Spartan Auction

Annica Mclean (Customer/User), Jasiara Mayes (Admin) & David Williams (Provider)

https://github.com/Jasiara/Spartan-Auction.git

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Software Requirements Specification (SRS)

1. Project General Description

The goal of Spartan Auction is to allow UNCG students to bid on other student's items and to sell their

own items. The Spartan Auction app allows students to search for items, get recommendations for new

items, place bids, and monitor their activity while using the app.

2. Product Features

Spartan Auction is designed to help UNCG students be able to bid on different products in the

community. Below are the key features and functions that defines the application:

Profile Creation: This allows our users to create profiles that will allow them to use the app to the

fullest and communicate with one another whether buyer or seller.

Search Functionality: The users can easily search for any auction on the app using the search

functionality built in. This will allow buyer to easily find what they are looking for and sellers to see

what price they should start their bidding at.

Adding Bids and Bidding: UNCG students can add items they would like to auction onto the app, with

a few clicks of a button. They can also bid on an item with a few clicks as well.

Popular and New Bid: Spartan Auction has a homepage that will show a mix of new auctions and

popular auctions people are looking at to see if the user would like to bid on the auctions in question.

3. Functional Requirements

- FR0: The app will allow users to create a profile.

- FR1: The app will allow users to modify their profile.

- FR2: The app will allow sellers to auction off items.

- FR3: The app will allow users to search for items.

- FR4: The app will allow users to search for other users.

- FR5: The app will allow users to leave reviews for other users.

- FR6: The app will allow sellers to review the reviews left for them.

- FR7: The app will allow sellers to reply to the reviews left for them.

- FR7: There is no separation between users and sellers.09/26/2024 Version 1

- FR6: The app will allow users to bid on items.

- FR7: All accounts will be protected by a login and password.

- FR8: The administrators will be assigned.

- FR9: Administrators will be able to delete any bids.

- FR10: Administrators will be able to manage all accounts.

-FR11: Administrators will be able to delete any items being auctioned.

- FR12: Administrators will be able to see how users are using the app.

4. Non-Functional Requirements

- NFR0: There should be 3 to 5 different bids depending on the size of the device per row. So, the

user will not be overwhelmed by how many bids there are on the screen.

- NFR1: The bids should be easy to see on the screen so anybody can easily read it no matter

what device you are using.

- NFR2: The app needs to have UNCG colors of navy, gold, and gray.

- NFR3: Home screen should be easy to access on any other screen.

5. Scenarios

a. Users – Annica McLean

i. Create their profile (Sign Up)

• **Initial Assumption:** The user has internet access and can get to our website.

• **Normal:** The user will be presented with the home screen. Then they will be able to click on a button that will lead them to the sign-up page. From there they can type in their information to create an account.09/26/2024 Version 1

• **What Can Go Wrong:** The user can type in an email that has already been used to create an account.

• **Other Activities:** The user can go back to the home screen. The user can change to login instead.

• **System State Completion:** The user now has a profile that they can go to and now can start bidding on items.

ii. Sign into their profile (Login)

• **Initial Assumption:** The user has internet access and can get to our website.

• **Normal:** The user will be presented with the home screen. Then they will be able to click on a button that will lead them to the login page. From there they can type in their information to login.

• **What Can Go Wrong:** The user can enter in a wrong email address or password not allowing them to login to their account (if they have one).

• **Other Activities:** The user can go back to the home screen. The user can change to sign-up instead.

• **System State Completion:** The user is now logged in and can now start to bid on items or look at their profile.

iii. Modify their profile

• **Initial Assumption:** The user has internet access, has navigated to our website, and has already logged in.

• **Normal:** The user will be on the home screen. Then the user will click on the profile icon. Next the user will be shown their current information.
The user will click on an edit button. The user will edit their profile.•
What Can Go Wrong: The user can enter in information that could be inappropriate or inaccurate. The button to complete the editing could not be working.
• **Other Activities:** The user can cancel editing their profile.
• **System State Completion:** The user has updated their information to give a more up to date profile.

iv. Search for items and other users

• **Initial Assumption:** The user has internet access and has navigated to our website.
• **Normal:** The user will be on the home screen. The user will click on the search bar. Then the user will type in the item or user they would like to search up. After that the user will click on the search icon.
• **What Can Go Wrong:** The user has entered in something that does not exist or is not the name of the user.
• **Other Activities:** The user can scroll through the home page and look at other items. They can also click on their profile icon or the login and sign-up button depending on if they are logged in or not.
• **System State Completion:** The user can see items and users that are related to the search they have just completed.

v. Leave reviews for other users

• **Initial Assumption:** The user has internet access, has navigated over to our site, is currently logged in, and has won an auction.
• **Normal:** The user will click on their profile. The user will see a tab for

previous auctions they have won. The user will click the tab. The user will see a list of the item they won and the user with a link that will say “would you like to leave a review?”. From there the user will click on the link and will be able to fill out the review.

• **What Can Go Wrong:** The user has not won an auction so there is no one to review. The user has already written a review for every auction they have won.•

• **Other Activities:** They can cancel writing the review for the other user. The user can also go back to the home screen.

• **System State Completion:** The user has written a review for the user they had won an auction for.

vi. Bid on items

Initial Assumption: The user has internet access, has navigated over to our site, and is already logged in.

• **Normal:** The user is on the home screen. The user chooses an item to bid on. They are taken to a screen to see the bid in full view. The user clicks on a bid now button. A tiny screen appears showing the current bid and a box to type in their bid. The user types in their bid and clicks the Submit bid button.

• **What Can Go Wrong:** The user enters in a bid that is not higher than the current bid. The user tries to bid, but the time is up by the time they do bid. The user could not have any money for the bid to go through if they win.

• **Other Activities:** The user can cancel the bid.

• **System State Completion:** The user has submitted a bid that is higher than the current bid and now they currently have the highest bid till the

auction ends or someone else outbids them.

b. Providers – David Williams

i. Create their profile (Sign Up)

• **Initial Assumption:** The providers have internet access and can get to our website.

• **Normal:** The providers will be presented with the home screen. Then they will be able to click on a button that will lead them to the sign-up page. From there they can type in their information to create an account.

• **What Can Go Wrong:** The providers can type in an email that has already been used to create an account.•

• **Other Activities:** The providers can go back to the home screen. The providers can change to login instead.

• **System State Completion:** The providers now have a profile that they can go to and now can start bidding on items and auction their own items.

ii. Sign into their profile (Login)

• **Initial Assumption:** The providers have internet access and can get to our website.

• **Normal:** The providers will be presented with the home screen. Then they will be able to click on a button that will lead them to the login page. From there they can type in their information to login.

What Can Go Wrong: The providers can enter in a wrong email address or password not allowing them to login to their account (if they have one).

• **Other Activities:** The providers can go back to the home screen. The user can change to sign-up instead.

• **System State Completion:** The user is now logged in and can now start

to bid on items, auction their own items, or look at their profile.

iii. Modify their profile

• **Initial Assumption:** The providers have internet access, has navigated to our website, and has already logged in.

• **Normal:** The provider will be on the home screen. Then the provider will click on the profile icon. Next the provider will be shown their current information. The provider will click on an edit button. The provider will edit their profile.

• **What Can Go Wrong:** The provider can enter in information that could be inappropriate or inaccurate. The button to complete the editing could not be working.

• **Other Activities:** The provider can cancel editing their profile.

• **System State Completion:** The provider has updated their information to give a more up to date profile.•

iv. Auction their items

• **Initial Assumption:** The provider has internet access, has navigated over to our site, and is already logged in.

• **Normal:** The provider is on the home screen. Then they click on their profile icon. Next the provider will be shown their current information. The provider will click on a button that give allows the provider to auction off an item attached to their account.

• **What Can Go Wrong:** The provider enters in an insufficient amount of information about their auctioned item. The provider can enter in information that could be inappropriate or inaccurate. The button that allows the provider to complete the building of the auction could not be working.

• **Other Activities:** The provider can cancel their auction.

• **System State Completion:** The provider has submitted an auction and waits for the timer for the auction to end to reward the highest bid.**v. Modify their Auction**

• **Initial Assumption:** The providers have internet access, has navigated to our website, and has already logged in.

• **Normal:** The provider is on the home screen. Then they click on their profile icon. Next the provider will be shown their current information. The provider will click on a button that gives information about their current auctions that are running. The providers then click on the auction they choose to modify. In the auction information they click on the button that allows for them to modify the auction.

• **What Can Go Wrong:** The provider can enter in information that could be inappropriate or inaccurate. The provider tries to delete in a sufficient amount of information about their auctioned item. The button to complete the editing could not be working.

• **Other Activities:** The provider can cancel editing their auction.

• **System State Completion:** The provider has updated their information to give a more up to date information about the auction.

vi. View statistics of Auction

• **Initial Assumption:** The provider has internet access, has navigated over to our site, is currently logged in.

• **Normal:** The user is on the home screen. Then they click on their profile icon. Next the provider will be shown their current information. The provider will click on a button that gives information about their current auctions that are running. The providers then click on the auction they choose to inspect. In the auction information they can check on various

information about users bidding on the auction including comments.

• **What Can Go Wrong:** The button to back out the page when you're finished inspecting could not be working. Some comments won't show.

• **Other Activities:** The provider can also go back to the home screen or profile.

• **System State Completion:** The provider has successfully looked their information about the current auction running and is satisfied with the current results.**v. Check on the Reviews and Ratings for your account**

• **Initial Assumption:** The provider has internet access, has navigated over to our site, is currently logged in.

