WebAuctionApp

Application User Guide

Submitted By: -
Ratan Gupta
rgupt21@umd.edu
UID: 118195773

Contents

List of Figures

Installation Guide

1. Clone the repository from code.umd.edu. This can be done by following either of the 2 options below –
   a. SSH - git@code.umd.edu:rgupt21/ENPM809WFall2022Project-rgupt21.git
   b. HHTPS - https://code.umd.edu/rgupt21/ENPM809WFall2022Project-rgupt21.git
2. Installing and using Visual Studio –
   a. Install Visual Studio to access the source code - https://visualstudio.microsoft.com/downloads/
   b. Open the project by opening the .sln file in the project using Visual Studio.
   c. To run the project, first delete the bin and obj folders if they exist in the project and then build a clean solution using Visual Studio. Then, run the IIS server.
3. Installing and using DBeaver –
   a. Install DBeaver to access the database - https://dbeaver.io/download/
   b. Use DBeaver to open the .db file and connect to the database.

Application Users

1. **Buyer** – A user can register as a buyer on the web application. As a buyer, a user can view all auctions on the platform, bid on active auctions, update their bids as they see fit (following the general rules of an auction), and manage their accounts. Buyers can view all the bids they have placed on all auctions in the "My Bids" section.
While creating or updating a bid on any auction, buyers will only be allowed to bid an amount that falls in a range specific to that auction. All new bids must be higher than the sum of the current bid and the minimum bid increment (defined by the seller), and the

end bid (defined by the seller). Any amount which fails to fall into the range will not be accepted.

Bidding on closed auctions is disabled, and there is no functionality provided as such. An auction is automatically closed when the local time exceeds the auction end time specified by the seller at the time the auction was created.

When an auction is closed, an automated email is sent to the highest bidder (by default the current bidder) stating that they have won the auction. The email contains the seller's email address and states that the seller will contact the buyer to discuss payment method and product delivery.

2. **Seller** – A user can register as a seller on the web application. As a seller, a user can create auctions and specify details such as product name, product description, product image, starting bid, ending bid, minimum bid increment, and auction end date and time. Sellers can edit their active auctions as they see fit. Editing a closed auction is disabled and no functionality is provided as such.

   Sellers can only view the auctions they have created, there is no functionality provided to view auctions created by other sellers.

   Once an auction is closed, an automated email is sent to the seller specifying the buyer's email address and stating that they must contact the buyer to discuss payment method and product delivery.

3. **Admin** – The admin is automatically created when the project is run (with default credentials specified in the appsettings.json file). If an admin exists in the database when the project is run, then no admin will be created. The admin can delete buyers and sellers. If an admin deletes a buyer, all the bids that buyer has made will be deleted, and finally the buyer will be deleted. All the relevant bid and buyer details will be removed from the database.

   If the admin deletes a seller, all the bids that are made on the auctions the seller has created will be deleted, then all the auctions created by the seller will be deleted, and finally that seller will be deleted. All the relevant bid, auction, and seller details will be removed from the database.

Use Case Walkthrough

Landing Page

Unauthenticated users land on this page. This page tells users to either sign-up or login to continue using the web application.
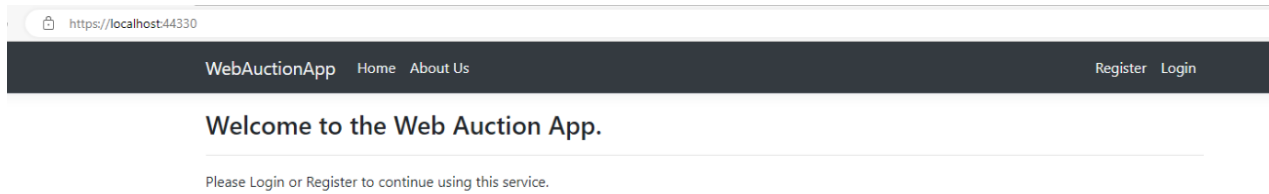
Figure 1: Landing Page

Registration Page

Users can register here as either buyers or sellers. Once a user clicks on the register button, a verification link is sent to the user's email address. The user must open the link sent to their email address to be verified. Only then will a user be allowed to login.

Figure 2: Registration Page

Login Page

Users can login here. They must enter the credentials they specified during the registration phase.

Figure 3: Login Page

Buyer Use Cases

Buyer – Home

Buyer's homepage displays auctions in an order from newest to older auctions. The active auctions are displayed first (they have a green border), and the closed auctions are displayed further down (they have a red border). From here, a buyer can view an auction, create a bid on an auction, update an already created bid on an auction, and view all the bids they've placed on auctions.

