1. Hardware requirements

In order to use the service, it is required:

- A computer unit, or any mobile device (e.g., phone, tablet) that allows you to browse the Internet using a web browser
- The operating system on a given device that allows the installation of a web browser
- Web browser
- Constant access to the internet

2. Purpose of creating the site

The goal of the project is to create an innovative platform that allows artists to sell and promote their artworks directly, without the need for middlemen and traditional art galleries. Currently, it is difficult for artists to make large profits from the sale of their works due to the high commissions charged by art galleries, which range from 30% to 75% of the total transaction amount. Our platform will allow artists to increase their profits by directly contacting potential customers, eliminating the costs associated with using art galleries.

Our platform has been made based on web technology, which will allow free access for users from different system platforms. The platform will allow artists to register as a user and create an Artist account, where they can add their artworks, set prices and promote their works. Customers will be able to browse artists' offers, bid on and buy artworks.

3. Table of contents

4. Description of the various functionalities

4.1 Home Page

Upon opening the site, the user sees the home page, which lists the most recently created listings, broken down by works for sale and auctions. Above them is the main navigation bar of the entire site. It contains elements named, in turn, "ArtSphere", Gallery, Artists, Login, and Registration. Each of the listed elements leads to the segment of the site for which it is responsible. The first element "ArtSphere" directs us with a link to the home page on which the user is currently located.
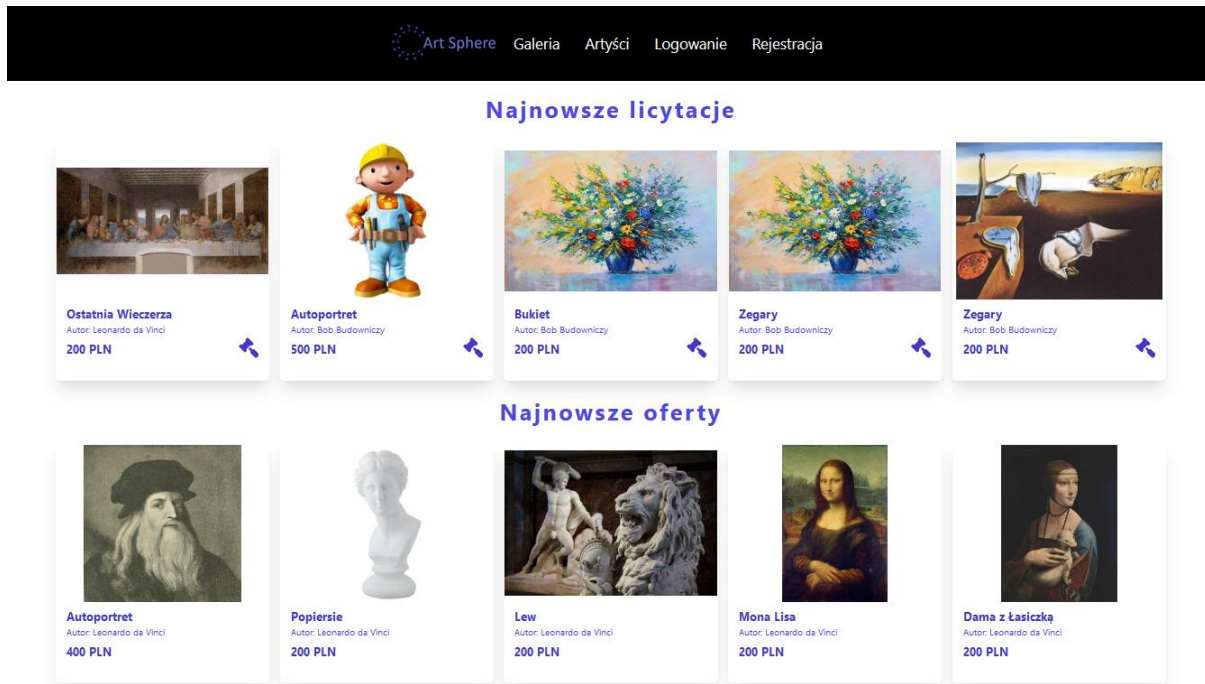

Figure 1 Home Page

The offer lists visible above also, when selecting a specific item, will redirect us to the offer details subpage.

