form
 $info = post ("username");
 mode = get ("login");
 if (empty ($mode))
                        msg = get ("message");
                        if (!empty ($msg))
                                               cout ($msg);
                        echo h3 ("Login");
                        to ten series the stable of 
                        $table->init ("tbl std");
                        echo $table->table begin ();
                        echo $table->table head begin ();
                        echo $table->tr ($table->td span ("Login with your iBay ID", "", 2));
                        echo $table->table head end ();
```

```
echo $table->table_body_begin ();
       echo form_begin ("login.php?login=y", "post");
       echo $table->tr ($table->td ("Username").
                      $table->td (text input s ("username", "", 20, 50)));
       echo $table->tr ($table->td ("Password").
                      $table->td (password_input_s ("password", "", 20, 50)));
       echo $table->tr ($table->td_span (submit_input ("Login"), "", 2, "center"));
       echo form end ();
       echo $table->table_body_end ();
       echo $table->table end ();
}
// process login
else
       $user = fix quotes (post ("username"));
       $pass = fix quotes (post ("password"));
       if ($dbinfo->login ($user, $pass))
               $dbinfo->close();
              redirect ("index.php");
       else
              $dbinfo->close ();
              redirect ("login.php?message=Login%20Failed!");
       }
}
echo footer ($dbinfo);
?>
```

```
logout.php
<?php
CMPS460 Database Project
Group I
April 20, 2009
Authors:
- Trey Alexander
                    (txa4895)
- Dallas Griffith
                    (dlg5367)
                    (jmm0468)
- Mark McKelvy
- Sayooj Valsan
                    (sxv6633)
~~~ CERTIFICATION OF AUTHENTICITY ~~~
The code contained within this script is the combined work of the above mentioned authors.
*/
// Logout processing page
include_once ("common.php");
$dbinfo = new dbinfo_t ();
```

\$dbinfo->init();

?>

if (!\$dbinfo->connect ())

die ("Couldn't connect to database."); \$dbinfo->logout (); // saves activity and destroys session

```
profile.php
 <?php
 CMPS460 Database Project
 Group I
 April 20, 2009
 Authors:
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 (dlg5367)
 - Mark McKelvv
 (jmm0468)
 - Sayooj Valsan
 (sxv6633)
 ~~~ CERTIFICATION OF AUTHENTICITY ~~~
 The code contained within this script is the combined work of the above mentioned authors.
 */
// Shows the user the available pictures for a profile
 include once ("common.php");
 delta = new delta = 
 echo header ($dbinfo);
cout ("The following are the available profile pictures:");
cout (local img ("default profile.jpg"));
cout ("default profile.jpg");
cout ("");
 for (\$i = 1; \$i \le 7; \$i++) // assume 7 pictures are available
                          cout (local img ("profile$i.jpg"));
                           cout ("profile$i.jpg");
                           cout ("");
 }
echo footer ($dbinfo);
 ?>
```