• **Normal:** The provider will click on their profile. Next the provider will be shown their current information. The provider can see the ratings of what users give to them. And then the provider scrolls to an area to where they can view comments that other users and providers leave for them.

• **What Can Go Wrong:** The button to back out the page when you're finished inspecting could not be working. Some comments won't show.

• **Other Activities:** The provider can also go back to the home screen.

• **System State Completion:** The provider has successfully inspected their profile.

c. Admin – Jasiara Mayes

1. **Administrator is assigned (FR8)**

• **Initial Assumption**: The admin has access to the website login panel.

• **Normal**: An authorized admin or super-admin logs into the admin dashboard and assigns new

administrators using a dedicated "Assign Admin" page. They input the necessary credentials

(email, name, role).

• **What Can Go Wrong**: The user might mistakenly assign the wrong person as an admin, or the

system could fail to recognize an existing admin account, causing permission issues.

• **Other Activities**: Admins can manage user accounts or monitor bidding activities while they

assign new admins.

• **System State Completion**: A new administrator is successfully assigned with the proper

permissions.

2. **Administrator deletes a bid (FR9)**

• **Initial Assumption**: The admin has access to the admin panel and is logged in.

• **Normal**: The admin goes to the "Bid Management" page, selects a particular bid, and clicks the

delete button next to the bid they want to remove. A confirmation message appears, and the

admin confirms the deletion.

• **What Can Go Wrong**: The admin might mistakenly delete the wrong bid or experience system

delays causing issues with bid deletion.

• **Other Activities**: Admins can filter bids by item or user to ensure they select the correct bid for

deletion. They can also cancel the deletion process.

• **System State Completion**: The selected bid is successfully removed from the system.

3. **Administrator manages user accounts (FR10)**

• **Initial Assumption**: The admin is logged in and has access to the admin panel.• **Normal**: The admin navigates to the "User Management" page where they can view all user

profiles. From there, the admin can suspend, delete, or modify user details. They can also reset

passwords or change user roles.

• **What Can Go Wrong**: The admin may mistakenly delete or suspend the wrong account, or

system performance issues might prevent user account updates from reflecting immediately.

• **Other Activities**: Admins can search for users by name, email, or user ID to make changes.

They can also switch between viewing active and suspended accounts.

• **System State Completion**: The admin has successfully managed user accounts by modifying,

suspending, or deleting them.

4. **Administrator deletes an item being auctioned (FR11)**

• **Initial Assumption**: The admin has logged into the admin panel and has access to the auction

management section.

• **Normal**: The admin navigates to the "Auction Management" page, selects an auction, and

clicks the delete button next to the item being auctioned. A confirmation prompt appears, and

the admin confirms the deletion.

• **What Can Go Wrong**: The admin might accidentally delete the wrong auction or encounter

technical issues that prevent the auction from being deleted.

• **Other Activities**: Admins can filter and sort auctions based on categories, end dates, or current

bid status. They can also cancel the deletion process.

• **System State Completion**: The selected auction item is successfully removed from the system.

5. **Administrator monitors app usage by users (FR12)**

• **Initial Assumption**: The admin has access to the admin panel and is logged in.

• **Normal**: The admin navigates to the "Usage Analytics" page, where they can view data on how

users are interacting with the app. This includes metrics like login frequency, bidding activity,

reviews left, and profile modifications.

• **What Can Go Wrong**: The analytics dashboard could fail to load properly, or data might not

be up to date, causing issues in monitoring usage.

• **Other Activities**: Admins can filter data based on specific time frames, user types (bidders,

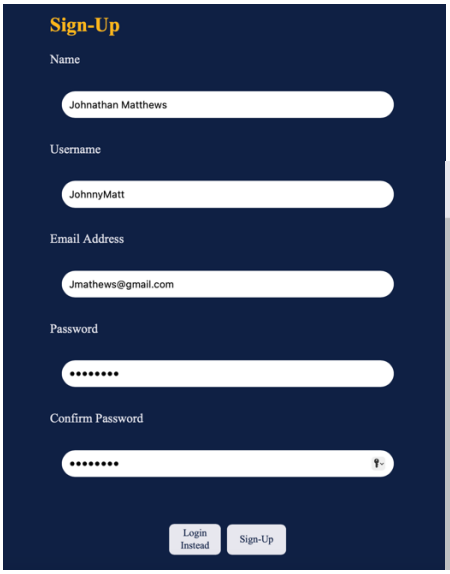
sellers), or activity type (bidding, reviews). They can also export data for further analysis.

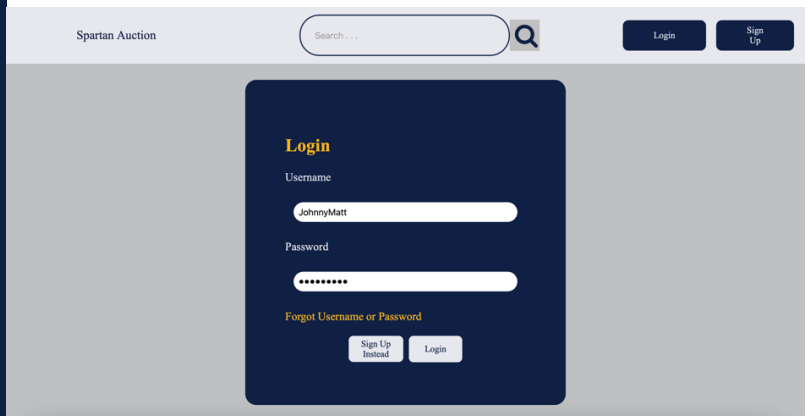
• **System State Completion**: The admin has successfully reviewed user activity patterns and app

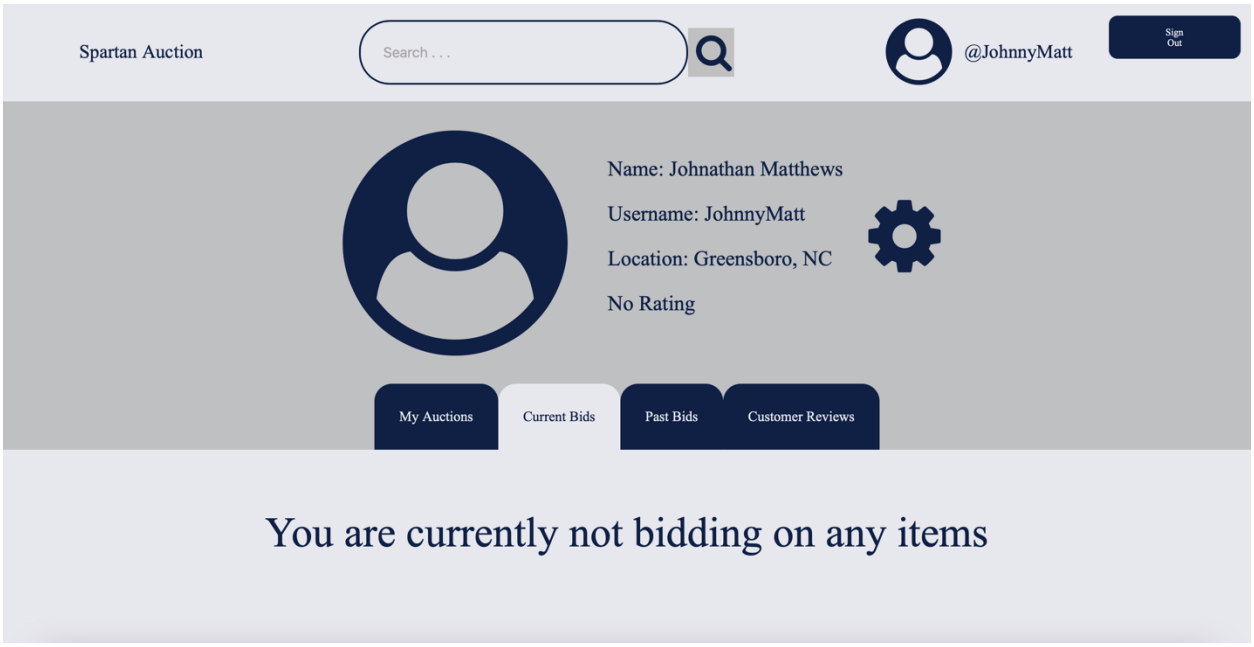
engagement data.