4.2 Gallery
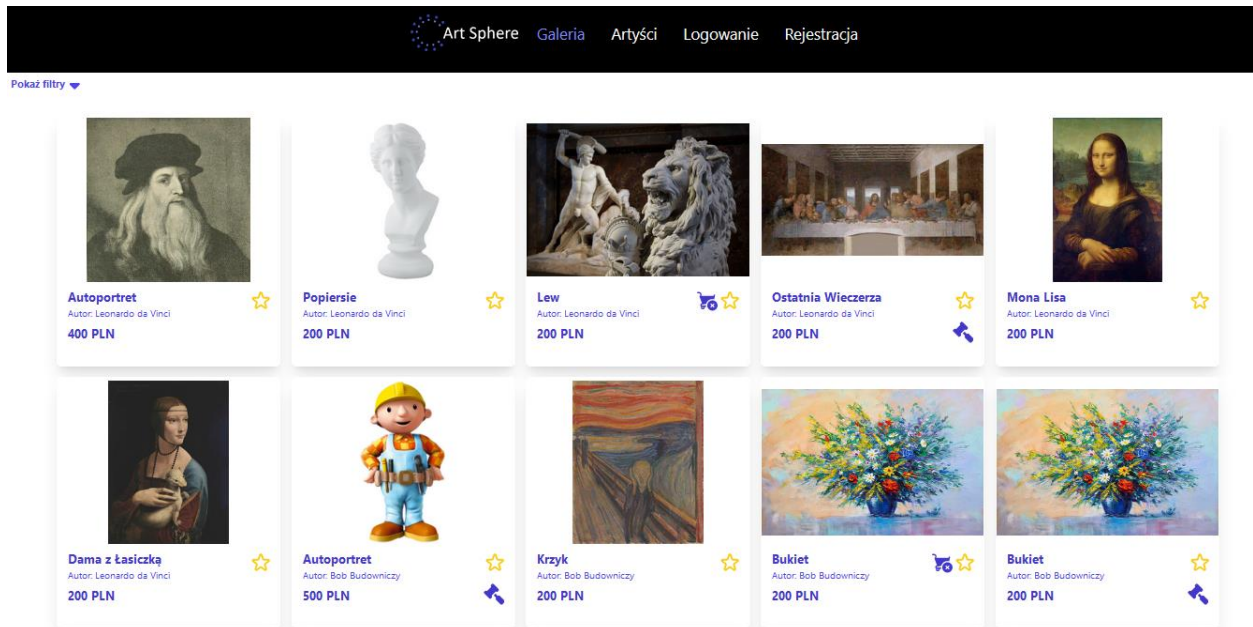
4.2.1 Offer list view

Figure 2 Offer List

Selecting "Galeria" in the navigation bar will take us to a list with the help of which we are able to with the help of which we are able to browse the offers currently on the platform. Above the list of offers there is a "Pokaż filtry" button, which when pressed will bring up a list of filters, their appearance appearance and functionality is described in subsection 4.2.4.

4.2.2 Individual offer

A single offer displayed in the list includes:

- Offer photo
- Title
- Author
- Price
- Visualization of states

The visualization of states is called a set of icons specifying the parameters of a given offer. In Figure 3 below, the first of the offers with the title "Lew" has a crossed-out trash can icon indicating that the offer has been already sold. The second offer has a hammer which suggests that the offer is subject to bidding, it also has no it also does not have the first icon, which means that the bidding is still going on. The third bid has no status icon, which means that it is a fixed-price bid and has not yet been sold. In addition to these two statuses, there is also a whistle on each offer indicating whether the user has the offer in favorites. For non-logged-in users, the star is always unmarked.
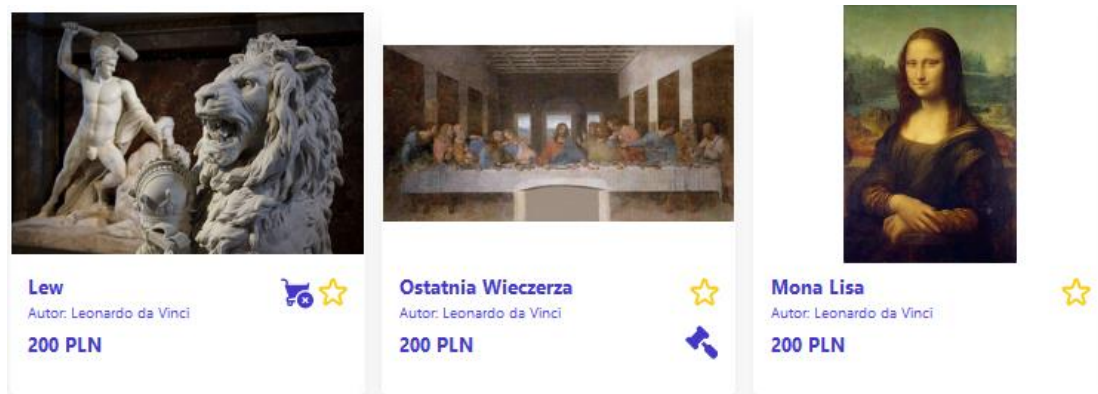
Figure 3 Specification of the elements that make up the individual offer

4.2.3   Pagination

In the case where there are more than 25 offers in the gallery, a segment responsible for pagination of offers will appear at the bottom of the page. Thanks to it, we are able to browse the offers in batches of 25 offers reducing the waiting time for the page to load.
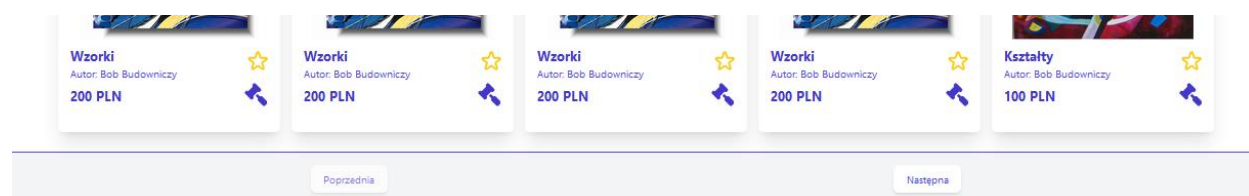

Figure 4 Offer pagination

4.2.4   Filters

Figure 5 Filter system view

The filter system allows the user to select the exact parameters of the offers I would like to list. It has 3 selectable lists: Category, Subjects, Techniques, test search fields by title or artist, as well as numerical value fields specifying the dimensions of the work and its price. The numeric values are presented in the form of set boundaries set when filtering listings. The system also includes a checkbox display archived specifying whether the listings should include those that have already been sold. The search field by tags accepts values separated by commas. The tags will be separated in this way, and passed to the bid filters

in such a way that the bids have at least one of the required tags. The form is validated and does not allow non-numeric values to be entered in numeric fields. Decimal separation is done using a comma.

The "Wyczyść filtry" button will remove the currently defined values and trigger the retrieval of offers without the defined filters. The "Filtruj" button will trigger the retrieval of offers for the defined values of the search parameters.