```
registration.php
<?php
CMPS460 Database Project
Group I
April 20, 2009
Authors:
- Trey Alexander
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- Dallas Griffith
                     (dlg5367)
- Mark McKelvy
                     (jmm0468)
- Sayooj Valsan
                     (sxv6633)
~~~ CERTIFICATION OF AUTHENTICITY ~~~
The code contained within this script is the combined work of the above mentioned authors.
*/
// Handles registration related things such as new users and editing your
// current registration, as well view registered users (admin).
include once ("common.php");
delta = new delta = t();
echo header ($dbinfo);
// Javascript functions for validation/etc..
echo <<<HEREDOC
<script type="text/javascript">
function reset inputs (this form)
 // reset inputs
 // http://webcheatsheet.com/javascript/form_validation.php
 for each (elem in this form. elements)
 if (elem.type == "text" || elem.type == "select-one")
 elem.style.background = ";
 }
function validate required (field)
```

```
// http://www.w3schools.com/jS/js form validation.asp
 // http://webcheatsheet.com/javascript/form_validation.php
 with (field)
 if (value == null || value == "" || value == "-")
 field.style.background = 'Yellow';
 return false;
 else
 return true;
 }
}
function field set (fieldvar, field)
 if (fieldvar == null)
 return field;
 else
 return fieldvar;
}
function append with newline (orig, append text)
 if (orig != null)
 return orig + '\\n' + append text;
 return append text;
function validate email (field)
 // http://www.w3schools.com/jS/js form validation.asp
 // http://webcheatsheet.com/javascript/form_validation.php
 var email filter = /^[^@]+@[^@]+.[^@]*\w\w$/;
 var value = trim (field.value);
 if (value == null
 || value == ""
 | !email filter.test (value)
 || value.match (illegal chars))
 {
 field.style.background = 'Yellow';
 return false;
 return true;
```

```
function trim (string)
 // regex to replace one or more spaces at beginning of string
 // or one or more spaces at end of string, with empty string
 return string.replace (/^\s+|\s+\$/, ");
function validate int (field, length)
 with (field)
 if (value.length \leq length \parallel value * 1 == 0)
 field.style.background = 'Yellow';
 return false;
 else
 return true;
 }
function validate form (thisform)
 var field of focus;
 var alert message;
 reset_inputs (thisform);
 with (thisform)
 if (validate required (username) == false)
 field of focus = field set (field of focus, username);
 alert message = append with newline (alert message, "Username required.");
 if (validate required (password) == false)
 field of focus = field set (field of focus, password);
 alert message = append with newline (alert message, "Password required.");
 if (validate required (password2) == false)
 field of focus = field set (field of focus, password2);
 alert message = append with newline (alert message, "Password confirmation
required.");
```

```
if (password.value != password2.value)
 field of focus = field set (field of focus, password);
 alert message = append with newline (alert message, "Passwords must
match.");
 if (validate required (realname) == false)
 field of focus = field set (field of focus, realname);
 alert message = append with newline (alert message, "Real name required.");
 if (validate required (birth date) == false)
 field of focus = field set (field of focus, birth date);
 alert message = append with newline (alert message, "Birth date required.");
 else if ((birth date.value.length \geq 6) == false)
 field of focus = field set (field of focus, birth date);
 alert message = append with newline (alert message, "Birth date too short.");
 if (validate required (shipping street) == false)
 field of focus = field set (field of focus, shipping street);
 alert message = append with newline (alert message, "Street required.");
 if (validate required (shipping city) == false)
 field of focus = field set (field of focus, shipping city);
 alert message = append with newline (alert message, "City required.");
 if (validate required (shipping zip) == false)
 field of focus = field set (field of focus, shipping zip);
 alert message = append with newline (alert message, "Postal/zip code
required.");
 else if (validate int (shipping zip, 5) == false) // this test works only for US codes
 field of focus = field set (field of focus, shipping zip);
 alert message = append with newline (alert message, "Postal/zip code is not
valid.");
 if (validate required (phone) == false)
 field of focus = field set (field of focus, phone);
 alert message = append with newline (alert message, "Phone number
required.");
```

```
else if ((phone.value.length \geq 10) == false)
 field of focus = field set (field of focus, phone);
 alert message = append with newline (alert message, "Phone number
required.");
 if (validate required (email) == false)
 field of focus = field set (field of focus, email);
 alert message = append with newline (alert message, "E-mail required.");
 else if (validate email (email) == false)
 field of focus = field set (field of focus, email);
 alert message = append with newline (alert message, "E-mail address not
valid.");
 if (validate required (card number) == false)
 field of focus = field set (field of focus, card number);
 alert message = append with newline (alert message, "Credit card number
required.");
 else if (validate int (card number, 12) == false)
 field of focus = field_set (field_of_focus, card_number);
 alert message = append with newline (alert message, "Credit card number is
too short.");
 if (alert message != null)
 alert (alert message);
 field of focus.focus();
 return false;
 }
/* onload = function() */
/* { */
/* } */
</script>
HEREDOC; // end javascript functions
mode = get ("mode");
```

```
$current script = current script();
$get username = get ("username");
get msg = get ("msg");
if (!empty ($get msg))
 echo "$msg";
// Main registration form - kind of catch-all for editing and creating registrations
function registration form ($user = "")
 global $dbinfo;
 global $current script;
 // If editing registration, fetch the current information from the database
 if (!empty ($user) && $dbinfo->user exists ($user))
 $result = $dbinfo->query ("select * from user where username = '$user'");
 if ($result)
 list($username, $passwd, $is admin, $name, $dob, $street,
 $city, $state, $zip, $phone, $email, $cc, $ccn, $ccx,
 $picture, $desc) = mysql fetch row ($result);
 mysql free result ($result);
 else if ($dbinfo->debug ())
 mysql free result ($result);
 die (mysql error ());
 else
 mysql free result ($result);
 echo "Couldn't get user information.";
 return;
 else if (!empty ($username))
 echo "You've reached this page in error.";
 return;
 }
 // Start writing table to page
 echo h3 ("Accounts and Registration");
 to the stable = new table common t();
 $table->init ("tbl std");
 echo $table->table begin ();
```

```
echo $table->table head begin ();
 if (!$dbinfo->logged in ())
 echo $table->tr ($table->td span ("Register for an iBay account", "", 2));
 else if ($dbinfo->logged in () && $user != $dbinfo->username ())
 echo $table->tr ($table->td span ("Update (not) your iBay account", "", 2));
 else
 echo $table->tr ($table->td span ("Update your iBay account", "", 2));
 echo $table->table head end ();
 echo $table->table body begin ();
 // Different modes depending on if user is logged in or not
 if ($dbinfo->logged in ())
 echo form begin n ("$current script?mode=save", "post", "registration form", "return
validate form (this)");
 else
 echo form begin n ("$current script?mode=savenew", "post", "registration form",
"return validate form (this)");
 // If editing, then make username field read only
 if (empty ($user))
 echo $table->tr ($table->td ("Desired Username").
 $table->td (text input s ("username", $username, 30, 50).
 alert ("50 characters or less. Have fun.", "?")));
 else
 echo $table->tr ($table->td ("Username
-".href ("$current script?"
mode=delete&username=$username", "Delete Account")).
 $table->td (text_input_sr ("username", $username, 30, 50)));
 // Passwords must match
 echo $table->tr ($table->td ("Desired Password").
 $table->td (password input s ("password", $passwd, 30, 50).
 alert ("50 characters or less, must match. Make it super secret.", "?")));
 echo $table->tr ($table->td ("Repeat Password").
 $table->td (password input s ("password2", $passwd, 30, 50).
 alert ("You thought there would be something helpful here. Just type
the same thing as in the above box.", "?")));
 // Only allow editing of this if the current user is already an admin
 if ($dbinfo->is admin ())
 $options = "";
 $options = $options.option ("0", "No", $is admin);
 $options = $options.option ("1", "Yes", $is admin);
 echo $table->tr ($table->td ("Admin").
 $table->td (select ("is admin", $options).
 alert ("Give administrator priv.", "?")));
 echo $table->tr ($table->td ("Real Name").
 $table->td (text input s ("realname", $name, 30, 100).
```

```