Scenarios With Screenshots

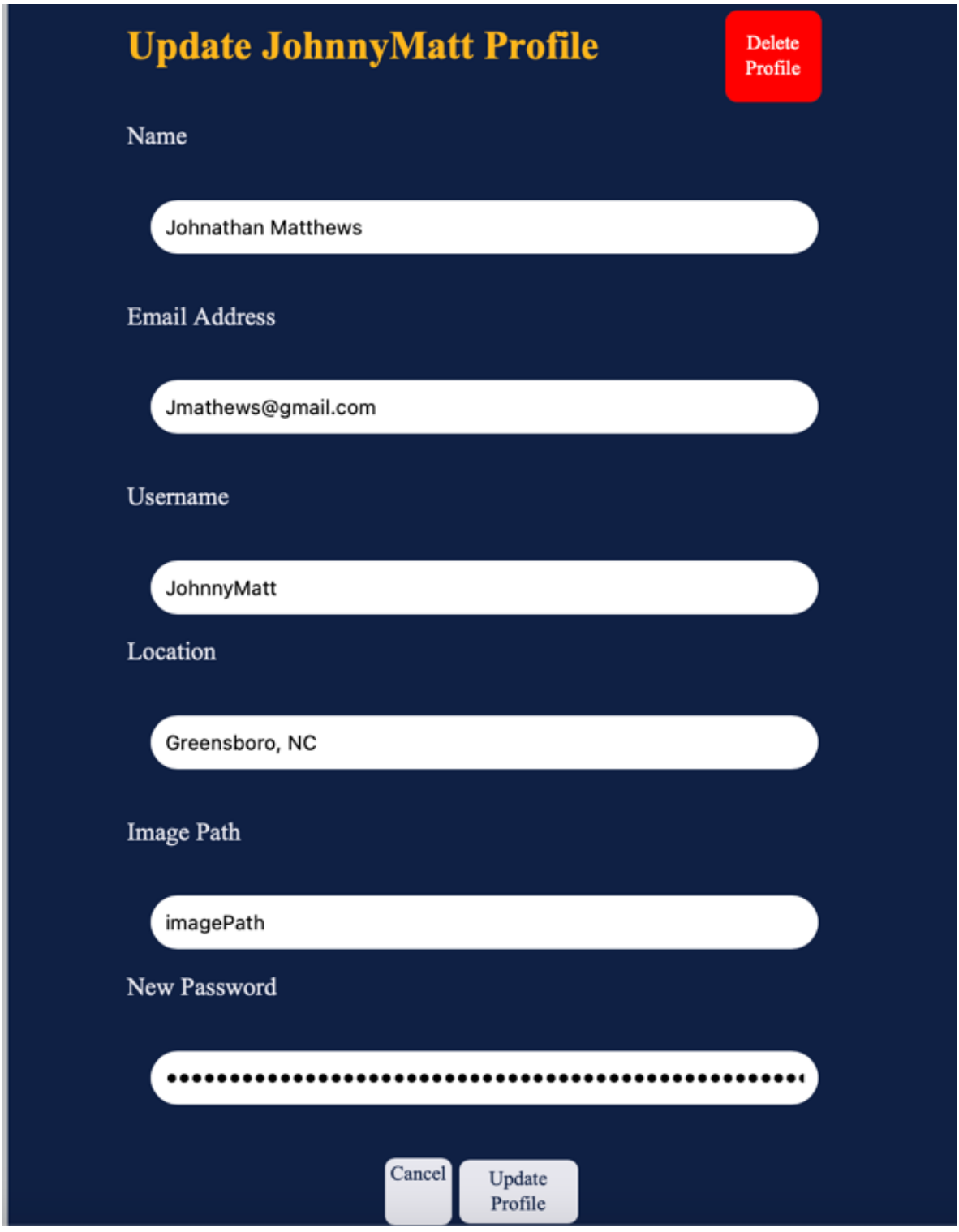
User making account and logging into the account:



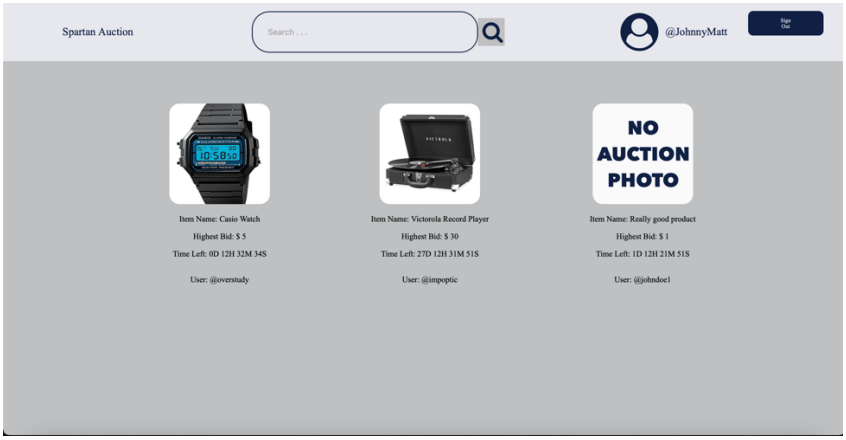


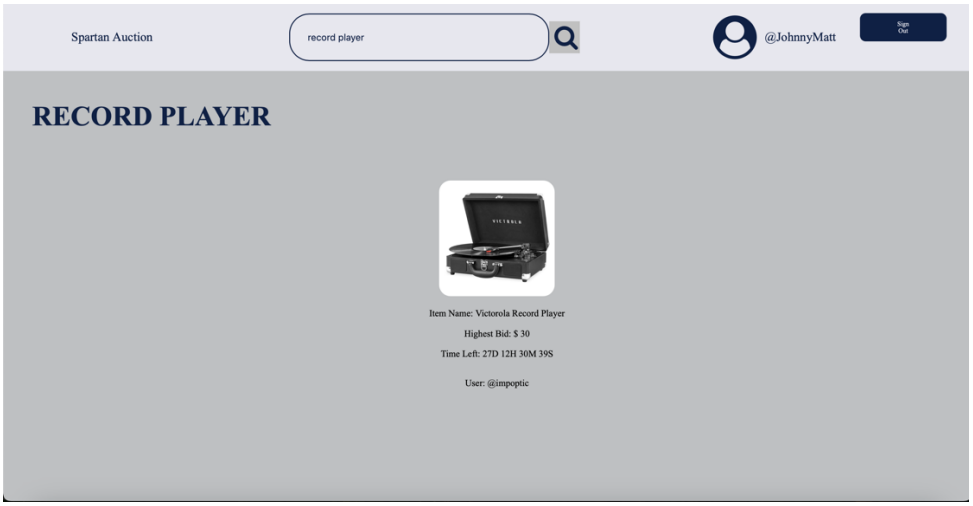


User can modify and delete their account:

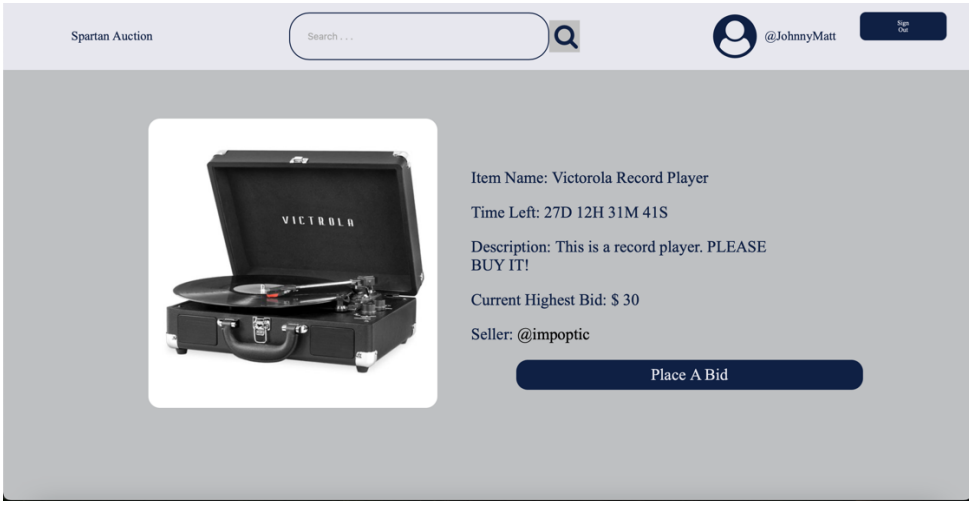


User browsing the index and searching for an auction to bid:

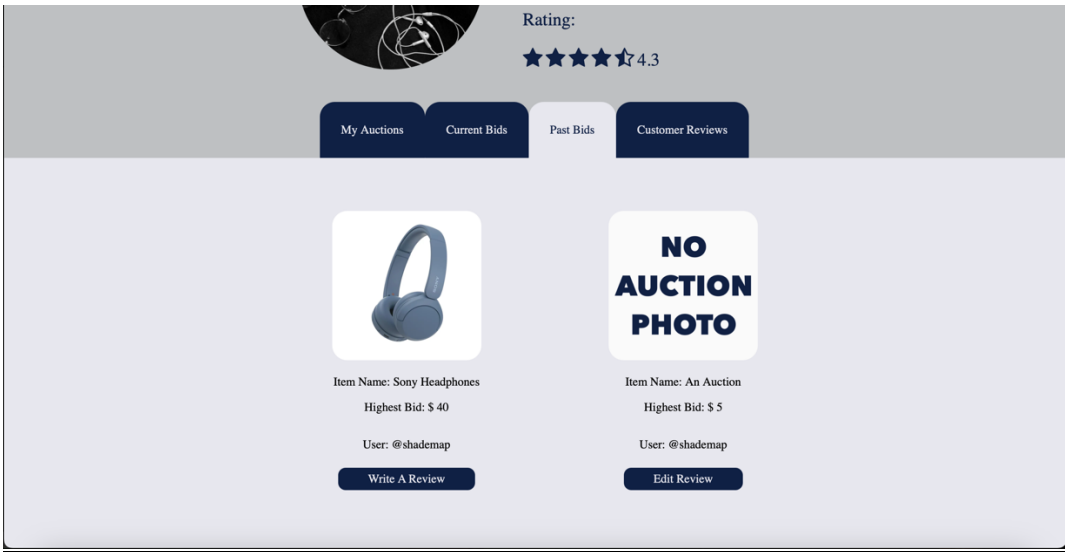


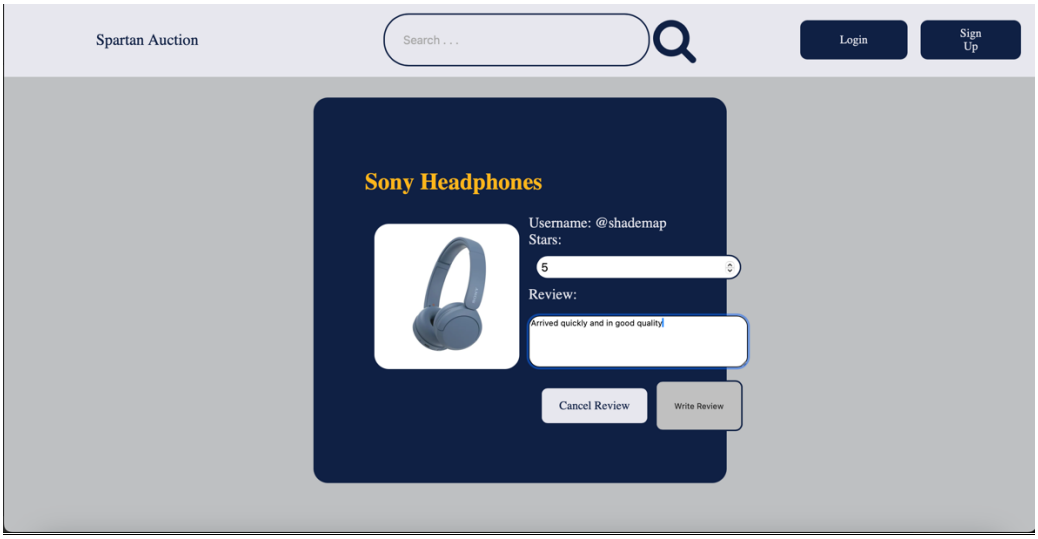


User entering an auction and successfully making a bid:

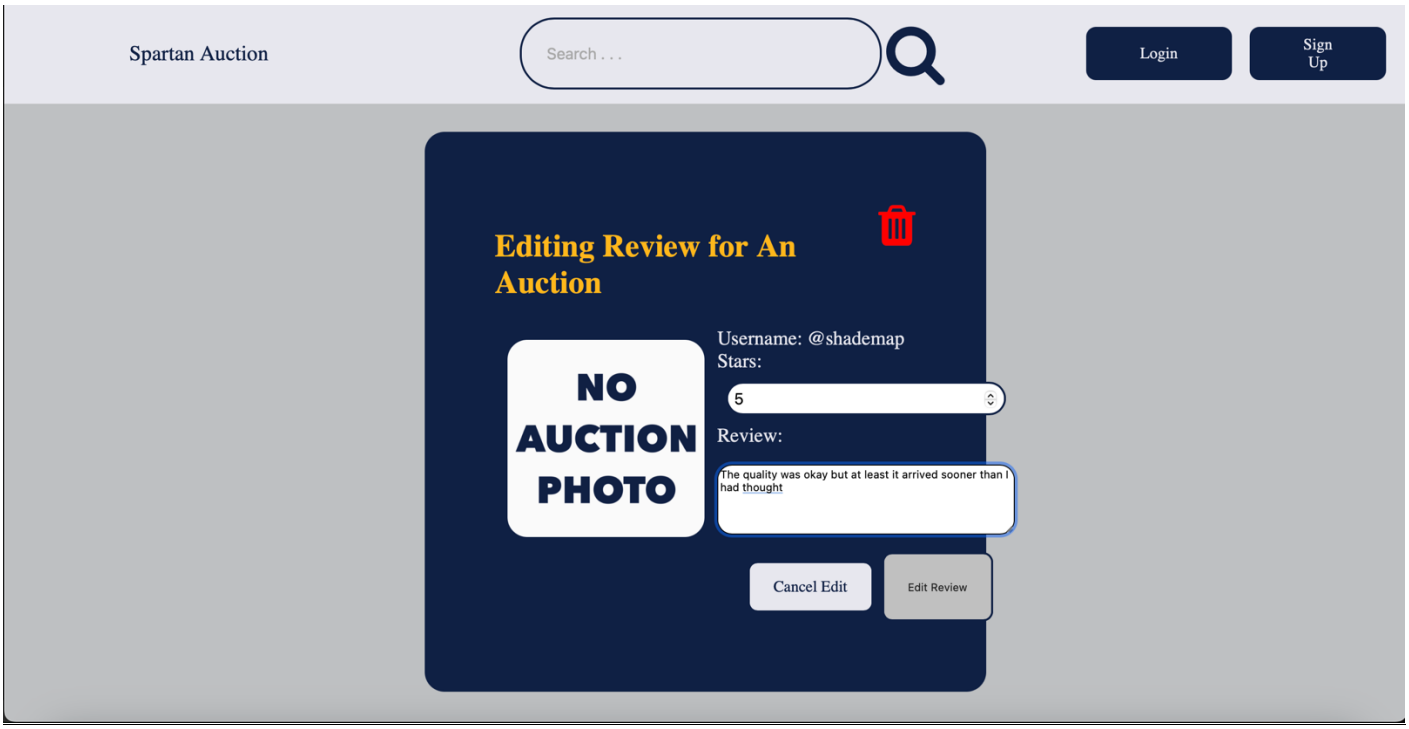


User can make a review/rating a provider:

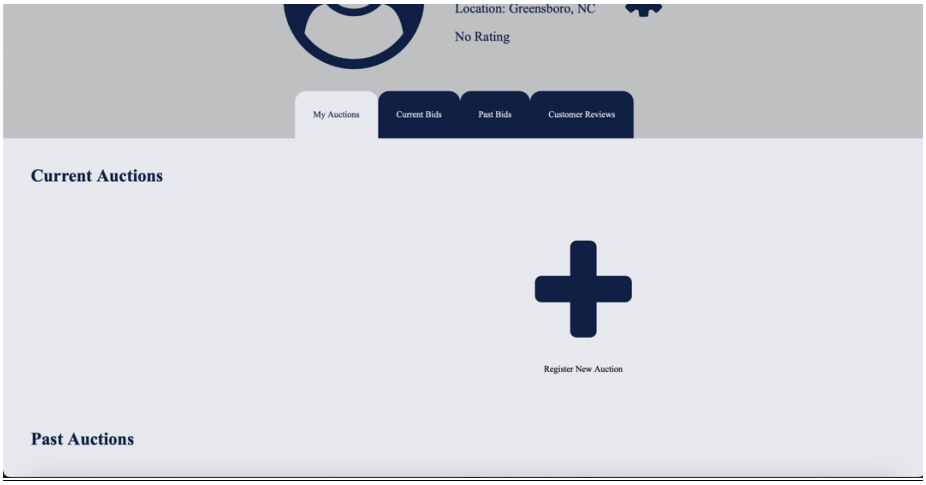


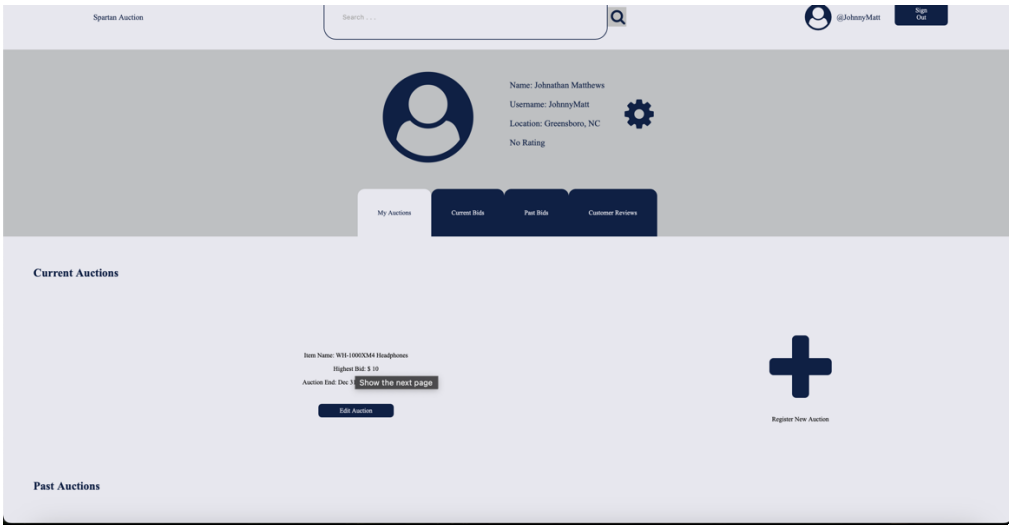


User can modify and delete review/rating:

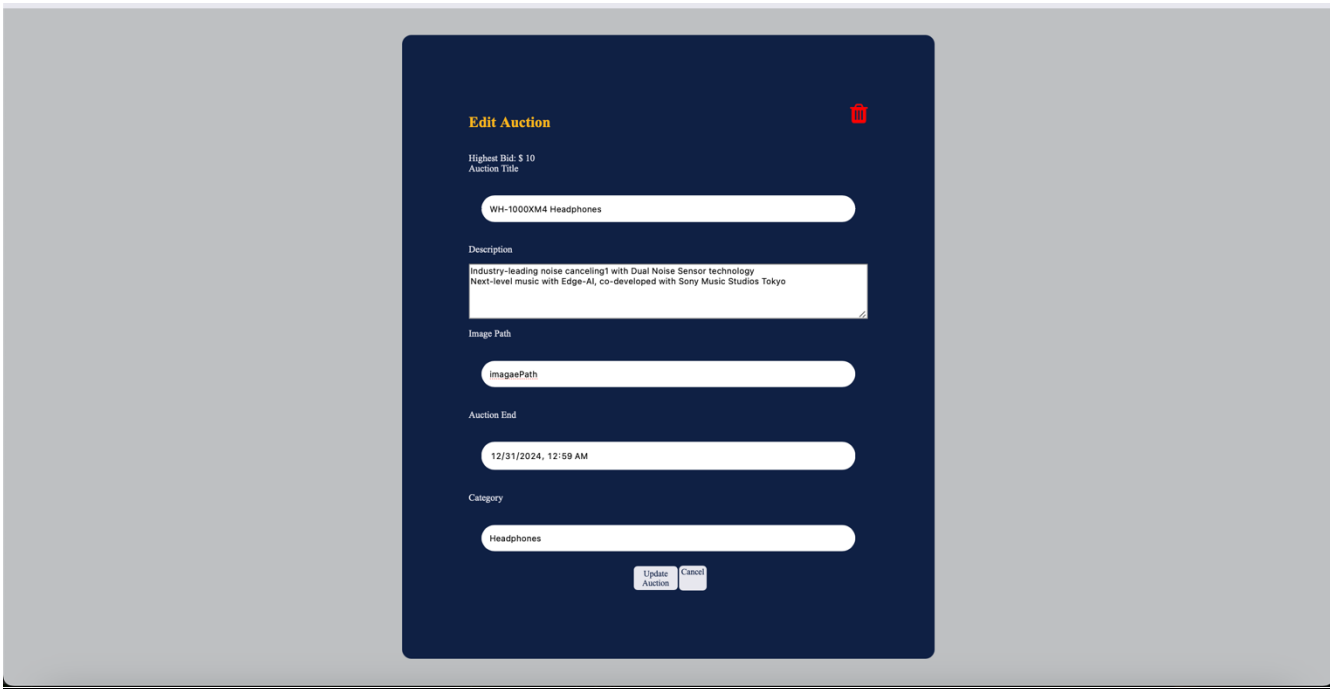


Provider can make and auction:

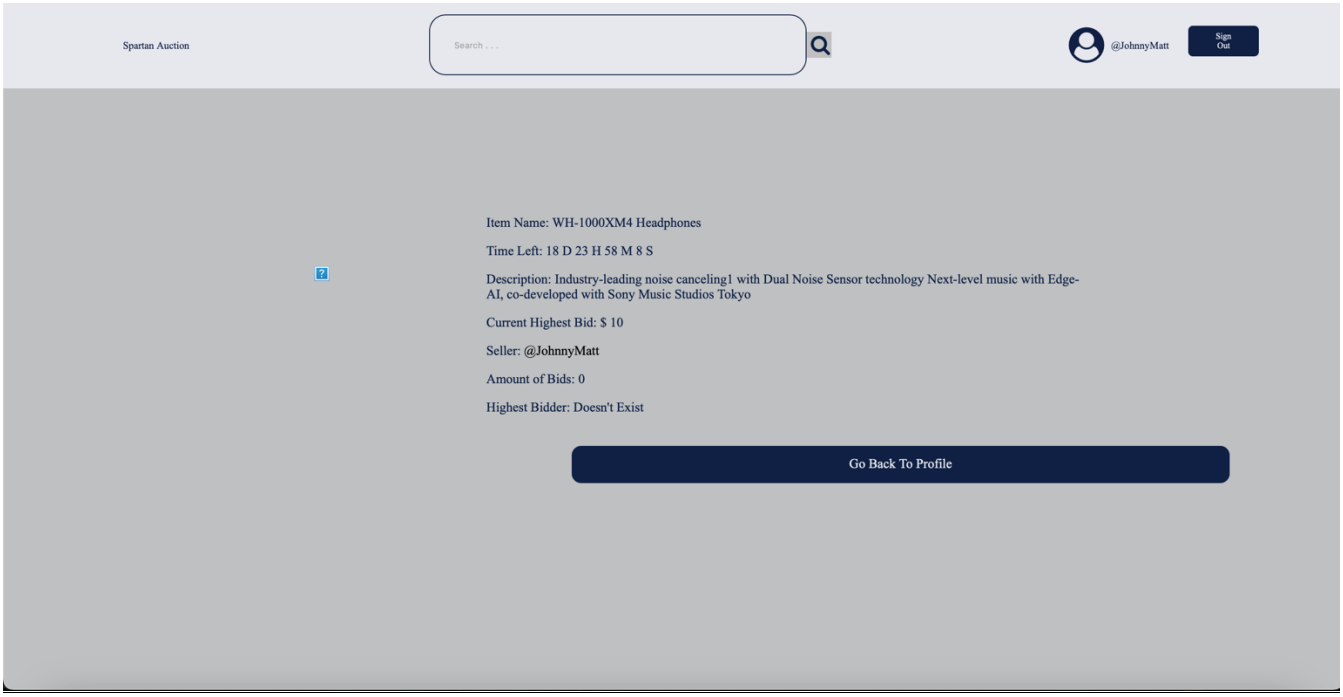




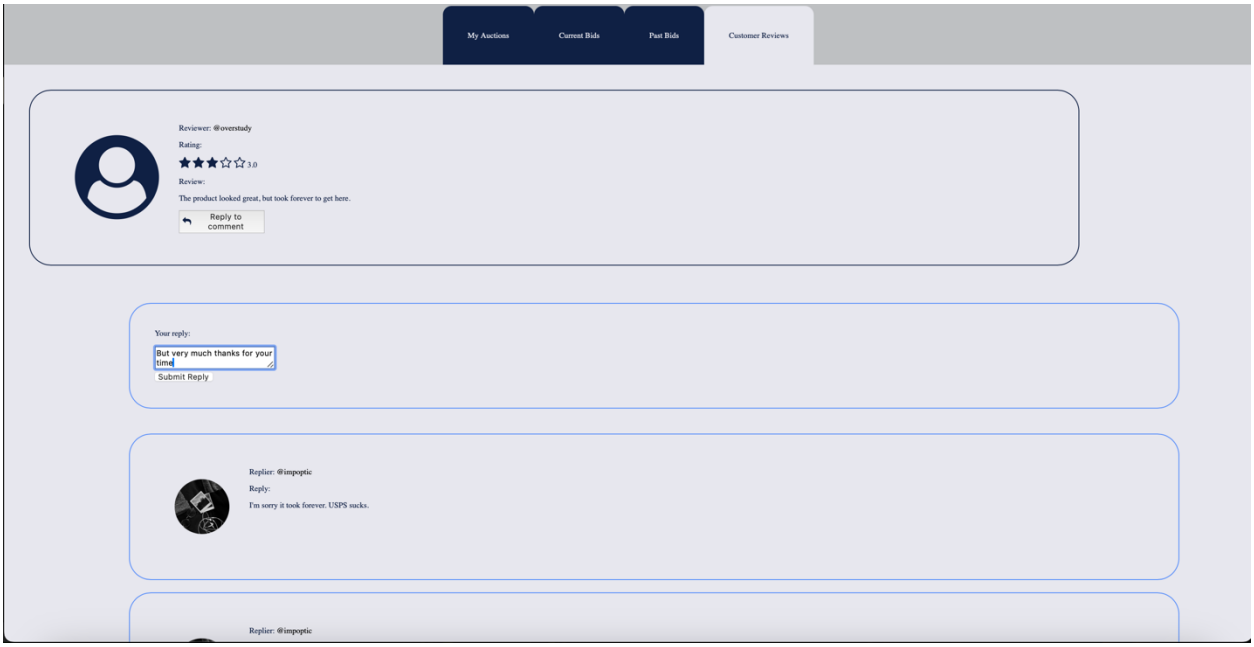
Provider can modify and delete their auction:



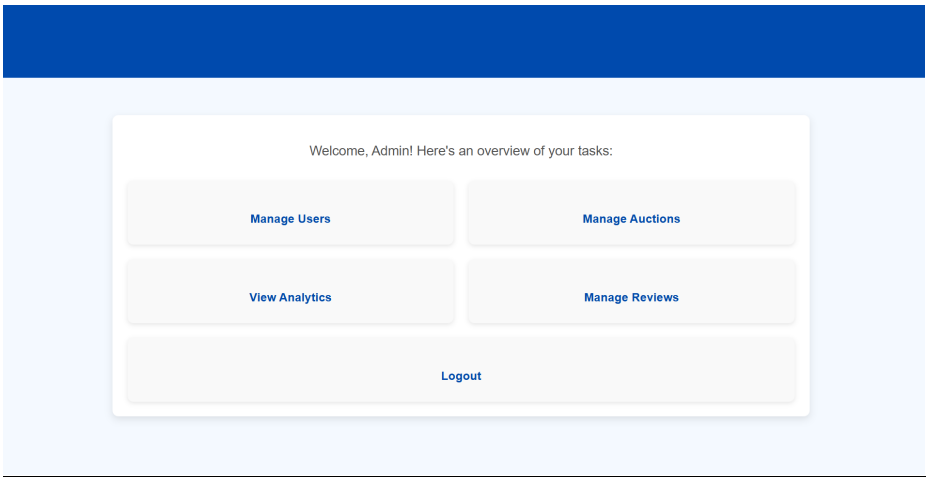
Provider can check their auction statistics:

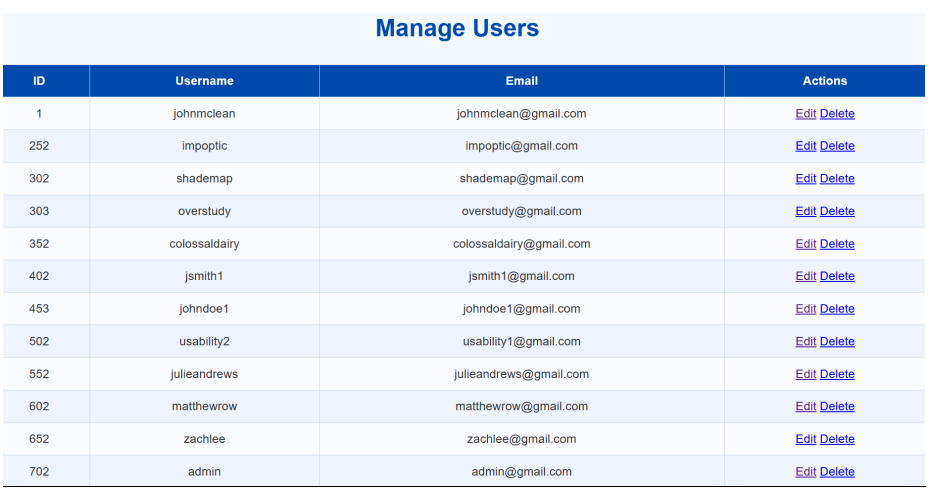


Provider can reply to other users' reviews:



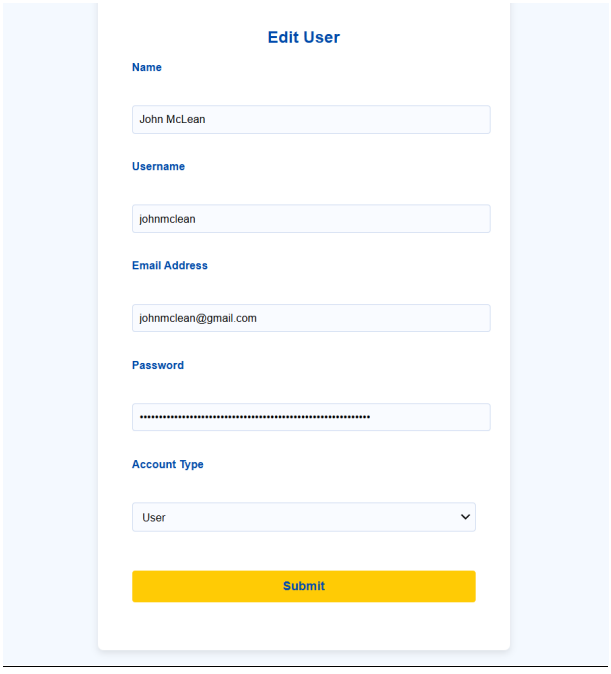
Admin can manage Users (such as edit and delete users):



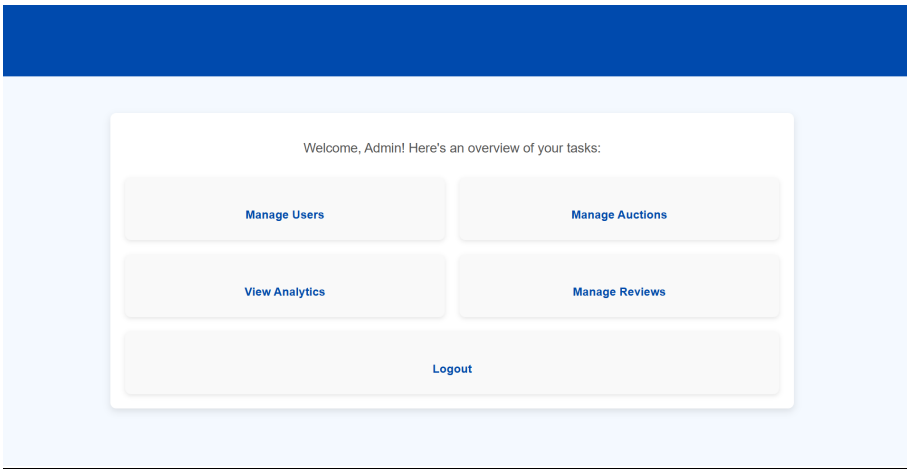


Manage Users

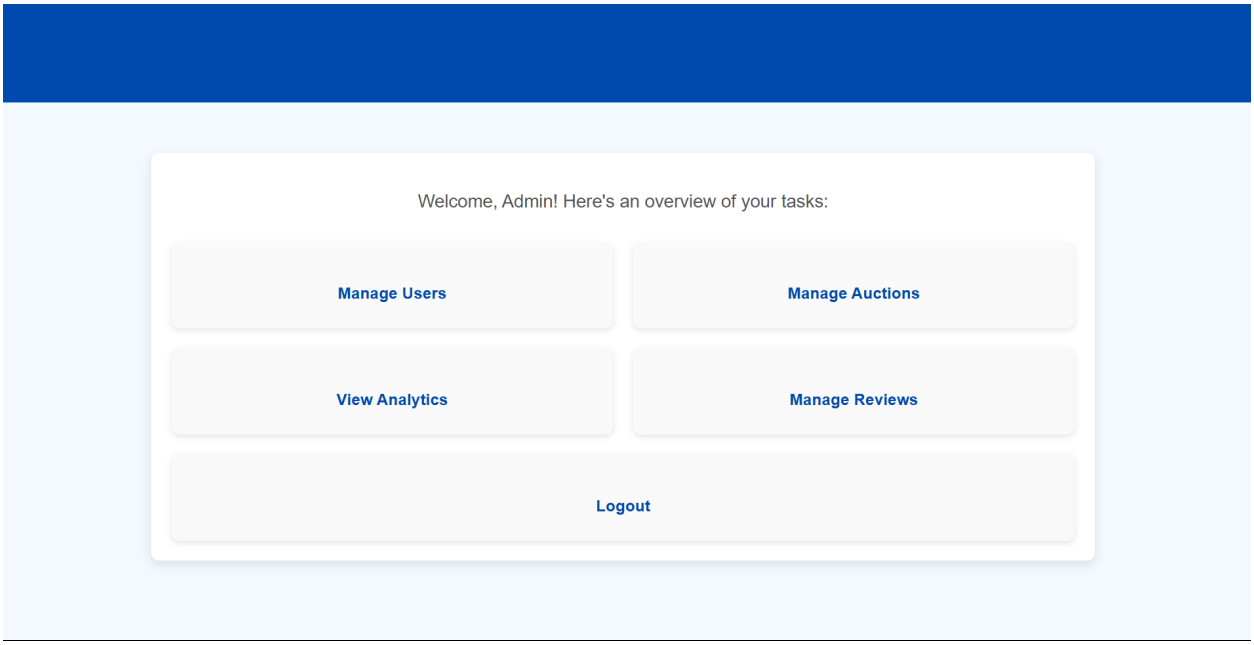
ID	Username	Email	Actions
1	johnmclean	johnmclean@gmail.com	Edit Delete
252	impoptic	impoptic@gmail.com	Edit Delete
302	shademap	shademap@gmail.com	Edit Delete
303	overstudy	overstudy@gmail.com	Edit Delete
352	colossaldairy	colossaldairy@gmail.com	Edit Delete
402	jsmith1	jsmith1@gmail.com	Edit Delete
453	johndoe1	johndoe1@gmail.com	Edit Delete
502	usability2	usability1@gmail.com	Edit Delete
552	julieandrews	julieandrews@gmail.com	Edit Delete
602	matthewrow	matthewrow@gmail.com	Edit Delete
652	zachlee	zachlee@gmail.com	Edit Delete
702	admin	admin@gmail.com	Edit Delete

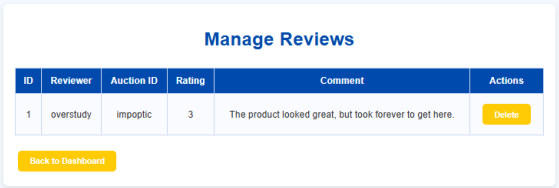


Admin can manage Auctions (such as edit and delete auctions):



Admin can manage Reviews (such as deleting the review):