4.2.5   Offer details
By selecting from the list of offers, we are able to go to the page with the details of a given offer.
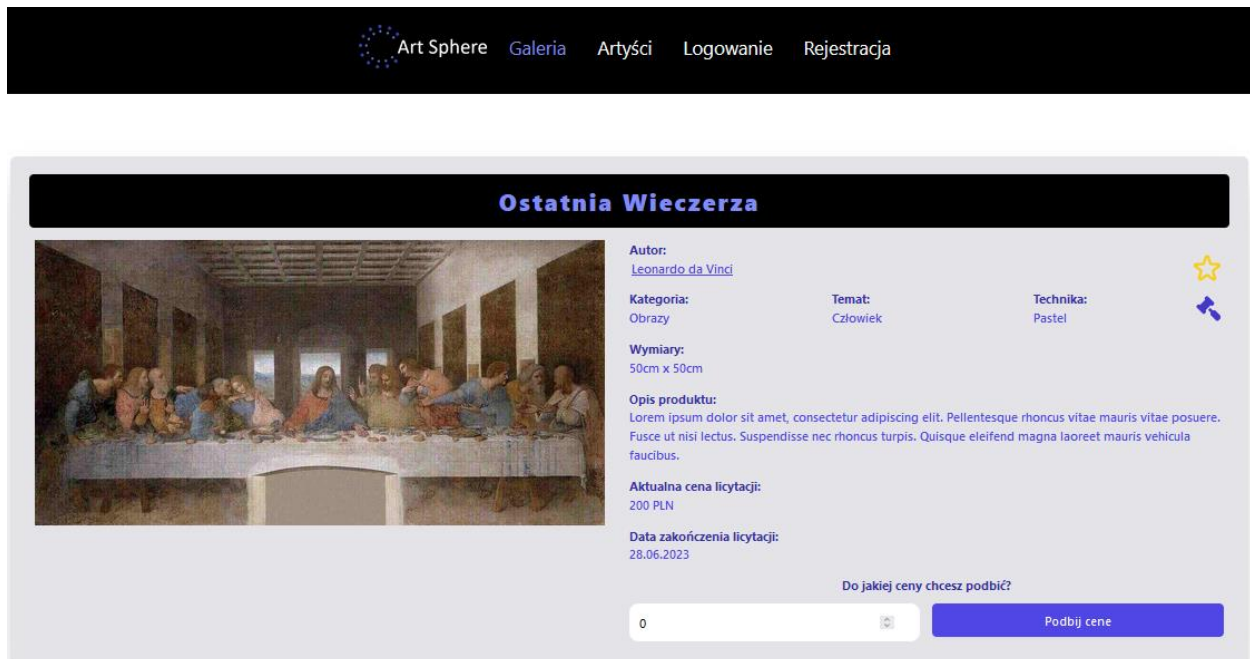
Figure 6 Auction details

This sub-page differs depending on the type of offer we are viewing. In Figure 6, the offer to be displayed is an auction, so its segment responsible for sales has a price boost option.

If a non-logged-in user attempts to raise the price, an error will be reported:
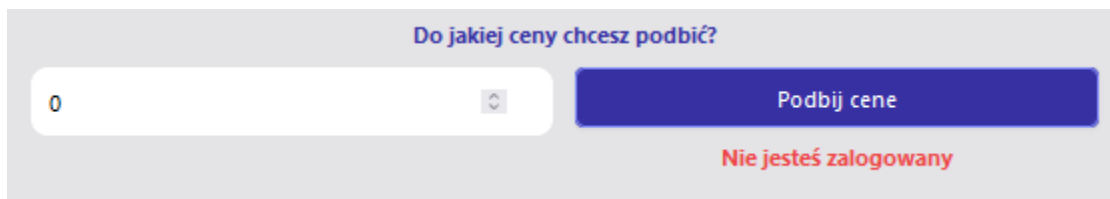
Figure 7 Error - no login when bidding on an offer

When displaying the details of the sale offer, we will also be informed in a similar manner:

Figure 8 Details of sale offer with error of not logged in user when adding to cart

n the case of selecting a sold offer in the place of the possibility of adding to the basket or raising the offer there is a relevant information that the product is no longer available.

Figure 9 Details of unavailable offer

4.3 Artists

4.3.1   Artist list
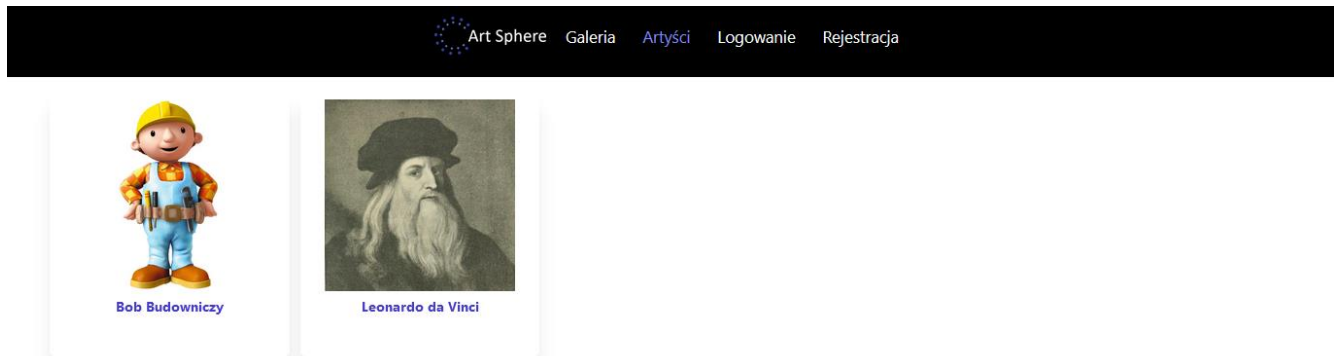
Figure 10 Artist list

Artist list of artist accounts on the platform. In order for an account to be displayed in this list, the artist must define their user photo, and specify a first and last name.