Figure 4: Buyer – Home Page

Buyer – View Auction

A buyer can view an auction by clicking on the "View" button of an auction.
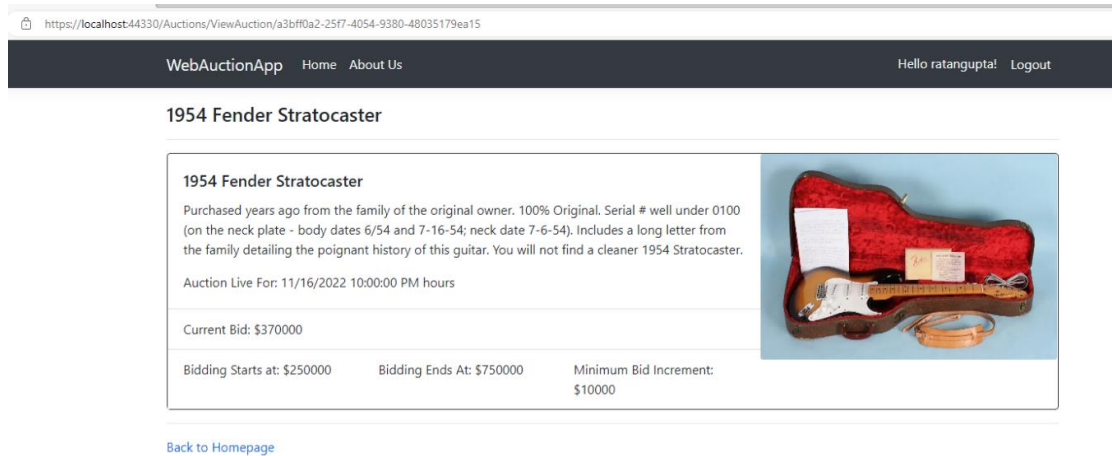
Figure 5: Buyer – View Auction Page

Buyer – Create Bid

A buyer can bid on an auction by clicking the "Create Bid" button on an auction. A buyer can only enter an amount which falls in a specified range by the application. The bid amount must be between the sum of the current bid and minimum bid amount, and the end bid amount. Failing to enter an acceptable amount will result in an error message displayed to the buyer.
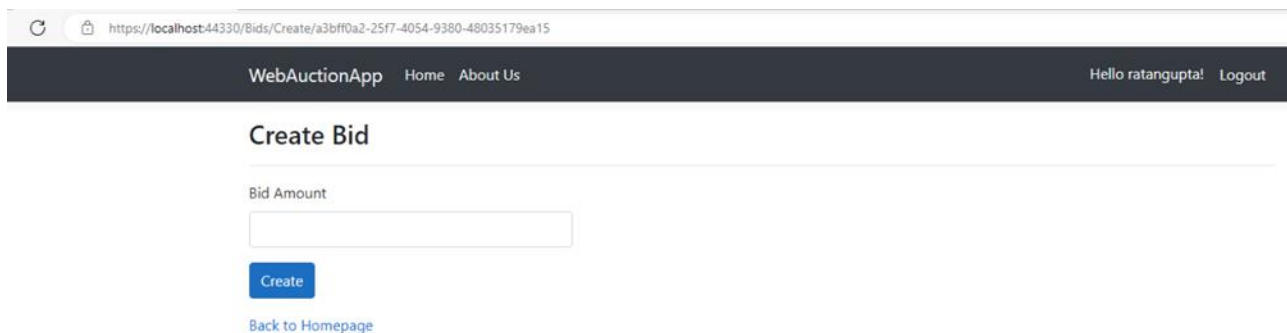
Figure 6: Buyer – Create Bid Page

Buyer – Update Bid

A buyer can update any bids they've already placed on an auction. An error message will be displayed if a buyer attempts to update a bid on an auction without creating a bid on that auction. Just how it was while creating a bid, only an amount which falls within a specified range will be accepted.

Figure 7: Buyer – Update Bid Page

Buyer – My Bids

A buyer can view all the auctions on which they've placed bids. This page will display auction details as well as the buyer's current bid.