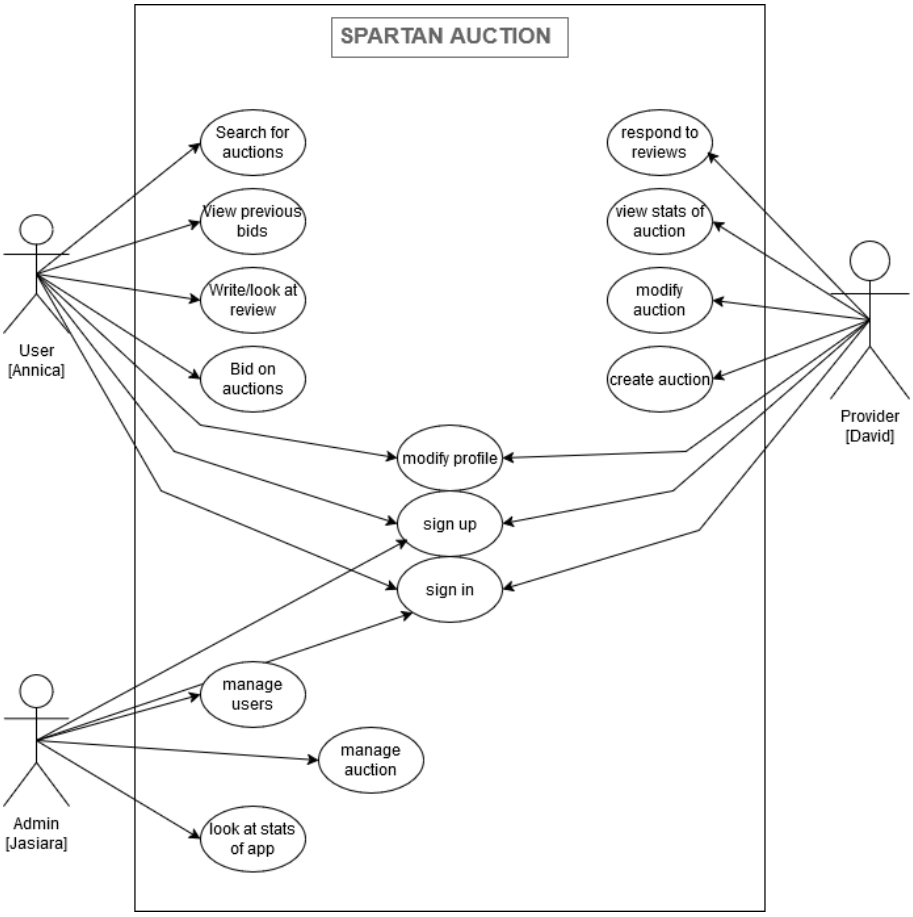


Design Document

1. Project Overview

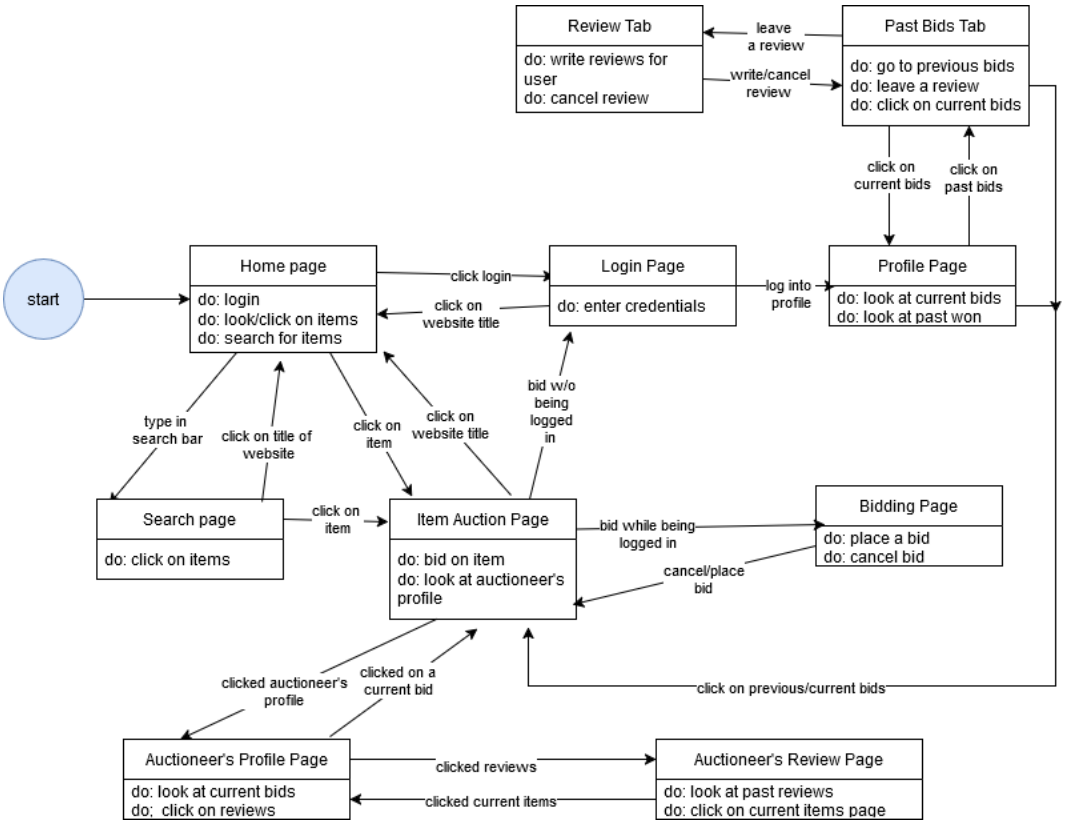
The goal of Spartan Auction is to help give users a new platform that allows them to auction off their items and even bid/buy for items they want. Providers can create auctions that bring many users to try their best to bid and win their items. Users can search and bid/purchase any items that are available to them. Users can even bid/buy items that aren't even close to their location, giving them a wider selection. Admins are responsible for moderation across users, reviews/comments, and even auctions.

