

# WebAuctionApp

## Application User Guide

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## Installation Guide

- Clone the repository from code.umd.edu. This can be done by following either of the 2 options below –
  - SSH - [git@code.umd.edu:rgupt21/ENPM809WFall2022Project-rgupt21.git](mailto:git@code.umd.edu:rgupt21/ENPM809WFall2022Project-rgupt21.git)
  - HTTPS - <https://code.umd.edu/rgupt21/ENPM809WFall2022Project-rgupt21.git>
- Installing and using Visual Studio –
  - Install Visual Studio to access the source code - <https://visualstudio.microsoft.com/downloads/>
  - Open the project by opening the .sln file in the project using Visual Studio.
  - 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.
- Installing and using DBeaver –
  - Install DBeaver to access the database - <https://dbeaver.io/download/>
  - Use DBeaver to open the .db file and connect to the database.

## Application Users

- 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.

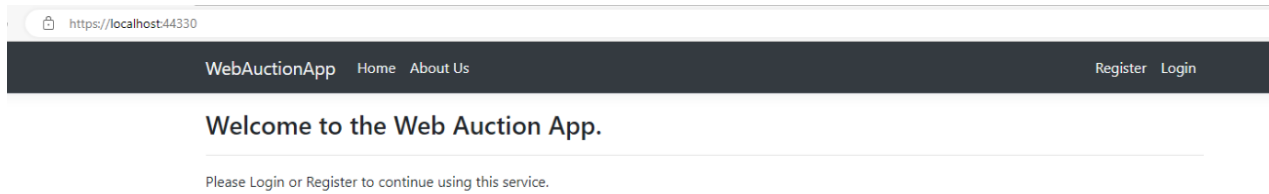


Figure 1: Landing Page

## 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.

A screenshot of the 'Register' page in the WebAuctionApp. The browser's address bar shows 'https://localhost:44330/identity/Account/Register'. The page has a dark header with 'WebAuctionApp' on the left and 'Home' and 'About Us' in the center. On the right side of the header are links for 'Register' and 'Login'. The main content area is titled 'Register' with the subtitle 'Create a new account.' Below this are several input fields: 'First Name' (containing 'Ratan'), 'Last Name' (containing 'Gupta'), 'Email' (containing 'ratan10@outlook.com'), 'Username' (containing 'ratangupta'), 'Password' (masked with dots), and 'Confirm password' (masked with dots). At the bottom, there are radio buttons for 'Roles' with 'Buyer' selected and 'Seller' unselected. A blue 'Register' button is at the very bottom.

Figure 2: Registration Page

## Login Page

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

Log in - WebAuctionApp

https://localhost:44330/identity/Account/Login

WebAuctionApp Home About Us Register Login

## Log in

Username

ratangupta

Password

Remember me?

Log in

[Forgot your password?](#)

[Register as a new user](#)

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.

https://localhost:44330/Auctions

WebAuctionApp Home About Us Hello ratangupta! Logout

## Available Auctions

[My Bids](#)

### 1954 Fender Stratocaster

Purchased years ago from the family of the original owner. 100% Original. Serial # well under 0100 (on the neck plate - body dates 6/54 and 7-16-54; neck date 7-6-54). Includes a long letter from the family detailing the poignant history of this guitar. You will not find a cleaner 1954 Stratocaster.

Auction Live Till: 11/16/2022 10:00:00 PM hours

Current Bid: \$370000 Min. Increment: \$10000

Started At: \$250000 Ends At: \$750000

[View](#) | [Create Bid](#) | [Update Bid](#) Active

### Itachi Uchiha Collectible

18cm Itachi Uchiha Shippuden Anbu Anime Naruto Action Figures USA 7" PVC

Auction Live Till: 11/20/2022 9:30:00 PM hours

Current Bid: \$100 Min. Increment: \$20

Started At: \$50 Ends At: \$150

[View](#) | [Create Bid](#) | [Update Bid](#) Active

### The Beatles: White Album

...

### Mona Lisa Replica

...

Figure 4: Buyer – Home Page

### Buyer – View Auction

A buyer can view an auction by clicking on the “View” button of an auction.