4.3.2   Artist's details

Selecting any item in the artist list will redirect you to a subpage containing details about the artist. Depending on whether the artist has a specific description or not, it will be it will be displayed there. Below the photo and description are the artist's listings. From this list of offers we are able, in a similar way to the list of offers, to enter by clicking on the offer in its details.
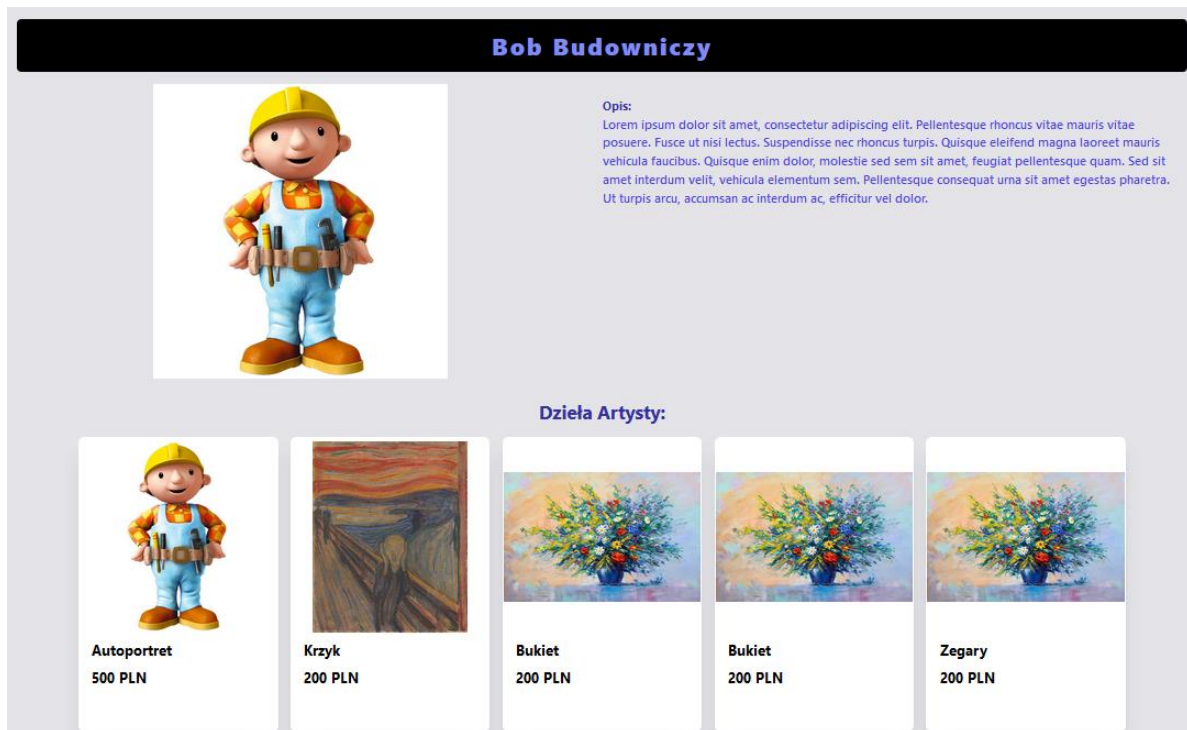
Figure 11 Artist's details

4.4 Registration

4.4.1 Registration form
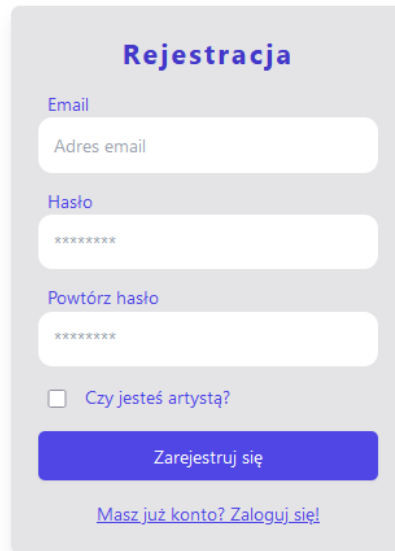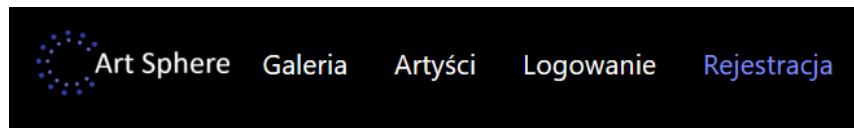
Figure 12 Registration form

The registration form on our site has a simple layout of the fields required for user registration. The basic user identifier on the basis of which the authorization occurs is the user's email address specified in the first field. The address field is validated and requires a text consisting of one character before the "@" sign, at least one character after, and "." And a domain after the period, at least two characters long.
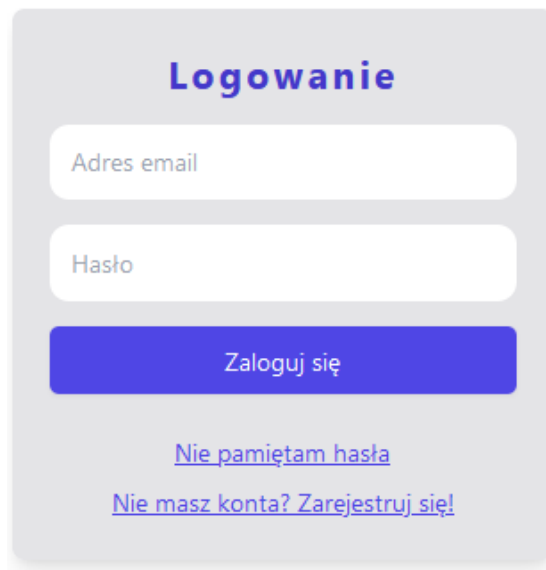
The field responsible for authorization and confirmation of identity during subsequent logins is the password which is also validated and requires at least 8 characters including one uppercase one lowercase and one number.