alert ("100 characters or less. e.g. John Smith", "?")));
echo $table->tr ($table->td ("Birth Date").
 $table->td (text input s ("birth date", $dob, 10, 10).
 alert ("Up to 10 characters, at least 6. e.g. 1980-10-17", "?")));
echo $table->tr ($table->td ("Shipping Street").
 $table->td (text input s ("shipping street", $street, 30, 100).
 alert ("100 characters or less. e.g. 56 Dodo Ln", "?")));
echo $table->tr ($table->td ("Shipping City").
 $table->td (text input s ("shipping city", $city, 30, 50).
 alert ("50 characters or less. e.g. Eunice", "?")));
// Gosh this is a lot - some aren't even states! Ha!
$options = "";
$options = $options.option ("Alabama", "Alabama", $state);
$options = $options.option ("Alaska", "Alaska", $state);
$options = $options.option ("American Samoa", "American Samoa", $state);
$options = $options.option ("Arizona", "Arizona", $state);
$options = $options.option ("Arkansas", "Arkansas", $state);
$options = $options.option ("California", "California", $state);
$options = $options.option ("Colorado", "Colorado", $state);
$options = $options.option ("Connecticut", "Connecticut", $state);
$options = $options.option ("Delaware", "Delaware", $state);
$options = $options.option ("District of Columbia", "District of Columbia", $state);
$options = $options.option ("Florida", "Florida", $state);
$options = $options.option ("Georgia", "Georgia", $state);
$options = $options.option ("Guam", "Guam", $state);
$options = $options.option ("Hawaii", "Hawaii", $state);
$options = $options.option ("Idaho", "Idaho", $state);
$options = $options.option ("Illinois", "Illinois", $state);
$options = $options.option ("Indiana", "Indiana", $state);
$options = $options.option ("Iowa", "Iowa", $state);
$options = $options.option ("Kansas", "Kansas", $state);
$options = $options.option ("Kentucky", "Kentucky", $state);
$options = $options.option ("Louisiana", "Louisiana", $state);
$options = $options.option ("Maine", "Maine", $state);
$options = $options.option ("Maryland", "Maryland", $state);
$options = $options.option ("Massachusetts", "Massachusetts", $state):
$options = $options.option ("Michigan", "Michigan", $state);
$options = $options.option ("Minnesota", "Minnesota", $state);
$options = $options.option ("Mississippi", "Mississippi", $state);
$options = $options.option ("Missouri", "Missouri", $state);
$options = $options.option ("Montana", "Montana", $state);
$options = $options.option ("Nebraska", "Nebraska", $state);
$options = $options.option ("Nevada", "Nevada", $state);
$options = $options.option ("New Hampshire", "New Hampshire", $state);
$options = $options.option ("New Jersey", "New Jersey", $state);
$options = $options.option ("New Mexico", "New Mexico", $state);
$options = $options.option ("New York", "New York", $state);
$options = $options.option ("North Carolina", "North Carolina", $state);
$options = $options.option ("North Dakota", "North Dakota", $state);
```

```
$options = $options.option ("Northern Marianas Islands", "Northern Marianas Islands", $state);
$options = $options.option ("Ohio", "Ohio", $state);
$options = $options.option ("Oklahoma", "Oklahoma", $state);
$options = $options.option ("Oregon", "Oregon", $state);
$options = $options.option ("Pennsylvania", "Pennsylvania", $state);
$options = $options.option ("Puerto Rico", "Puerto Rico", $state);
$options = $options.option ("Rhode Island", "Rhode Island", $state);
$options = $options.option ("South Carolina", "South Carolina", $state);
$options = $options.option ("South Dakota", "South Dakota", $state);
$options = $options.option ("Tennessee", "Tennessee", $state);
$options = $options.option ("Texas", "Texas", $state);
$options = $options.option ("Utah", "Utah", $state);
$options = $options.option ("Vermont", "Vermont", $state);
$options = $options.option ("Virginia", "Virginia", $state);
$options = $options.option ("Virgin Islands", "Virgin Islands", $state);
$options = $options.option ("Washington", "Washington", $state);
$options = $options.option ("West Virginia", "West Virginia", $state);
$options = $options.option ("Wisconsin", "Wisconsin", $state);
$options = $options.option ("Wyoming", "Wyoming", $state);
echo $table->tr ($table->td ("Shipping State").
 $table->td (select ("shipping state", $options).
 alert ("Don't lie on this choice.", "?")));
echo $table->tr ($table->td ("Shipping Zip Code").
 $table->td (text input s ("shipping zip", $zip, 5, 10).
 alert ("5 to 10 digits only. e.g. 90210", "?")));
echo $table->tr ($table->td ("Phone Number").
 $table->td (text input s ("phone", $phone, 12, 12).
 alert ("10 to 12 characters. e.g. 123-456-7890", "?")));
echo $table->tr ($table->td ("Email Address").
 $table->td (text input s ("email", $email, 30, 50).
 alert ("50 characters or less. e.g. bill@hat.com.", "?")));
$options = "";
$options = $options.option ("American Express", "American Express", $cc);
$options = $options.option ("Discover", "Discover", $cc);
$options = $options.option ("Mastercard", "Mastercard", $cc);
$options = $options.option ("Visa", "Visa", $cc);
echo $table->tr ($table->td ("Credit Card Type").
 $table->td (select ("card type", $options).
 alert ("You better have one.", "?")));
echo $table->tr ($table->td ("Credit Card Number").
 $table->td (text input s ("card number", $ccn, 16, 16).
 alert ("12 to 16 digits. e.g. 1111222233334444", "?")));
// For credit card expiration dates
$options = "";
for (\$j = 9; \$j \le 14; \$j++)
 if (\$j \le 10)
 i = 0.5i
```

```
for (\$i = 1; \$i \le 12; \$i++)
 if (\$i < 10)
 i = 0.5i
 soptions = soptions.option ("si/sj", "si/sj", sccx);
 echo $table->tr ($table->td ("Credit Card Expiration").
 $table->td (select ("card expire", $options).
 alert ("Expiration date of your credit card.", "?")));
 // Save or register depending on if logged in
 if ($dbinfo->logged in ())
 {
 echo $table->tr ($table->td span (submit input ("Save"), "", 2, "center"));
 else
 echo $table->tr ($table->td span (submit input ("Register"), "", 2, "center"));
 echo form end ();
 echo $table->table body end ();
 echo $table->table end ();
}
// Very simple checking of the form data to meet basic requirements
function verify data ()
{
 global $dbinfo, $errors, $post username, $passwd1, $passwd2,
 $is admin, $post realname, $post birth date, $post street,
 $post city, $post state, $post zip, $post phone, $post email,
 $post card type, $post card number, $post card expire,
 $post picture, $post description;
 $errors = "";
 $post username = fix quotes (post ("username"));
 $passwd1 = fix quotes (post ("password"));
 $passwd2 = fix quotes (post ("password2"));
 $is_admin = post ("is_admin");
 $post realname = fix_quotes (post ("realname"));
 $post birth date = fix quotes (post ("birth date"));
 $post street = fix quotes (post ("shipping street"));
 $post city = fix quotes (post ("shipping city"));
 $post state = post ("shipping state");
 $post zip = post ("shipping zip");
 $post phone = fix quotes (post ("phone"));
 $post email = fix quotes (post ("email"));
 $post card type = post ("card type");
 $post card number = post ("card number");
```

```
$post card expire = post ("card expire");
 $post picture = "default profile.jpg";
 post description = "N/A";
 if (empty ($post username))
 $errors = $errors.li ("Username can't be empty.");
 if (!$dbinfo->logged in () && $dbinfo->user exists ($post username))
 $errors = $errors.li ("Username already exists.");
 if (strlen (\$post username) > 50)
 $errors = $errors.li ("Username must be less than 50 characters.");
 if (empty ($passwd1))
 $errors = $errors.li ("Password can't be empty");
 if ($passwd1 != $passwd2)
 $errors = $errors.li ("Passwords don't match");
 if ($dbinfo->is admin () && $is admin == 0 && $dbinfo->username () == $post username)
 $result = $dbinfo->query ("select username from user where username!=
'$post username' AND is admin = 1");
 if (mysql num rows (\$result) == 0)
 $errors = $errors.li ("The number of users left that are admins can't be zero.");
 if (empty ($post realname))
 $errors = $errors.li ("Name can't be empty");
 if (empty ($post birth date))
 $errors = $errors.li ("Birth date can't be empty");
 else if (strlen ($post birth date) < 6)
 $errors = $errors.li ("Birth date too short");
 if (empty ($post street))
 $errors = $errors.li ("Street can't be empty");
 if (empty ($post city))
 $errors = $errors.li ("City can't be empty");
 if ($post zip + 0 \le 0)
 $errors = $errors.li ("Invalid zip code");
 else if (strlen (\$post zip) < 5)
 $errors = $errors.li ("Zip code too short");
 if (empty ($post phone))
 $errors = $errors.li ("Phone number can't be empty");
 else if (strlen ($post phone) < 10)
 $errors = $errors.li ("Phone number too short");
 if (strlen ($post email) < 5)
 $errors = $errors.li ("Invalid e-mail");
 if (\$post card number + 0 <= 0)
 $errors = $errors.li ("Invalid credit card number");
 else if (strlen ($post card number) < 12)
 $errors = $errors.li ("Credit card number too short");
 return $errors;
}
```

```
if ($dbinfo->logged in ())
