README for BA Database Project

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Hello Professor,

The README is in place so that you can easily verify that the contents of the rubric are fulfilled by the web site. Snippets of the text from all bullets in the project rubric are in place throughout for reference, to make verifying functionality of the site relatively painless.

* Initialize Database Tables, Views, and Random Data in SQL
* Run **Initialization.sql,** this is where our database code exists.
* Notes on random data:
* All 10 people in the random data are initialized like *user1, user2,* etc. with password of *pass1, pass2*, etc.
* All 100 items in the random data are initialized with a +30 second offset from the current system time. So, “Item 1” expires 30 seconds after creation, “Item 2” 60 seconds after creation, etc. Since a random user is selected as the owner of the item every time, if the randomization is assumed truly random, every user has an “average” of 10 items. This “average” rule applies to person bids as well.
* Accessing the Web pages
* **Welcome Page**: This can be found by starting the web project **GMnyakiAuctionWebsite.sln**  in Visual Studio, and opening the **HomeView.aspx.** This page presents several options, among which are *Register* and *Log In*.
* **Login Page:** From **HomeView.aspx,** click **Login** in the upper right hand corner. You can enter a user name and password, then click **Login** to login as that user. The user must exist in the system and the password must be correct. The sample data in the database has users such as *user1, user2, user3*, etc. with passwords as *pass1, pass2, pass3,* etc. You will be re-directed to **HomeView.aspx.**
* **Register Page:** From **HomeView.aspx**, click **Register** in the upper right hand corner. You can enter new user information here, and click **Register** to register the user in the database. The username must not exist in the system, and the email should contain “@” sign, or the system will not allow the registration and will give you a warning on the form. Users have a *name, contact information, and credit card information. Contact information consists of an address, an email, and a telephone. An address consists of a street, city, state, and zip code. Credit card information consists of owner name, card number, and expiration date.* You will be re-directed to **HomeView.aspx.**
* **Home Page:** This is the same as **Welcome Page** in our implementation of BA. The link to “**List of Items”** is visible under **“Buyer Options”**. After you log in as user of BA, the **“Seller Options”** will be visible, and under that, **“Add an Item to Sell”** will appear. We found it preferable to have **“Search for an Item”** on the **ItemListView.aspx**, allowing you to filter the full list of items instead of redirecting to a new page.
* Users can access the list of items by clicking **List of Items** under **“Buyer Options”**. Here they can *search for an item. The application will search through item names for the search phrase.* Once you’ve clicked an item onthe item list, you can see the *Highest Bid* for the item, and the *Expiration Date* of the sale. *Buyers can bid on their items* here. There is an input where users can *enter their bid*. If the user is logged in, clicking the *Submit Bid* button will submit the bid to the database. *Once a bid is made, buyers are accountable for their bid. If they change their mind, all they can do is to update their bid with a price of zero. Of course, they can do that before the auction expires. After an auction expires, the buyer with the highest bid is the winner.*
* Users who are logged in have access to **“Seller Options”** on the **Home Page / Welcome Page**. Under that, they will find **“Add an Item to Sell”**, which will bring them to **AddItemView.aspx,** where *each seller can sell items***.** Users can enter item details including *initial price*, *expiration date*, etc. Each item has a *name, condition, an initial price, a description, quantity, one or more pictures, and an owner. The condition could be New, Refurbished, or Explained. If the condition of an item is set to Explained, the seller should explain about the item condition in the item description.* The *owner* is grabbed from the users session data automatically. Once the user clicks the **Add Item** button, the item will be added to the database. The auction for the item will not begin until the *bidding starttime* has past, and users will not be able to bid on the item once the *bidding endtime* has past. The *start time and end time include the data as well. Sellers are owners of their item.*
* On the **Home Page / Welcome Page,** BA Statistics are listed under the panel **BA Statistics.** The statistics are:
* *The most active seller (the one who has offered the most number of items)*
* *The most active buyer (the one who has bought the most number of items)*
* *The most popular seller (the one who sold the most number of items)*
* *The most expensive item sold ever*
* *The most expensive item available*
* *The cheapest item sold ever*
* *The cheapest item available*