2. User-case Model

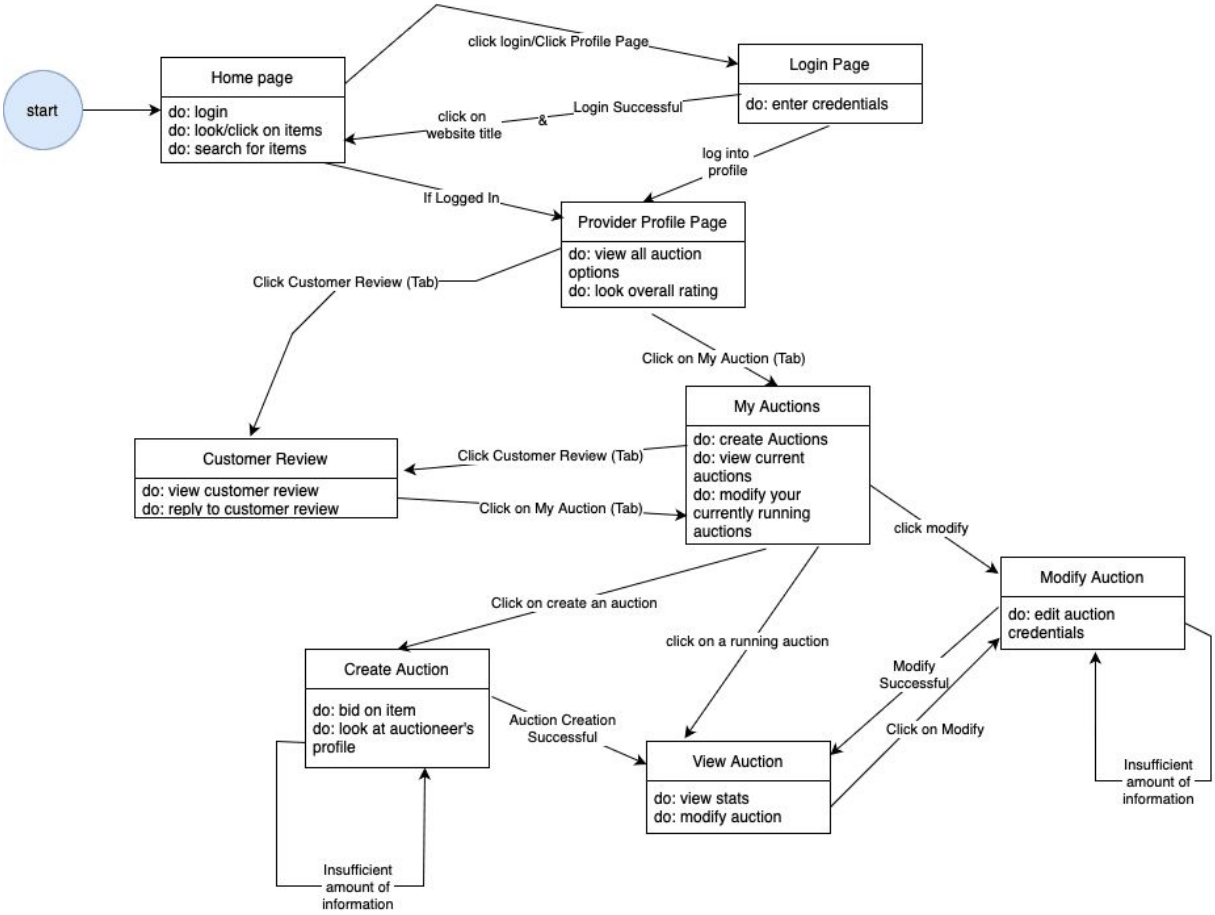


3. State Machine Diagrams

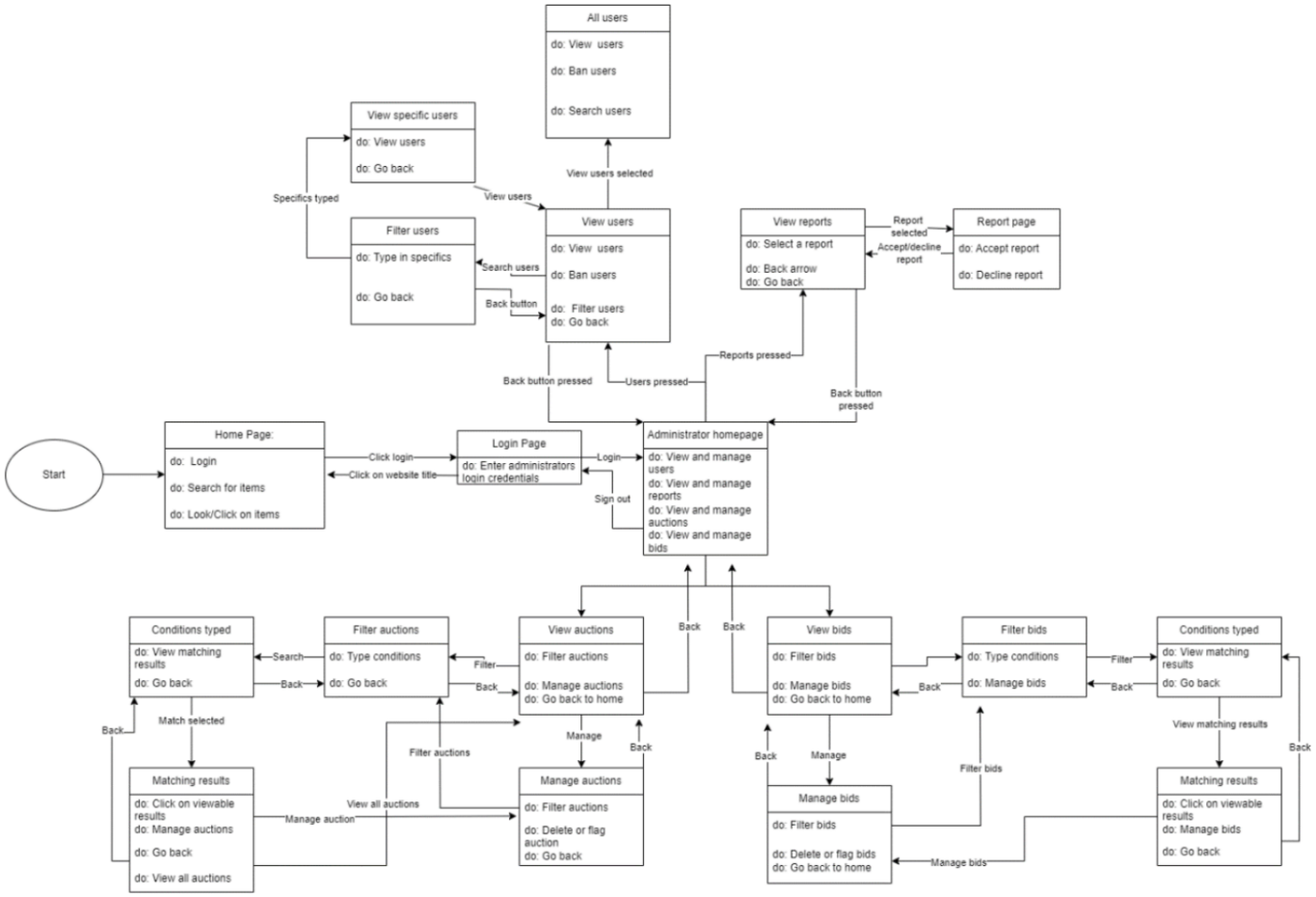
User – Annica McLean



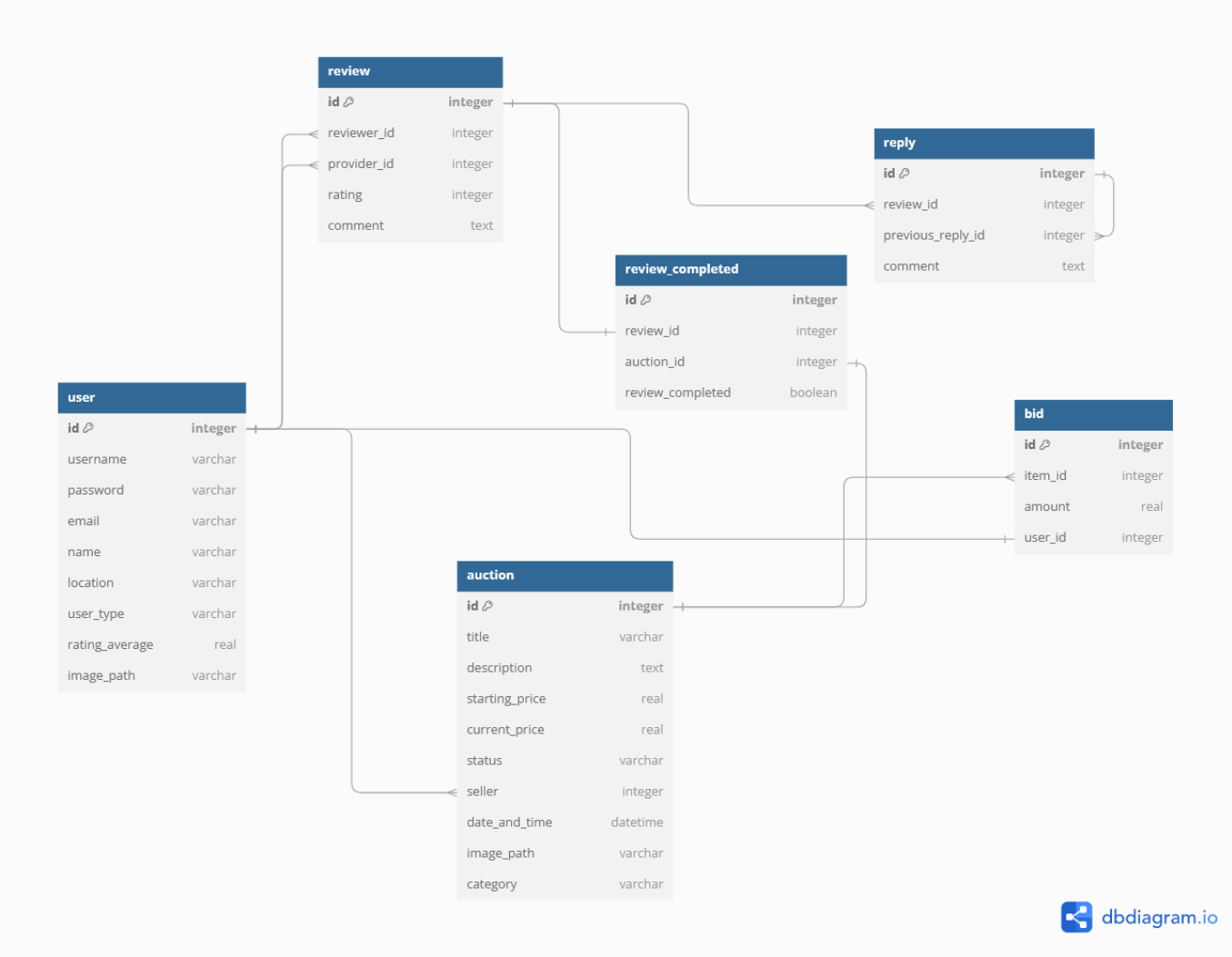
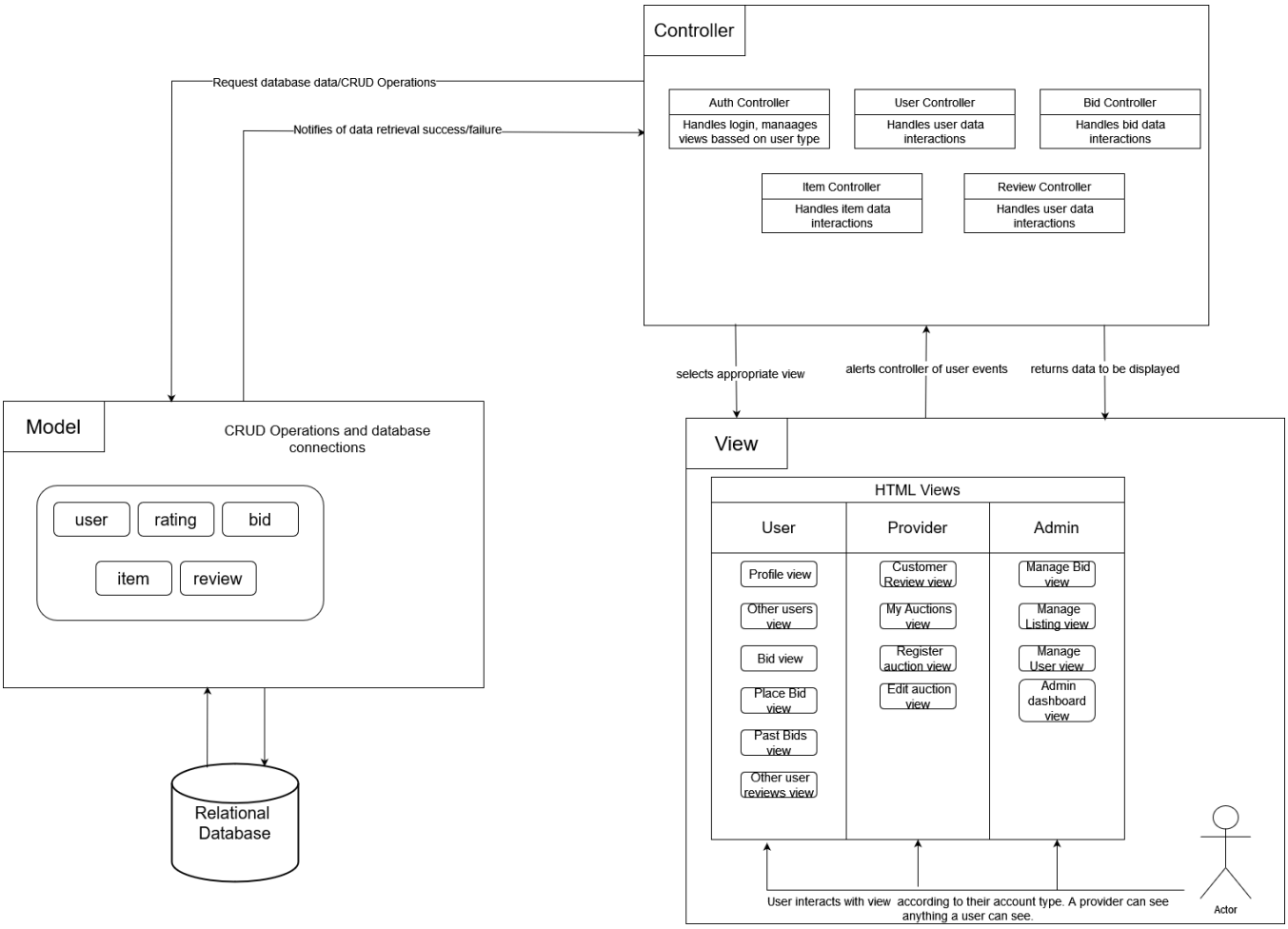
Provider – David Williams



Administrator – Jasiara Mayes



4. Database Scheme



5. Software Structure