 $user = $dbinfo->username ();
 // Admin user may be editing/viewing another user's page
 if ($dbinfo->is admin () && !empty ($get username))
 $user = $get username;
 if ($mode == "login as" && !empty ($get username))
 $dbinfo->save activity ("Logged in as '$user'.");
 $dbinfo->login as ($user);
 echo href ("$current script?", "Click to refresh.");
 // Admin wants to delete a user
 else if ($mode == "delete" && $dbinfo->is admin () && !empty ($get username) &&
$get username != $dbinfo->username ())
 $errors = "";
 // check to make sure not last user and that there is at least one admin
 $result = $dbinfo->query ("select username from user where username != '$user' AND
is admin = 1");
 if (mysql num rows (\$result) == 0)
 $errors = $errors.li ("The number of users left that are admins can't be zero.");
 mysql free result ($result);
 // check to make sure not participating in as buyer or seller in any auctions
 $result = $dbinfo->query ("select count(*) from item listing where seller = '$user' OR
buyer = '\$user''');
 list ($count) = mysql fetch_row ($result);
 if (\$count !=0)
 $errors = $errors.li ("The user must have not partipated in any auctions as seller
or buyer.");
 mysql free result ($result);
 if (empty ($errors))
 $dbinfo->save activity ("Deleted user '$user'.");
 $dbinfo->query ("delete from user activity where username = '$user'");
 $dbinfo->query ("delete from bids on where username = '$user'");
 $dbinfo->query ("delete from user where username = '$user'");
 echo "Deleted user. ".href ("$current script?mode=browse", "Click to browse all
users.");
 else
 echo "Errors were detected:
 ";
 echo ul ($errors);
 echo href ("$current script?mode=browse", "Click to browse all users.");
```

```
// User wants to delete their account
 else if ($mode == "delete")
 $errors = "";
 // check to make sure not last user and that there is at least one admin
 $result = $dbinfo->query ("select username from user where username != '$user' AND
is admin = 1");
 if (mysql num rows (\$result) == 0)
 $errors = $errors.li ("The number of users left that are admins can't be zero.");
 mysql free result ($result):
 // check to make sure not participating in as buyer or seller in any auctions
 $result = $dbinfo->query ("select count(*) from item listing where seller = '$user' OR
buyer = 'suser''');
 list ($count) = mysql fetch row ($result);
 if (\$count != 0)
 $errors = $errors.li ("You should not have partipated in any auctions as seller or
buyer to be deleted.");
 mysql free result ($result);
 if (empty ($errors))
 $dbinfo->query ("delete from user activity where username = '$user'");
 $dbinfo->query ("delete from bids on where username = '$user'");
 $dbinfo->query ("delete from user where username = '$user'");
 $dbinfo->logout (true);
 echo "Deleted account. ".href ("index.php", "Click to go to the home page.");
 else
 echo "Errors were detected:
 ";
 echo ul ($errors);
 echo href ("$current script?mode=view", "Go to your account.");
 }
 // A user is saving updated registration information
 else if ($mode == "save")
 verify data ();
 if (!empty ($errors))
 {
 echo "Errors were detected. Please correct before continuing:

";
 echo ul ($errors);
 echo href ("$current script", "Go to your account.");
 else
 // We might be saving information for another user that isn't the current user
```

```
// $post_username will be the current user if not admin since it isn't editable.
 $admin user = $dbinfo->username ();
 if (empty ($is admin))
 \sin = 0;
 if ($dbinfo->debug ())
 cout ("Debug enabled.");
 cout ("update user set password = '$passwd1', is admin = $is admin,
realname = '$post realname', birth date = '$post birth date', shipping street = '$post street',
shipping city = '$post city',
shipping state = '$post state', shipping zip = $post zip, phone = '$post phone', email = '$post email',
card type = '$post card type'.
card number = $post card number, card expire = '$post card expire' where username =
'$post username'"):
 $dbinfo->query ("update user set password = '$passwd1', is admin = $is admin,
realname = '$post realname', birth date = '$post birth date', shipping street = '$post street',
shipping city = '$post city',
shipping state = '$post state', shipping zip = $post zip, phone = '$post phone', email = '$post email',
card type = '$post card type'.
card number = $post card number, card expire = '$post card expire' where username =
'$post username'");
 if ($post username != $admin user)
 {
 // save activity for both other user and current user
 $dbinfo->save activity for ($post username, "Admin '$admin user'
updated your registration information.");
 $dbinfo->save activity ("You updated the registration information of
'$post username'.");
 else
 // save current user activity
 $dbinfo->save activity ("You updated your registration information.");
 // display status
 cout ("Update successful.");
 echo href ("$current script?mode=view&username=$post username", "Click to
refresh");
 // browse a list of registered users
 else if ($mode == "browse" && $dbinfo->is admin ())
 echo h3 ("All Accounts");
 echo div ("scriptstatus");
 echo href ("$current script?mode=view", "View Your Account");
 end div ();
```

```
$curr user = $dbinfo->username ();
 $result = $dbinfo->query ("select u.username, is admin, realname, email, day, hour,
minute
from user u, user activity ua
where u.username = ua.username AND
u.username != '$curr user' AND
ua.activity = 'Registered' order by username");
 if ($result)
 to the stable = new table common t();
 $table->init ("tbl std");
 echo $table->table begin ():
 echo $table->table head begin ();
 echo $table->tr ($table->td span ("Registered users of iBay", "", 6));
 echo $table->tr ($table->td ("Username").
 $table->td ("Realname").
 $table->td ("Admin?").
 $table->td ("Email Address").
 $table->td ("Registration Time").
 $table->td ("Manage"));
 echo $table->table head end ();
 echo $table->table body begin ();
 while (list($username, $is admin, $name, $email, $day, $hour, $min) =
mysql fetch row ($result))
 echo $table->tr ($table->td ($username).
 $table->td ($name).
 $table->td (($is admin)? "Yes": "No").
 $table->td ($email).
 $table->td (format time ($day, $hour, $min)).
 $table->td (href ("$current script?
mode=view&username=$username", "Account").
 href ("profile.php?
mode=view&username=$username", "Profile").
 href ("$current script?
mode=delete&username=$username", "Delete").
 "
".
 href ("$current script?
mode=login as&username=$username", "Login As")));
 echo $table->table body end ();
 echo $table->table end ();
 mysql free result ($result);
 else if ($dbinfo->debug ())
 mysql free result ($result);
```

```
die (mysql error ());
 else
 mysql free result ($result);
 echo "Couldn't get user information.";
 return;
 }
 else
 // browse a registered user's registration information
 if ($dbinfo->is admin())
 echo div ("scriptstatus");
 echo href ("$current script?mode=browse", "Browse all");
 if ($user != $dbinfo->username ())
 echo " | ";
 echo href ("$current script?mode=view", "View Your Account");
 end div ();
 registration form ($user);
}
else // User is not logged in, display new registration page or save registration
 if ($mode == "savenew") // save registration for user
 {
 verify data ();
 if (!empty ($errors))
 echo "Errors were detected. Please correct before continuing:
';
 echo ul ($errors);
 echo href ("$current script", "Go to registration.");
 else
 // insert user into the database
 \sin admin = 0:
 $dbinfo->query ("insert into user values ('$post username', '$passwd1',
$is admin, '$post realname', '$post birth date', '$post street', '$post city', '$post state', $post zip,
'$post phone', '$post email', '$post card type', $post card number, '$post card expire',
'$post picture', '$post description')");
 if (!$dbinfo->user exists ($post username))
 cout ("Registration failed. ");
 cout (href (current script (), "Try again."));
```

```
table common.php
<?php
CMPS460 Database Project
Group I
April 20, 2009
Authors:
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 (dlg5367)
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 (sxv6633)
~~~ CERTIFICATION OF AUTHENTICITY ~~~
The code contained within this script is the combined work of the above mentioned authors.
*/
// Table related common functions/class (for styles)
class table common t
/*
       for (\$i = 0; \$i < mysql num fields (\$result); \$i++) */
              td (mysql field name ($result, $i)); */
/*
              for (\$i = 0; \$i < mysql num fields (\$result); \$i++) */
/*
/*
               { */
                     $field name = mysql field name ($result, $i); */
/*
                      td ($row[$field name]); */
/*
               } */
       var $main class;
       // initialize to use certain style
       function init ($main class )
              $this->main class = $main class;
              return $this->main class;
       // set to use certain style
       function set main class ($main class )
              return $this->init ($main class );
```