The checkbox under these fields suggests whether the user created in the registration process is to be defined as an artist on the site or to become a customer. After defining the values, we can confirm the registration by selecting the "Zarejestruj się" button, or proceed to login if a user account was previously created.

After registering, we will be immediately logged in which will redirect us to the user profile page.

4.5 Logging in

4.5.1 Log-in form

Figure 13 Log-in form

After selecting the Login tab, you will be redirected to the login form (Figure 13). The form requires the user to enter their email address, and the password specified during the registration process.

If an invalid password or email address is entered, the login will not be successful and the user will receive a feedback message as follows:

Figure 14 Message about invalid login credentials

4.6 User Profile – Artist

4.6.1   Home page after logging in
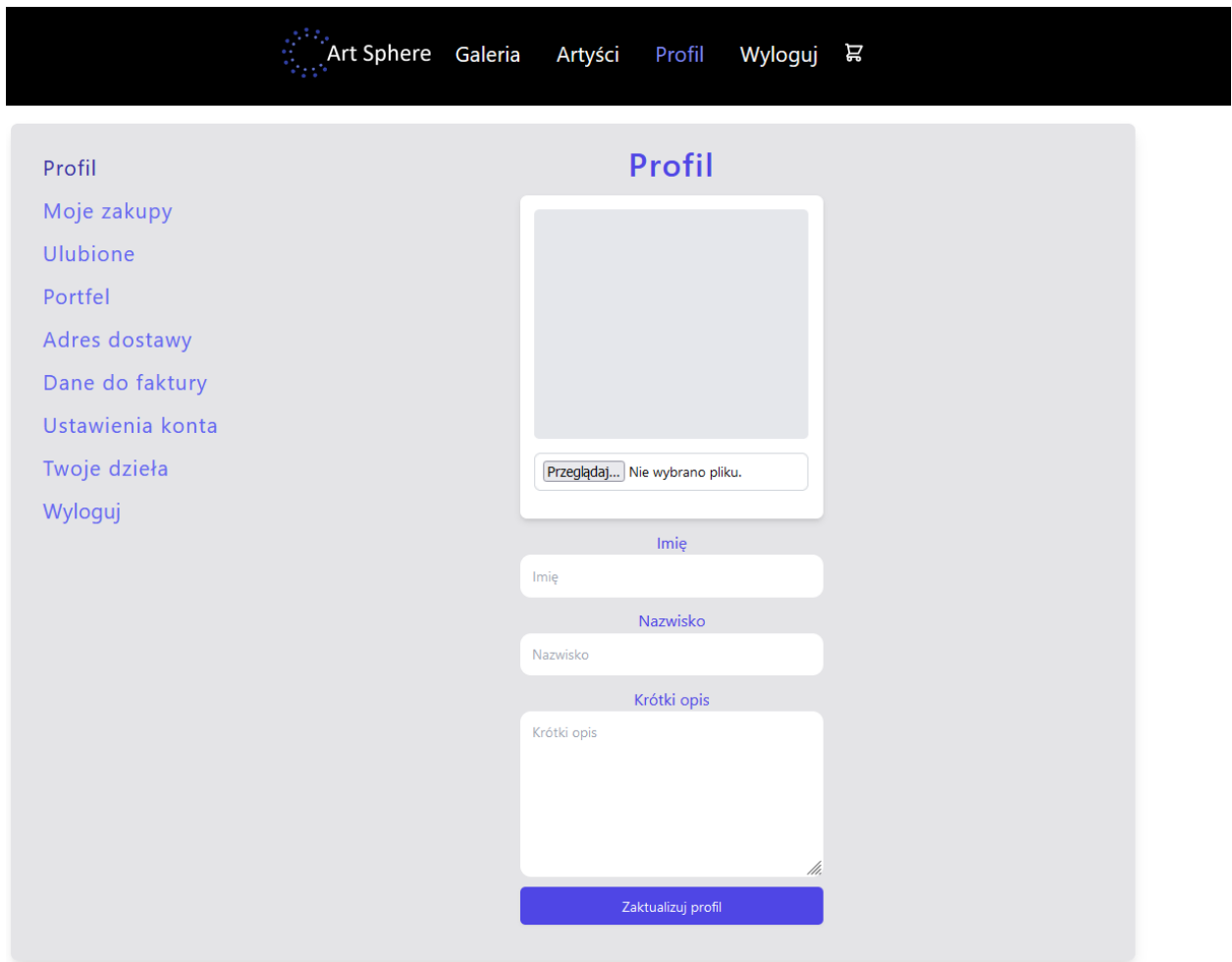
Figure 15 Profile home page after logging into the artist's account

On the main page of the profile, we are able to notice the basic information defined about the artist's account, his profile photo, first name, last name and the description presented in the artist's details. The user's profile picture is selected by clicking on the browse button, we will then be asked to select a file from our computer. After specifying the appropriate fields on the form, we can update the profile by clicking "Zaktualizuj profil".