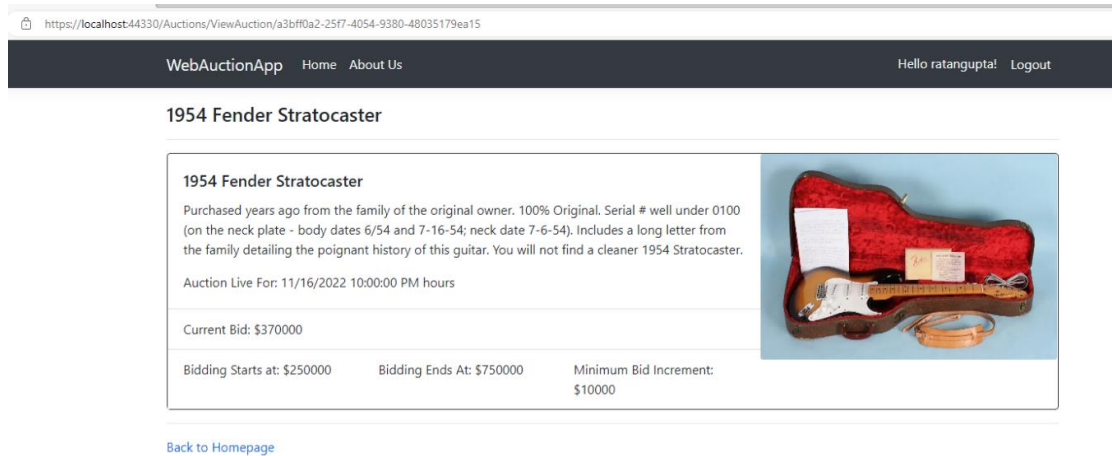


Figure 5: Buyer – View Auction Page

### 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.

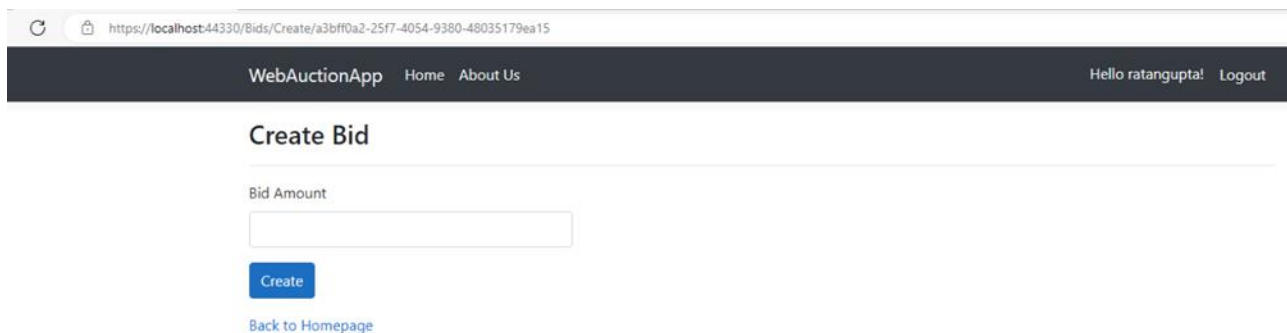


Figure 6: Buyer – Create Bid Page

### 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.

WebAuctionApp Home About Us Hello ratangupta! Logout

## Edit Bid

Bid Amount

Save

[Back to Homepage](#)

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.

WebAuctionApp Home About Us Hello ratangupta! Logout


## My Bids

### 1954 Fender Stratocaster

Purchased years ago from the family of the original owner. 100% Original. Serial # well under 0100 (on the neck plate - body dates 6/54 and 7-16-54; neck date 7-6-54). Includes a long letter from the family detailing the poignant history of this guitar. You will not find a cleaner 1954 Stratocaster.

My Bid: \$370000

Bidding Ends At: \$750000 Increment: \$10000




### Itachi Uchiha Collectible

18cm Itachi Uchiha Shippuden Anbu Anime Naruto Action Figures USA 7" PVC

My Bid: \$75

Bidding Ends At: \$150 Increment: \$20



### The Beatles: White Album Collectible Vinyl

The Beatles: White Album Collectible Vinyl Rare LP Record

My Bid: \$20000




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.