Figure 8: Buyer – My Bids Page

Buyer – Manage Account

A buyer can manage their account by clicking on the "Hello <username>!" button on the top right corner of the webpage. Here they can update their password, download their user data, etc.
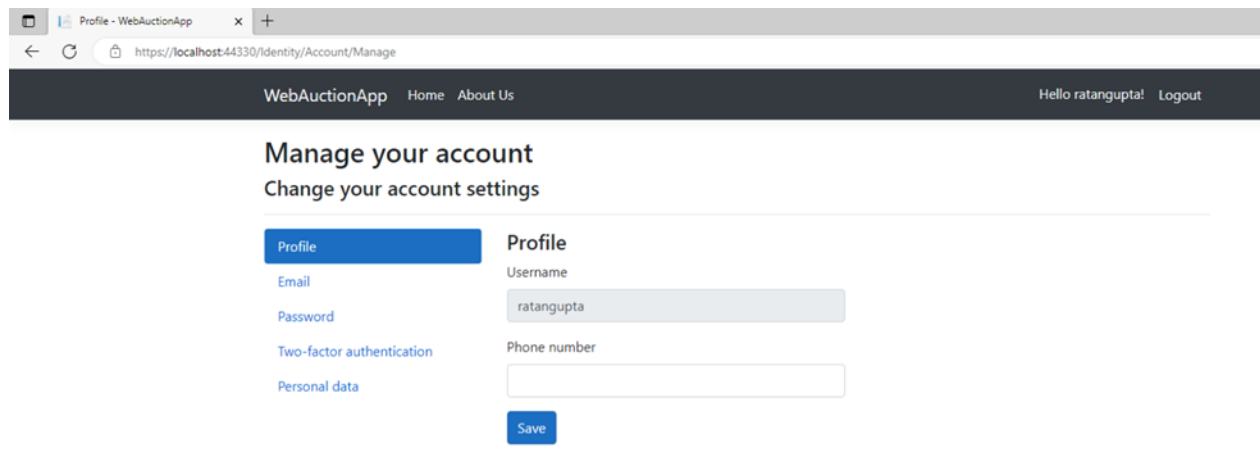
Figure 9: Buyer – Manage Account Page

Seller Use Cases

Seller – Home

The seller's homepage displays all the auctions they've created from new to old. Active auctions are displayed on the top (with green borders) and closed auctions are further down (with red borders). Every auction card displays relevant auction information such as the product name, product description, product image, validity date and time, starting bid, ending bid, minimum bid increment, current bid, and current bidder.
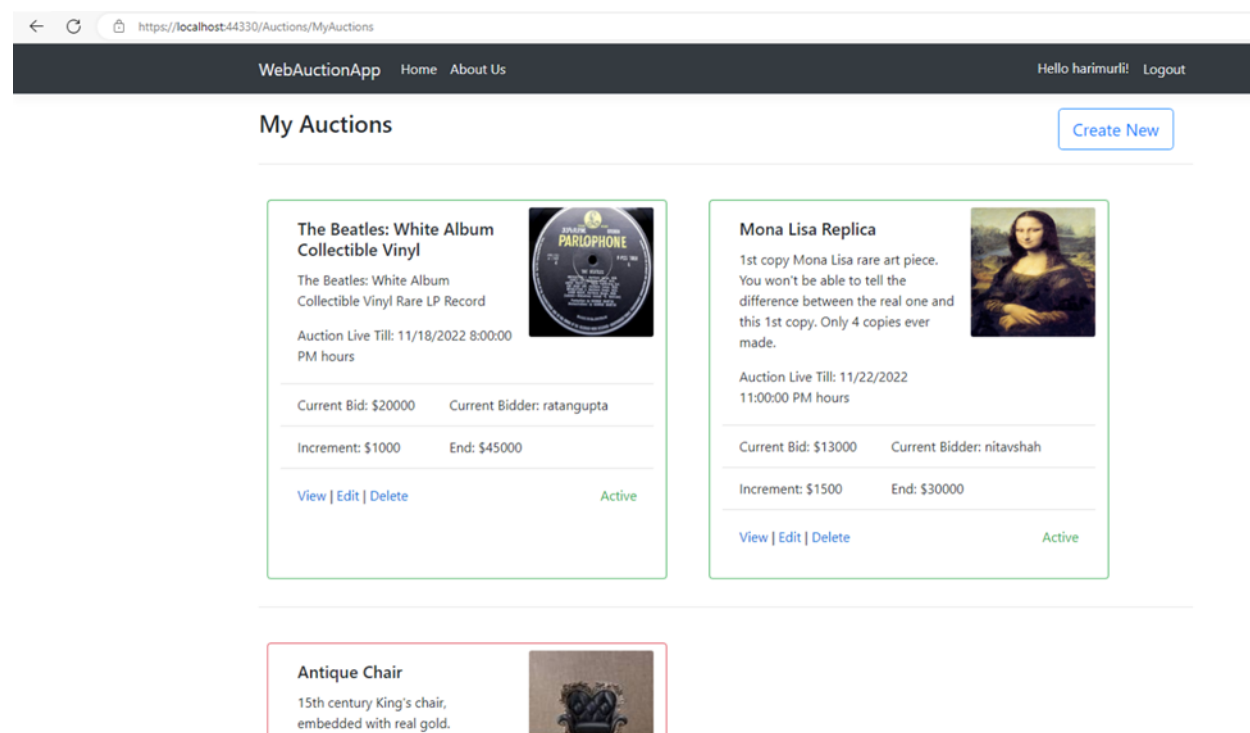