```
// get which style it is using
function get main class ()
      return $this->main class;
// begin the html table
function table begin ()
      return "main class\">\n";
// end the html table
function table end ()
      return "\n";
// begin the html table head
function table head begin ($custom class = "")
      if (empty ($custom class))
            return "<thead class=$this->main class>\n";
      else
            return "<thead class=$custom class>\n";
}
// end the html table head
function table head end ()
      return "</thead>\n";
// begin the html table body
function table body begin ($custom class = "")
      if (empty ($custom class))
            return "main class>\n";
      else
            return "\n";
// end the html table body
function table body end ()
      return "\n";
```

```
function tr ($s, $custom class = "")
            if (empty ($custom class))
                  return "\tmain class>\n\t$s\n\t\n";
            else
                  return "\t\n\t$\n\t\n";
      }
      // html table row begin
      function tr begin ($custom class = "")
            if (empty ($custom class))
                  return "\tmain class>\n";
           else
                  return "\t\n";
      }
      // html table row end
      function tr end ()
           return "\t\n";
      // html table data
      function td ($s, $custom class = "")
           return $this->td span ($s, $custom class);
      // html table data which spans several columns
      function td span ($s, $custom class = "", $span = 0, $align = "")
           if (!empty ($align))
                  $align = "align=$align";
           if (\$span == 0)
                  if (empty ($custom class))
                        return "\tmain class>\n\t$s\n\t\n";
                  else
                        return "\t\n\t$s\n\t\n";
            else
                  if (empty ($custom class))
                        return "\tmain class
colspan = span > \ln t s \ln t / td > n";
                  else
```

// html table row