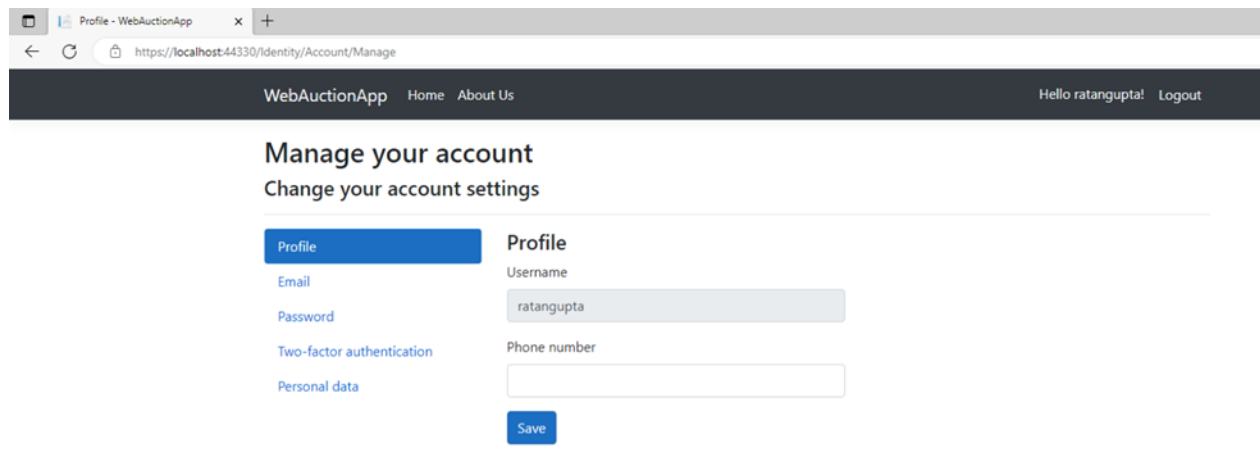


Figure 9: Buyer – Manage Account Page

## 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.

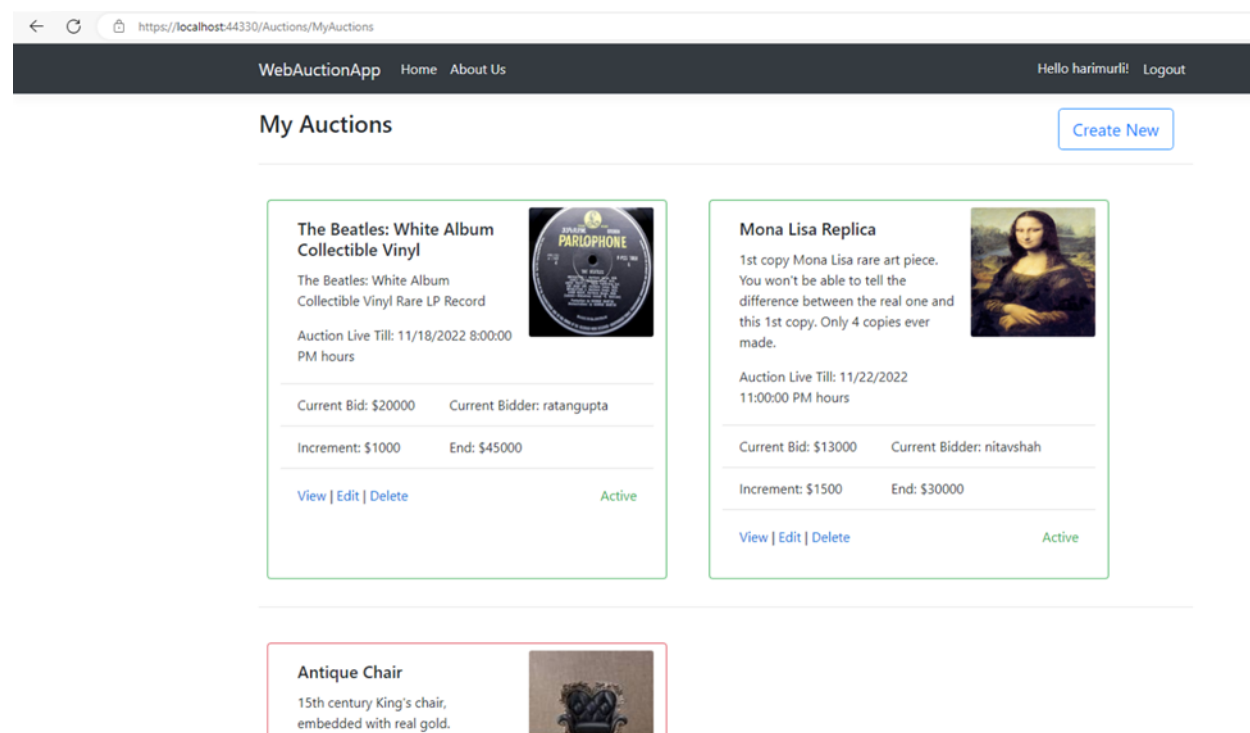


Figure 10: Seller – Home Page



## 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.

WebAuctionApp Home About Us Hello harimurli! Logout

### Create Auction

Product Name

Product Description

Starting Bid

End Bid

Bid Increment

Auction Close Time

mm/dd/yyyy --:-- --

Upload Product Image

Choose File No file chosen

Create

[Back to My Auctions](#)

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.