Figure 10: Seller – Home Page

Seller – Create Auction

A seller can create an auction by clicking on the "Create New" button on the top right corner of the home page. Information such as product name, product description, product image, validity date and time, starting bid, ending bid, and minimum bid increment must be entered here.

Figure 11: Seller – Create Auction Page

Seller – View Auction

A seller can view an auction by clicking on the "View" button on an auction card. The page displays auction details.

Figure 12: Seller – View Auction Page

Seller – Edit Auction

A seller can update an auction by clicking on the "Edit" button on an auction card. The same fields which were present at the time of creating an auction are present here and can be edited.

Figure 13: Seller – Edit Auction Page

Seller – Delete Auction

A seller can delete an auction by clicking on the "Delete" button on an auction card. This page displays auction details and there is a delete button at the bottom to delete the auction.
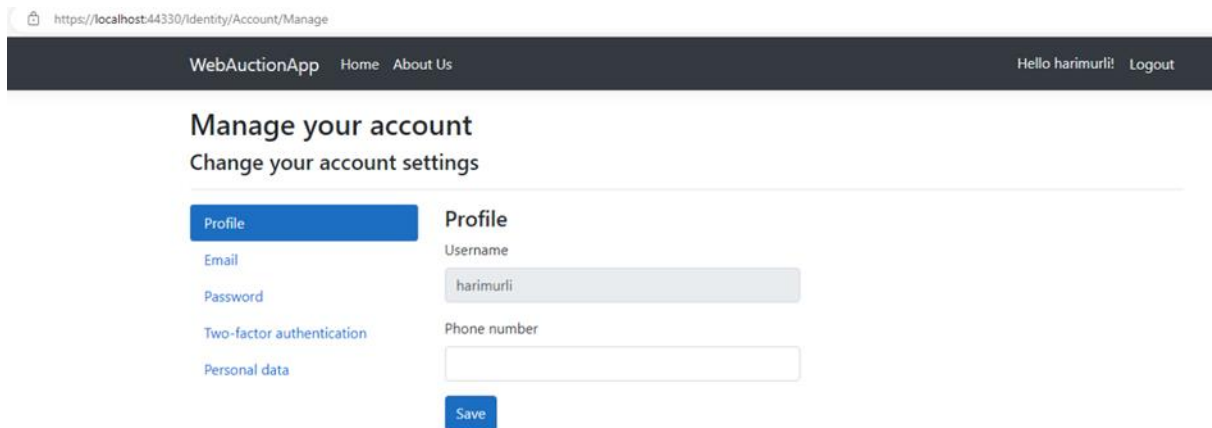

Figure 14: Seller – Delete Auction Page

Seller – Manage Account

A seller can manage their account by clicking on the "Hello <username>!" button on the top right corner of the webpage. Here they can update their password, download their user data, etc.
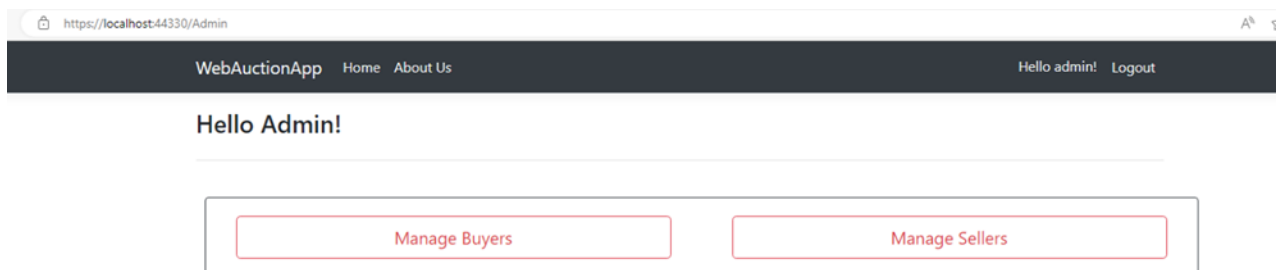

Figure 15: Seller – Manage Account Page

Admin Use Cases

Admin – Home

The admin can manage buyers and sellers and manage their account through their home page.