After logging in, the top navigation bar has also changed, currently in place of login and registration are the "Profil" and "Wyloguj" elements. Profile will redirect us to the page we are on by default after logging in (Figure 15.), "Wyloguj" will log the user out to the main page of the application. The last navigation element which is the shopping cart icon has also been added, it redirects to the shopping cart assigned to the user's account.

4.6.2   User Profile – shopping

The tab shows a list of purchases made.
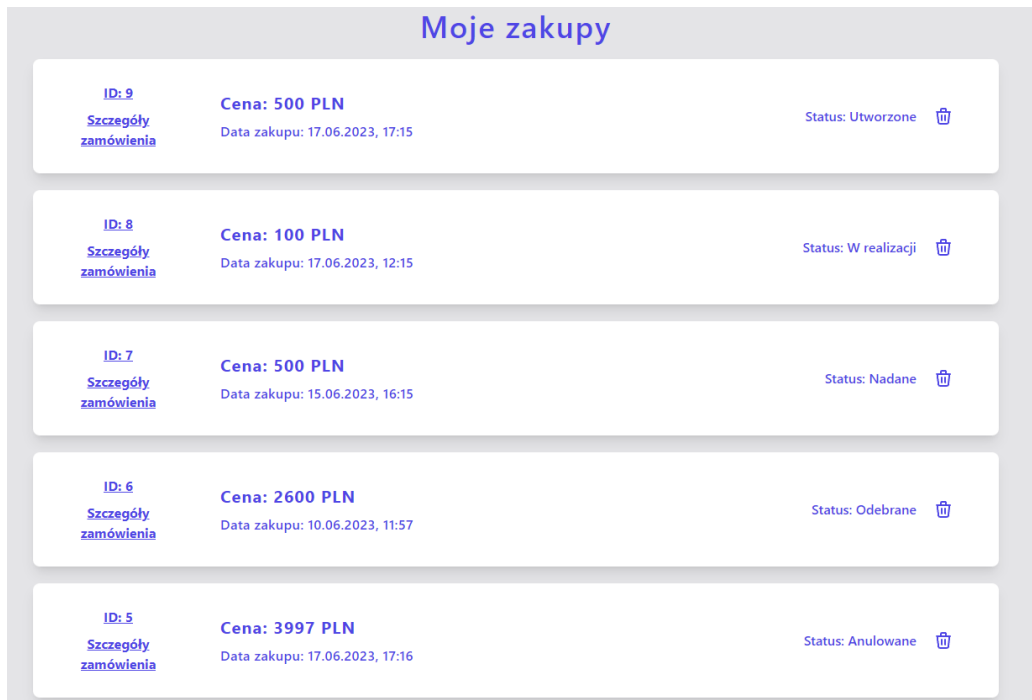
Figure 16 List of purchases made

The list of purchases made shows on all the orders we have placed. The order has information about the order ID number, purchase date, order price and order status. We have the possibility to see five different order statuses:

- Created
- In Realization
- Shipped
- Received
- Cancelled

If the order has a status of "Created" or "In Realization", the user has the option to click the trash icon to cancel the order. If the status is "Shipped" or "Received", it is not possible to cancel the order by clicking the trash icon. If the order is canceled its status changes to "Cancelled". Whenever the trash icon is clicked, the user is informed whether the status of the order has been canceled.
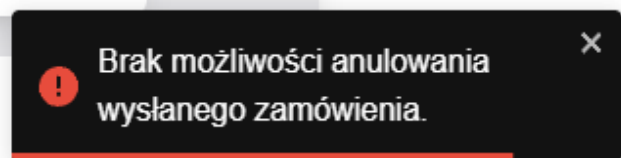
Figure 17 The status of the order has not been changed
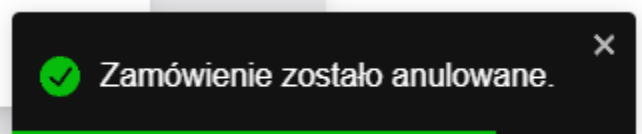
Figure 18 Order status has been changed

Also, the user can see the details of the order after clicking the link „Szczegóły zamówienia"

Figure 19 Order details

When we go to the order details tab, we have listed basic information about the bids included in the order, i.e. the bid photo, bid topic, bid author and bid price. We also have information about the total amount of the order. It is also possible to click on the subject or author of the offer to go to the details of the offer or information about the author.

If no purchases are made, a corresponding message is shown:

Figure 20 No purchases made

4.6.3 User Profile – Favorites

After logging in as a customer of the service, we are able to add offers to favorites. Adding to favorites is done by selecting the star icon in the offer details window 4.2.5. When the icon is clicked, it changes its appearance to full:

The change occurs as follows
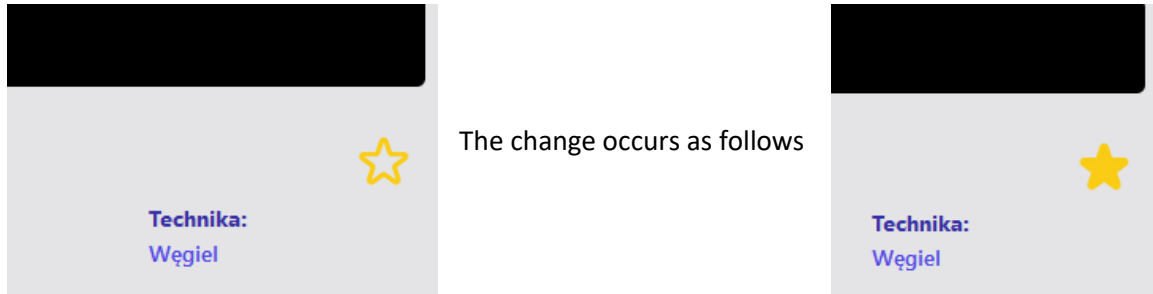
Once an offer is added to favorites, it appears in the favorites tab on the profile page:
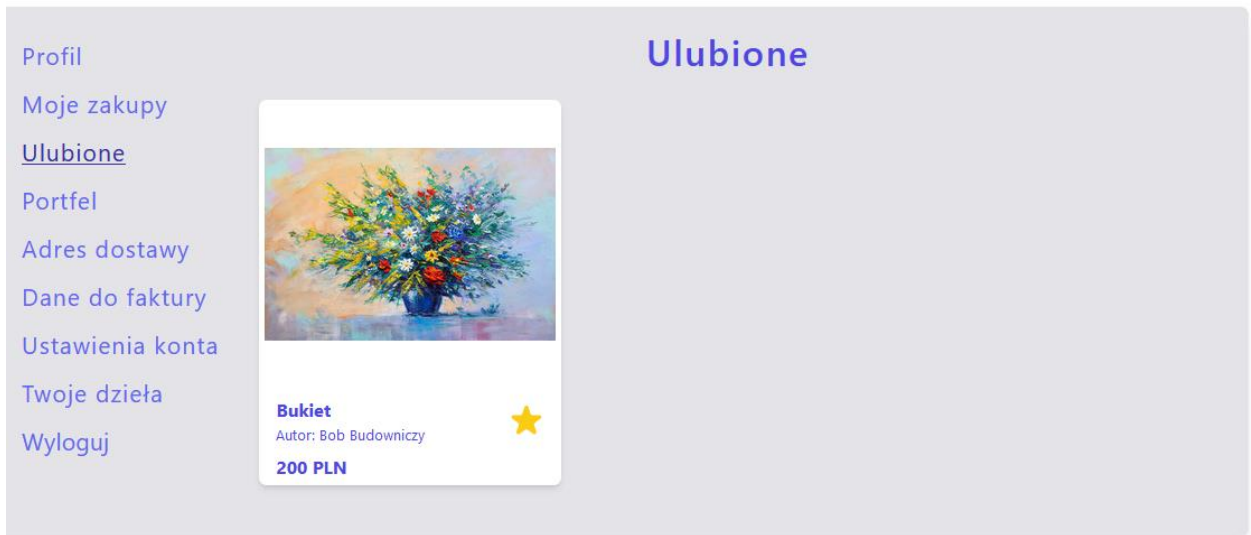
Figure 21 List of favorite offers

4.6.4   User Profile – Wallet

After selecting the wallet tab, we will be redirected to the page for depositing and withdrawing funds to the user's wallet, with these funds in the wallet we are able to bid and make transactions on the platform.
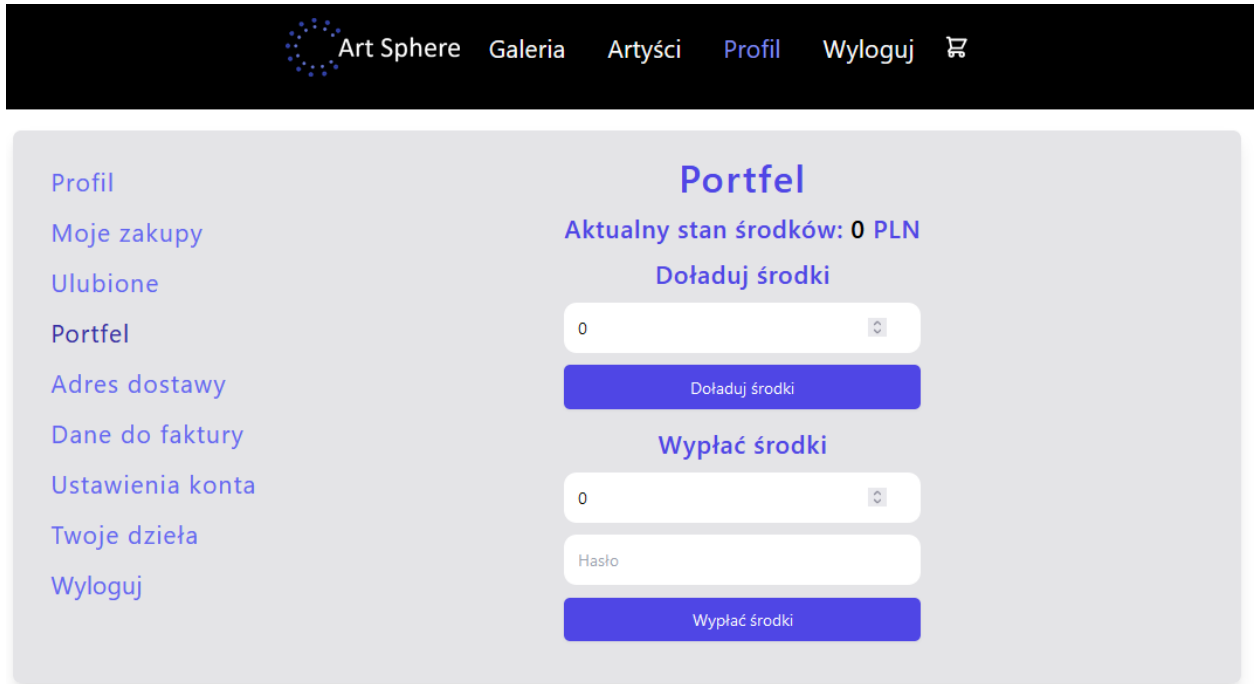
Figure 22 User's wallet

In the tab we are able to verify the current balance of the wallet, deposit funds using the top up funds form and withdraw using the withdrawal form.