WebAuctionApp Home About Us Hello harimurli! Logout

### The Beatles: White Album Collectible Vinyl

The Beatles: White Album Collectible Vinyl Rare LP Record

Auction Live For: 11/18/2022 8:00:00 PM hours

Current Bid: \$20000	Current Bidder: ratangupta	
Bidding Starts at: \$15000	Bidding Ends At: \$45000	Minimum Bid Increment: \$1000

[Back to My Auctions](#)

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.

https://localhost:44330/Auctions/Edit/e8c0eaf4-a210-4147-b194-deca58cc5655

WebAuctionApp Home About Us Hello harimurli! Logout

### Auction

Product Name  
The Beatles: White Album Collectible Vinyl

Product Description  
The Beatles: White Album Collectible Vinyl Rar

Starting Bid  
15000

End Bid  
45000

Bid Increment  
1000

Auction Close Time  
11/18/2022 08:00 PM

Upload Product Image  
Choose File No file chosen

Save

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.

https://localhost:44330/Auctions/Delete/e8c0eaf4-a210-4147-b194-deca58cc5655

WebAuctionApp Home About Us Hello harimurli! Logout

Are you sure you want to delete this auction?

The Beatles: White Album Collectible Vinyl

The Beatles: White Album Collectible Vinyl

The Beatles: White Album Collectible Vinyl Rare LP Record

Auction Live For: 11/18/2022 8:00:00 PM hours

Current Bid: \$20000 Current Bidder: ratangupta

Bidding Starts at: \$15000 Bidding Ends At: \$45000 Minimum Bid Increment: \$1000

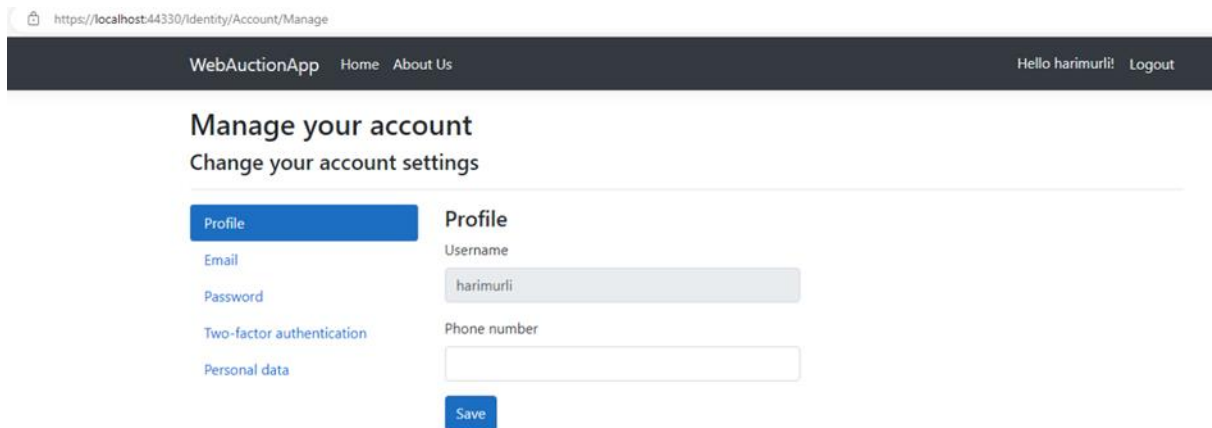
Delete

Back to My Auctions

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.



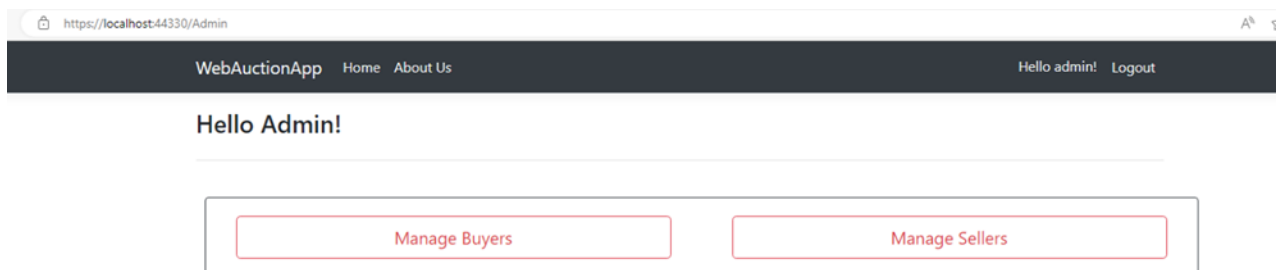
The screenshot shows a web browser window with the URL `https://localhost:44330/Identity/Account/Manage`. The page has a dark header with "WebAuctionApp" and links to "Home" and "About Us". On the right, it says "Hello harimurli!" and "Logout". The main content area is titled "Manage your account" and "Change your account settings". On the left, there is a sidebar with links: "Profile" (highlighted in blue), "Email", "Password", "Two-factor authentication", and "Personal data". The "Profile" section on the right contains a "Username" field with the value "harimurli", a "Phone number" field, and a "Save" button.