```
return "\t\n\t$s\n\t\ n";  
}  
}  
}
```

```
viewtable.php
<?php
CMPS460 Database Project
Group I
April 20, 2009
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~~~ CERTIFICATION OF AUTHENTICITY ~~~
The code contained within this script is the combined work of the above mentioned authors.
 */
// Helpful page for admin to see the data in the db.
include once ("common.php");
delta = new delt
echo header ($dbinfo);
mode = get ("mode");
$name = get ("name");
$order = get("order");
desc = get("desc");
$current script = current script();
function display message ()
 message = get ("msg");
 echo "Messages:
";
 echo ul (li ($message));
}
if ($dbinfo->logged in () && $dbinfo->is admin ())
 if ($name == "reload") // reload the database - kind of hacked but oh well
 passthru ("/pkgs2/mysql/bin/mysql -h calvados.ucs.louisiana.edu -u cs4601i -pfoursixty
cs4601 i < ../data/db.dump.sql");
```

```
cout ("Done.");
 echo href ("index.php", "Refresh");
 else if ($name == "user") // view user table
 echo h3 ("User Data");
 echo div ("scriptstatus");
 echo href ("$current script?name=user&order=username&desc=0", "Sort Ascending
(Usernames)");
 echo " | ";
 echo href ("$current script?name=user&order=username&desc=1", "Sort Descending
(Usernames)");
 end div ();
 // Select the database
 if ($order == "username")
 if (\$desc == "0")
 $query="select * from $name order by username";
 else if (\$desc == "1")
 $query="select * from $name order by username desc";
 else if ($desc != "0"|"1")
 $query="select * from $name order by username";
 }
 else $query="select * from $name";
 // Run the query
 $results id = mysql_query($query);
 if($results id)
 // Get each row of the result, assign a variable to each
 // attribute in the row, and echo the data with labels
 while (list($username, $passwd, $is admin, $name, $dob, $street,
 $city, $state, $zip, $phone, $email, $cc, $ccn, $ccx,
 $picture, $descr)
 = mysql fetch row($results id))
 {
 // Start writing table to page
 to ten = t
 $table->init ("user database");
```

```
echo $table->table begin ();
 echo $table->table head begin ();
 echo $table->tr ($table->td span ("Registered User of iBay", "", 6));
 echo $table->tr end();
 echo $table->table head end ();
 echo $table->table body begin ();
 echo $table->tr ($table->td ("Username").
 $table->td ($username."
-".href ("profile.php?
mode=view&username=$username", "Profile")));
 echo $table->tr ($table->td ("Password").
 $table->td ($passwd));
 echo $table->tr ($table->td ("Admin?").
 $table->td ($is admin));
 echo $table->tr ($table->td ("Name").
 $table->td ($name));
 echo $table->tr ($table->td ("D.O.B.").
 $table->td ($dob));
 echo $table->tr ($table->td ("Street").
 $table->td ($street));
 echo $table->tr ($table->td ("City").
 $table->td ($city));
 echo $table->tr ($table->td ("State").
 $table->td ($state));
 echo $table->tr ($table->td ("Zip").
 $table->td ($zip));
 echo $table->tr ($table->td ("Phone").
 $table->td ($phone));
 echo $table->tr ($table->td ("Email").
 $table->td ($email));
 echo $table->tr ($table->td ("Credit Card").
 $table->td ($cc));
 echo $table->tr ($table->td ("CC Number").
 $table->td ($ccn));
 echo $table->tr ($table->td ("CC Exp.Date").
 $table->td ($ccx));
 echo $table->tr ($table->td ("Picture").
 $table->td (local img ($picture)));
 echo $table->tr ($table->td ("Description").
 $table->td ($descr));
 echo $table->table body end ();
 echo $table->table end ();
 echo "
>";
 else if ($dbinfo->debug ())
```

```
// Display the query and the MySQL error message
 print "

QUERY FAILED !!!