Figure 16: Admin – Home Page

Admin – Manage Buyers

An admin can delete any buyer they want to. Deleting a buyer will delete all bids that buyer has placed on any and every auction.
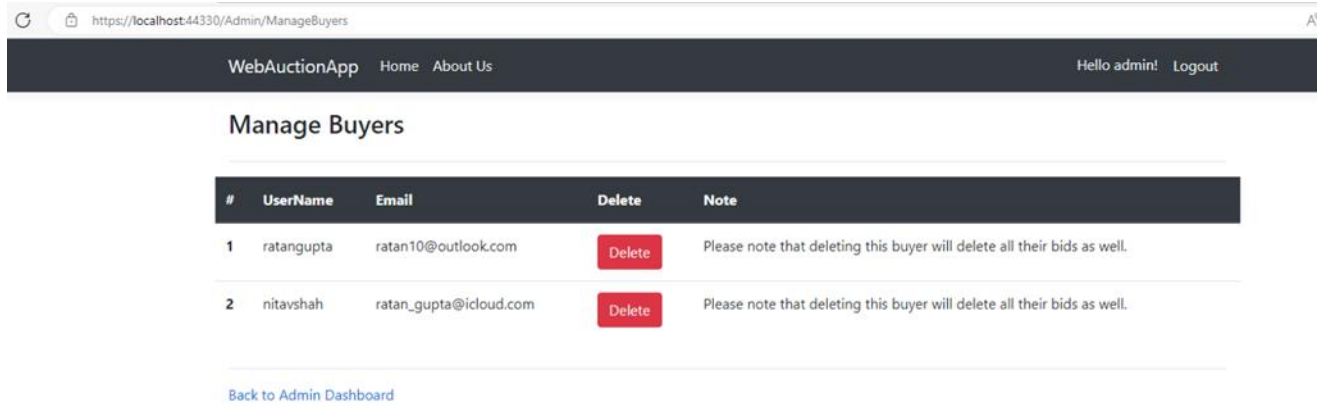
Figure 17: Admin – Manage Buyers Page

Admin – Manage Sellers

The admin can delete any seller they want to. Deleting a seller will first delete all the bids on all the auction created by the seller. Then all the auctions created by the seller will be deleted, and finally the seller will be deleted.
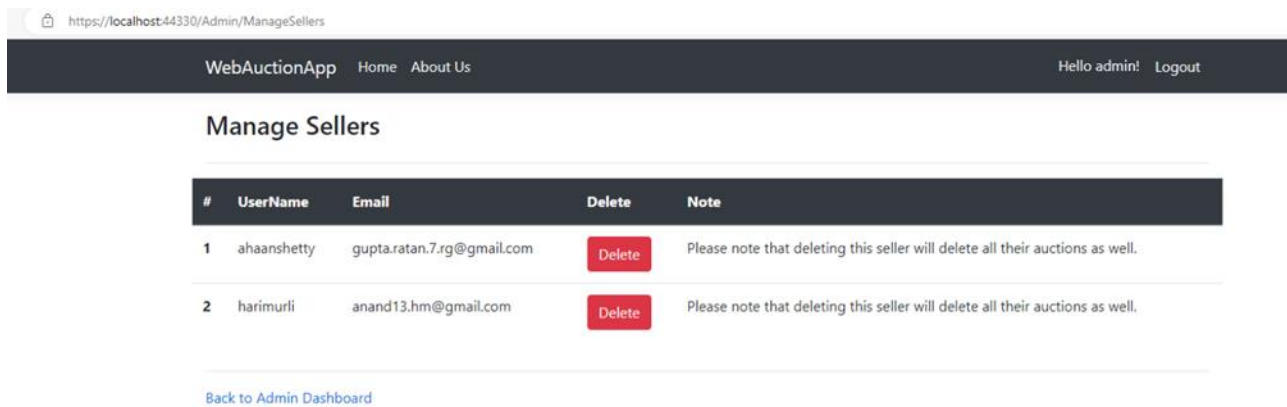

Figure 18: Admin – Manage Sellers Page