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.



The screenshot shows a web browser window with the URL `https://localhost:44330/Admin`. The page has a dark header with "WebAuctionApp" and links to "Home" and "About Us". On the right, it says "Hello admin!" and "Logout". The main content area is titled "Hello Admin!". Below the title, there are two buttons: "Manage Buyers" and "Manage Sellers".

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.

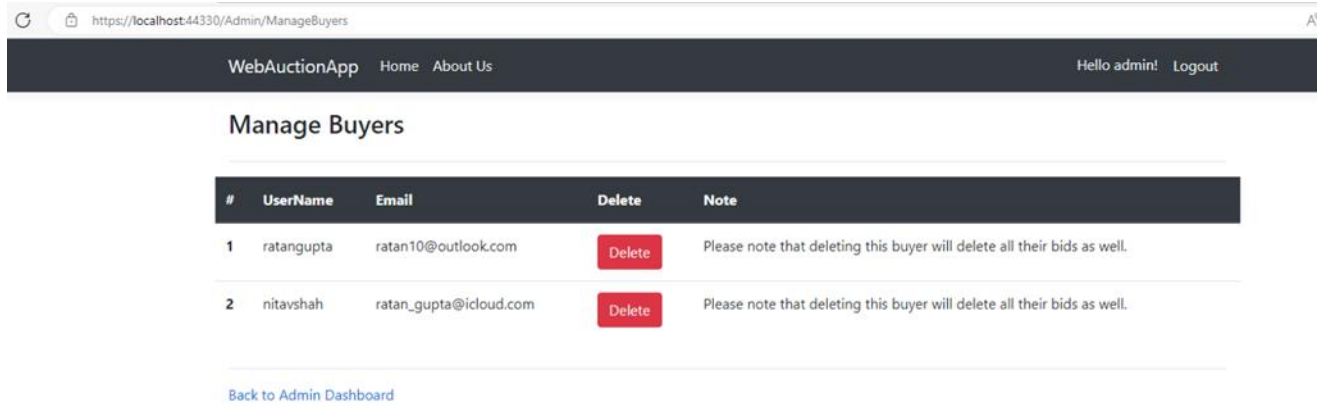


Figure 17: Admin – Manage Buyers Page

### 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.

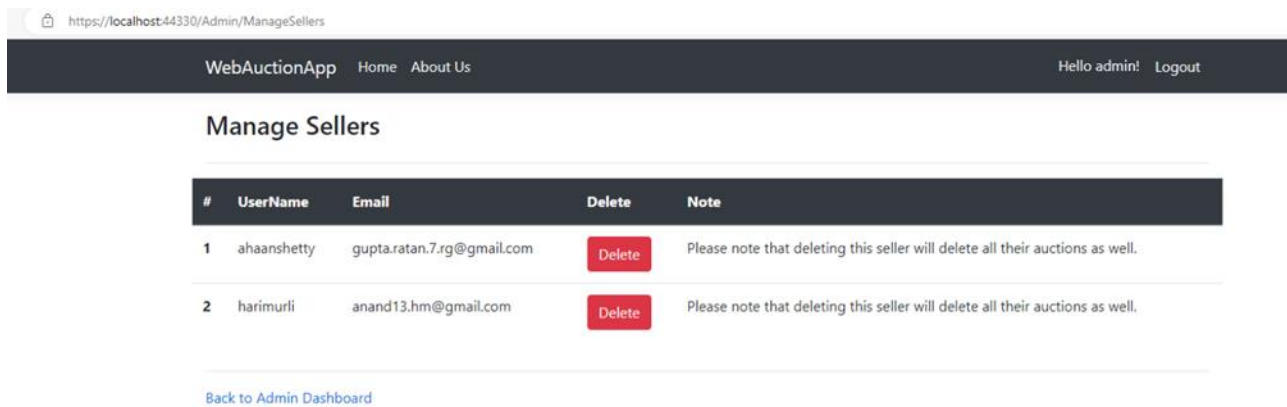


Figure 18: Admin – Manage Sellers Page