QUERY = $query

ERROR = ";
 die (mysql error());
 }
 else if ($name == "user activity") // view the activity table
 echo h3 ("User Activity Data");
 echo div ("scriptstatus");
 echo href ("$current script?name=user activity&order=username", "Sort by
username");
 echo " | ";
 echo href ("$current script?name=user activity&order=time", "Sort by time");
 end div ();
 // Select the database
 if (empty ($order) || $order == "time")
 $query="select * from $name order by day desc, hour desc, minute desc";
 else
 $query="select * from $name order by username";
 // Run the query
 $results id = mysql query($query);
 if($results id)
 // Get each row of the result, assign a variable to each
 // Start writing table to page
 to ten series the stable = new table common t();
 $table->init ("user activity database");
 echo $table->table begin ();
 echo $table->table head begin ();
 echo $table->tr ($table->td span ("Activity Log Entry", "", 3));
 echo $table->tr ($table->td ("Username").
 $table->td ("Time").
 $table->td ("Activity"));
 echo $table->table head end ();
 echo $table->table body begin ();
 // attribute in the row, and echo the data with labels
 while (list($username, $day, $hour, $minute, $activity)
 = mysql fetch row($results id))
 {
 echo $table->tr (
 $table->td (href ("profile.php?
mode=view&username=$username", $username)).
 $table->td (format time ($day, $hour, $minute)).
```

```
$table->td ($activity));
 echo $table->table_body_end ();
 else if ($dbinfo->debug ())
 // Display the query and the MySQL error message
 print "
>QUERY FAILED !!!
>QUERY = $query

ERROR = ";
 die (mysql error());
 else if ($name == "item listing") // view the item listing table
 echo h3 ("Item Listing Data");
 echo div ("scriptstatus");
 echo href ("$current script?name=item listing&order=seller&desc=0", "Sort by seller
(ascending)");
 echo " | ";
 echo href ("$current script?name=item listing&order=seller&desc=1", "Sort by seller
(descending)");
 end div ();
 // Select the database
 if ($order == "seller")
 if (\$desc == "0")
 $query="select * from $name order by seller";
 else if (\$desc == "1")
 $query="select * from $name order by seller desc";
 else if ($desc != "0"|"1")
 $query="select * from $name order by seller";
 else $query="select * from $name";
 // Run the query
 $results id = mysql query($query);
 if($results id)
```

```
// Get each row of the result, assign a variable to each
 // attribute in the row, and echo the data with labels
 while (list($title, $seller, $category, $end day, $end hour,
 $end min, $descr, $ship cost, $ship meth, $str price,
 $curr price, $pict, $buyer, $buy fdbk descr,
 $buy fdbk rate, $sell fdbk descr)
 = mysql fetch row($results id))
 {
 // Start writing table to page
 to the stable = to the stabl
 $table->init ("item listing database");
 echo $table->table begin ();
 echo $table->table head begin ();
 echo $table->tr ($table->td span ("Auction Item Listing", "", 6));
 echo $table->tr end ():
 echo $table->table head end ();
 echo $table->table body begin ();
 echo $table->tr ($table->td ("Title").
 $table->td (href ("itemlisting.php?
mode=view&title=$title&seller=$seller&category=$category&end day=$end day&end hour=$end h
our&end minute=$end min", $title)));
 echo $table->tr ($table->td ("Seller").
 $table->td (href ("profile.php?
mode=view&username=$seller", $seller)));
 echo $table->tr ($table->td ("Category").
 $table->td (href ("category.php?view=$category",
$category)));
 echo $table->tr ($table->td ("End Time").
 $table->td (format time ($end day, $end hour,
$end min)));
 echo $table->tr ($table->td ("Description").
 $table->td ($descr));
 echo $table->tr ($table->td ("Shipping Cost").
 $table->td ("\$$ship cost"));
 echo $table->tr ($table->td ("Shipping Method").
 $table->td ($ship meth));
 echo $table->tr ($table->td ("Starting Price").
 $table->td ("\$$str price"));
 echo $table->tr ($table->td ("Current Price").
 $table->td ("\$$curr price"));
 echo $table->tr ($table->td ("Picture").
 $table->td (local_img ($pict)));
 echo $table->tr ($table->td ("Buyer").
 $table->td ($buyer));
 if ($buy fdbk rate != -1)
 echo $table->tr ($table->td ("Buyer Feedback Description").
```

```
$table->td ($buy fdbk descr));
 echo $table->tr ($table->td ("Buyer Feedback Rating").
 $table->td ($buy fdbk rate));
 }
 else
 echo $table->tr ($table->td ("Buyer Feedback Description").
 $table->td ("None."));
 }
 if (!empty ($sell fdbk descr))
 echo $table->tr ($table->td ("Seller Feedback Description").
 $table->td ($sell fdbk descr));
 }
 else
 echo $table->tr ($table->td ("Seller Feedback Description").
 $table->td ("None."));
 echo $table->table body end ();
 echo $table->table_end ();
 echo "
>";
 else if ($dbinfo->debug ())
 // Display the query and the MySQL error message
 print "
br>QUERY FAILED !!!
br>QUERY = $query
br>

ERROR = ";
 die (mysql error());
}
else if ($name == "bids on") // view the bids on table
 if ($mode == "delete")
 $user = get ("username");
 $title = get ("title");
 $seller = get ("seller");
 $category = get ("category");
 \ensuremath{\$}end day = get ("end day");
 $end hour = get ("end hour");
 $end minute = get ("end minute");
 bid day = get ("bid day");
 $bid hour = get ("bid hour");
 $bid minute = get ("bid minute");
```

