LOGIN

* User enters *username* (‘$UNAME’), *password* (‘$PWD’) input fields
* If data validation is successful for both username and password input fields, then:
  + When ***Login*** button is clicked
    - If User record is found, but User.password != ‘$PWD’:
      * Go back to **Login** form with incorrect password error message
    - Else
      * Store the login information in the session variable ‘$USERID’
      * Redirect to **Menu** form
  + When ***Register*** button is clicked
    - Redirect to **Registration** page

MENU

* If User = ‘$ADMINUSER’:
  + Show *position* field along with **“View Category Report”**, **“View User Report”, “Search for Items”**, **“List Items for Sale”**, **“View Auction Results”**, and **“Logout”** tabs
* Else
  + Show **“Search for Items”**, **“List Items for Sale”**, **“View Auction Results”**, and **“Logout”** tabs
* When:
  + ***View Category Report*** button is clicked, redirect to the **View Category Report** task
  + ***View User Report*** button is clicked, redirect to the **View User Report** task
  + ***Search for Items*** button is clicked, redirect to the **Search for Items** task
  + ***List Items for Sale*** button is clicked, redirect to the **List Items for Sale** task
  + ***View Auction Results*** button is clicked, redirect to the **View Auction Results** task
  + ***Logout*** button is clicked, invalidate the login session and go back to the **Login** form.

REGISTRATION

* User enters *First Name*(‘$FNAME’), *Last Name*(‘$LNAME’), *username*(‘$UNAME’), *password*(‘$PWD’), and *confirm password*(‘$TEMP\_PWD’)
* When ***Register*** button is clicked,
  + If all fields != NULL
    - If (‘$UNAME’) record is not found
      * If *password*(‘$PWD’)== *confirm password*(‘$TEMP\_PWD’)
        + User will be created and will be redirected to **Menu** page
      * Else print “passwords must match”
    - Else print “username is already in use, please choose another username
  + Else print “please make sure that all fields have been filled out accurately”
* When ***Cancel*** button is clicked,
  + Redirect to **Login** page

LIST ITEMS FOR SALE

* User clicked on ***List Items for Sale*** button from the **Menu** :
* User enters *Item Name*, *Description* fields
* User clicks *Category* list and selects only one of the following
  + Art
  + Books
  + Electronics
  + Home and Garden
  + Sporting Goods
  + Toys
  + Other
* User clicks *Condition* list and selects only one of the following
  + New
  + Very Good
  + Good
  + Fair
  + Poor
* User enters only numbers in the *Start Auction Bidding*, *Minimum Sale Price* fields
* User clicks *Auction Ends In* list and selects only one of the following
  + 1 day
  + 3 days
  + 5 days
  + 7 days
* User may or may not enter the *Get it Now Price* field which accepts only numbers
* User chooses whether or not to check the *Returns Accepted* checkbox
* When ***List My Item*** button is clicked
  + If all fields != NULL && data entered is valid
    - **Generate** Unique && NOT NULL ItemID for entered *Item Name*
    - Perform INSERT query on the entered data
    - Redirect to **Menu** page
  + Else
    - NO database action is taken
    - Print “Please enter valid data and make sure all required fields are not empty”
* When ***Cancel***button is clicked
  + Redirect to **Menu** page

SEARCH FOR ITEMS

* User clicked on ***Search for items*** button from the **Menu**
* User can enter *Keyword* field
* User can select the *Category* field from the dropdown list
* User can input the *Minimum Price/Maximum Price* field using only numbers
* User can select the *Condition* field
* User clicks on ***Search*** button
  + If at-least 1 field != NULL 
    - Execute a SELECT query from the available data which matches ALL the criteria entered
  + Else
    - Execute query “SELECT \* ….”
  + Opens up the **Search Results** page and user can see items matching with entered criteria
    - User clicks on *Item Name*
      * Redirect to **Item Description** page
    - User clicks on ***Back to Search***
      * Redirect to the **Search for Items** page
* User clicks on ***Cancel*** button
  + Redirects to the **Menu** page

ITEM DESCRIPTION

* User clicked on *Item Name* in **Search Results** page
* Lists all information fields about item including the auto generated *ItemID*
* User clicks on ***View Ratings*** link
  + Redirects to **View Ratings** page
* If user is listing\_user
  + User clicks on ***Edit Description***
    - Can edit description
* User clicks on ***Get It Now*** (if button has been enabled by *Get It Now* field in **List Items for Sale** page)
  + Item has been purchased
  + Auction has ended
  + Sets the user as Winner
* User can see Latest Bids – showing the latest 4 bids with the highest (and most recent) on top.
* User enters *Your Bid*
  + If amount entered is greater than last bid amount
    - No action
  + If amount entered is greater than ***Get It Now*** price
    - Print “You can choose to get the item now without bidding for the price shown in Get It Now”
  + Else
    - Print “your bid must be at least $1 higher than the last bid”
* User clicks on ***Bid On This Item***
  + User’s bid will be stored and added to the latest bids
* User clicks on ***Cancel***
  + Redirects to **Search Results**

VIEW RATINGS

* User clicked on ***View Ratings*** in **Item Description** page
* Lists ItemId, Item Name and Average Rating for Item.
* All ratings are listed as most recent
* If user is rating­\_user
  + User clicks on ***Delete My Rating***
  + User’s rating is deleted and Average Rating is recalculated
* User can rate with number of stars
* User can add comments in textbox
* User clicks on ***Rate this Item***
  + Rating is submitted
  + Average Rating is recalculated
  + Redirects to **Item Description** page
* User clicks on Cancel
  + No change
  + Redirects to **Item Description** page

AUCTION RESULTS

* User clicked on ***View Auction Results*** in **Menu** page
* List *ItemID*, *Item Name*, Sale Price, Winner and Auction Ended fields in the screen
* If Sale Price && Winner == NULL
  + The item *Item Name*, *ItemID* did not sell
* User clicks on *Item Name*
  + Redirect to **Item Description**
* User clicks on ***Done***
  + Redirects to **Menu** page

ADMIN REPORTS

* If User = ‘$ADMINUSER’:
  + User’s **Menu** page has **“View Category Report”**, **“View User Report”** tabs
  + User clicks on ***View Category Report*** button
    - Redirects to **View Category Report** \*\*\*\*\*include separate abstract codes for this or keep it one code for admin reports???\*\*\*\*\*\*\*\*
      * User clicked on ***View Category Report*** button from **Admin Reports** page
        + List out all *Categories* of items which were already sold AND items which are still listed for sale

For each *Category* list out Total Items, and the Min Price, Max Price, Average Price obtained from the ***Get It Now*** price in **List Items for Sale**

* + - * User clicks on ***Done*** button
        + Redirects to the **Menu** page
  + User clicks on ***View User Report*** button
    - Redirects to **View User Report**
      * User clicked on ***View User Report*** button from **Admin Reports** page
        + List out all users based on *username*

Include count of : items listed for sale, items sold, items purchased, items rated

Sorted on number of items listed for sale in descending order

* + - * User clicks ***Done*** button
        + Redirects to **Menu** page