```
$dbinfo->query ("delete from bids on
where username = '$user'
AND item title = '$title'
AND item seller = '$seller'
AND item category = '$category'
AND item_end day = $end day
AND item end hour = $end hour
AND item end minute = $end minute
AND bid day = \$bid day
AND bid hour = $bid hour
AND bid minute = $bid minute");
 echo h3 ("Bidding Data");
 echo div ("scriptstatus");
 echo href ("$current script?name=bids on&order=username&desc=0", "Sort by
username (ascending)");
 echo " | ";
 echo href ("$current script?name=bids on&order=username&desc=1", "Sort by
username (descending)");
 end div();
 // Select the database
 if ($order == "username")
 if (\$desc == "0")
 {
 $query="select * from $name order by username";
 else if (\$desc == "1")
 $query="select * from $name order by username desc";
 else if ($desc != "0"|"1")
 $query="select * from $name order by username";
 else $query="select * from $name";
 // Run the query
 $results id = mysql query($query);
 if($results id)
 to the stable = new table common t();
 $table->init ("bidding database");
```

```
echo $table->table begin ();
 echo $table->table head begin ();
 echo $table->tr ($table->td span ("Bid Information", "", 8));
 echo $table->tr ($table->td ("Bidder").
 $table->td ("Title / Category").
 $table->td ("Seller").
 $table->td ("End Time / Bid Time").
 $table->td ("Amount").
 $table->td ("Notify").
 $table->td ("Modify"));
 echo $table->table head end ();
 echo $table->table body begin ();
 // Get each row of the result, assign a variable to each
 // attribute in the row, and echo the data with labels
 while (list($username, $title, $seller, $category, $end day,
 $end hour, $end min, $bid day, $bid hour, $bid min,
 $bid amt, $disp notif)
 = mysql fetch row($results id))
 {
 if ($disp_notif!="n")
 $can delete = $table->td (href ("$current script?")
name=$name&order=$order&desc=$desc&mode=delete&username=$username&title=$title&seller=$
seller&category=$category&end day=$end day&end hour=$end hour&end minute=$end min&bid
day=$bid day&bid hour=$bid hour&bid minute=$bid min", "X"));
 else
 can delete = table - td ("-");
 // Start writing table to page
 echo $table->tr ($table->td (href ("profile.php?
mode=view&username=$username", $dbinfo->get realname ($username))).
 $table->td (href ("itemlisting.php?
mode=view&title=$title&seller=$seller&category=$category&end day=$end day&end hour=$end h
our&end minute=$end min", $title).
 "
(".
 href ("category.php?view=$category",
$category).")").
 $table->td (href ("profile.php?
mode=view&username=$seller", $dbinfo->get realname ($seller))).
 $table->td (format time ($end day, $end hour,
$end min).
 "/
"
 format time ($bid day, $bid hour, $bid min)).
 $table->td ("\$$bid amt").
 $table->td ($disp_notif).
```

```
$can_delete);
 echo $table->table body end ();
 echo $table->table_end ();
 echo "
>";
 else if ($dbinfo->debug ())
 // Display the query and the MySQL error message
 print "
br>
QUERY FAILED !!!
br>
QUERY = $query
br>

ERROR = ";
 die (mysql_error());
 else
 echo "Errors were detected:
 ";
 echo ul (li ("Invalid table name '$name'."));
 cout ("Back to your ".href ("index.php", "home").".");
 }
else
 redirect ("index.php");
echo footer ($dbinfo);
?>
```

```
drop table if exists bids on;
drop table if exists item listing;
drop table if exists user activity;
drop table if exists user;
create table user(
 username
 varchar(50),
 varchar(50),
 password
 is admin
 boolean,
 realname
 varchar(100),
 birth date varchar(10),
 shipping street
 varchar(100),
 shipping city
 varchar(50),
 shipping state
 varchar(25),
 shipping zip
 varchar(10),
 phone
 varchar(12),
 email
 varchar(50),
 card type varchar(20),
 card number
 varchar(16),
 card expire
 varchar(5),
 picture
 varchar(100),
 description
 varchar(250),
 primary key (username)
);
create table user activity(
 varchar(50),
 username
 day
 int(5),
 hour
 int(2),
 minute
 int(2),
 activity
 varchar(250),
 primary key (username, day, hour, minute),
 foreign key (username) references user (username)
);
create table item listing(
 title
 varchar(50),
 seller
 varchar(50),
 category
 varchar(30),
 end day
 int(5),
 end hour
 int(2),
 end minute
 int(2),
 description
 varchar(250),
 shipping cost
 float(7,2),
 shipping method varchar(100),
 starting price
 float(7,2),
 current price
 float(7,2),
 picture
 varchar(100),
```

```
buyer
 varchar(50),
 buyerfeedbackforseller description
 varchar(250),
 buyerfeedbackforseller rating
 int(2),
 sellerfeedbackforbuyer description
 varchar(250),
 primary key (title, seller, category, end day, end hour, end minute),
 foreign key (seller) references user (username)
);
create table bids on(
 username
 varchar(50),
 item title varchar(50),
 item seller
 varchar(50),
 item category
 varchar(30),
 item end day
 int(5),
 item end hour
 int(2),
 item end minute int(2),
 bid day
 int(5),
 bid hour
 int(2),
 bid minute
 int(2),
 bid amount
 float(7,2),
 display notification
 char(1),
 primary key (username, item title, item seller, item category,
 item end day, item end hour, item end minute,
 bid day, bid hour, bid minute),
 foreign key (username) references user (username),
 foreign key (item title) references item listing (title),
 foreign key (item seller) references item listing (seller),
 foreign key (item category) references item listing (category),
 foreign key (item end day) references item listing (end day),
 foreign key (item end hour) references item listing (end hour),
 foreign key (item end minute) references item listing (end minute)
);
```