The funds are deposited by specifying the amount of the deposit and then clicking the appropriate field of the "Doładuj środki" form. After making the deposit, the balance is increased by the specified amount and the user receives a feedback message with information about the success of the deposit.

Figure 23 Deposit of funds

When trying to withdraw funds, the declared amount is verified against the amount of available money in the wallet which will not allow you to withdraw more funds:

Figure 24 Error - withdrawing too much money

After declaring the correct amount and confirming with a password, the funds are withdrawn from the account and the user is informed as follows:

Figure 25 Confirmation of withdrawal from the account

4.6.5 User Profile – Delivery address

After entering the delivery address tab, the user is taken to a form where he/she has the option to save or edit the information regarding the delivery address in the case of placing an order:

Adres dostawy

Imię	Nazwisko	Numer telefonu
Imię	Nazwisko	Numet telefonu

Ulica	Numer domu	Numer lokalu
Ulica	Numer domu	Numer lokalu

Kod pocztowy	Miasto	Wybierz kraj
Kod pocztowy	Miasto	-

Zapisz dane adresowe

Figure 26 Add/edit delivery address form

Adres dostawy

Imię	Nazwisko	Numer telefonu
Ala	Kociołek	+48123456789

Ulica	Numer domu	Numer lokalu
Kotowa	43	1

Kod pocztowy	Miasto	Wybierz kraj
22-222	Kotowo	Polska

Dane zostały zapisane

Zapisz dane adresowe

Figure 27 Form filled with details of delivery addresses

4.6.6   User Profile – Invoice data

The user has the option when purchasing an order to request an invoice. To add or edit invoice information, go to the invoice data tab:

Figure 28 Form to add/edit invoice data

Figure 29 Form filled with data for invoice

4.6.7   User Profile – Account settings

After entering the account settings tab, the user can change the password, change the email address and can delete the account:

Figure 30 Account settings

To change the password, you need to enter the account's email address, the current password, the new password and repeat the old password. To change the email we need to enter the new email address and the current password of the user account:

Figure 31 Changing the password

Figure 32 Changing the email

In the user settings we also have the option to delete the account by clicking on the button that says "Usuń konto". After deleting the account we will be redirected to the home page and a message will be displayed that the account has been deleted:
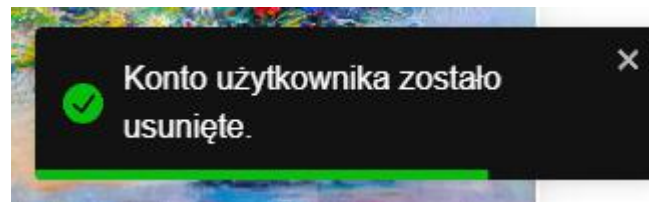
Figure 33 Message confirming account deletion

4.6.8   User Profile – Your artworks

As an artist, we have access to your works tab, where we can see the offers issued by the user and also have the possibility to add an offer:
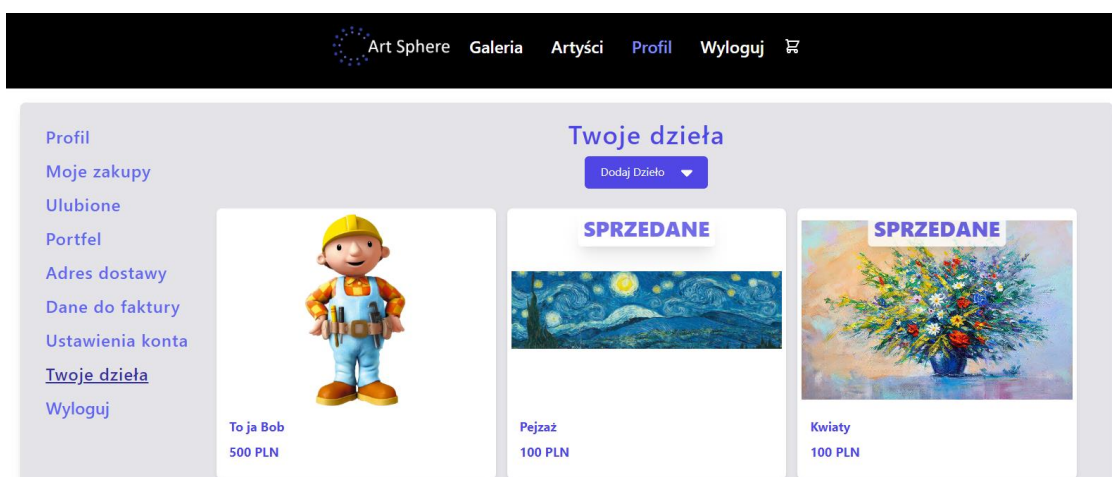
Figure 34 Your artworks

To add a work, press the button labeled "Dodaj Dzieło" which will bring up the form responsible for adding the offer:

Figure 35 Form for adding an offer

In addition to the basic information about the offer in the form, we also have the option to indicate whether the offer is to be a bidding war along with the date of its completion:
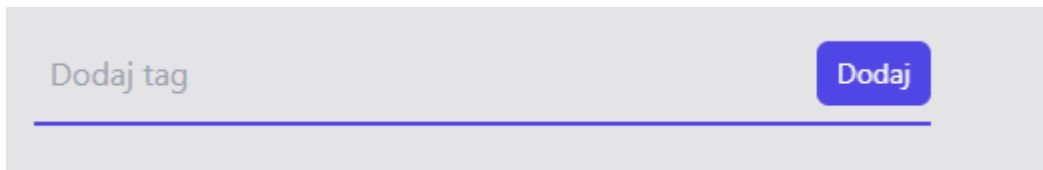
Figure 36 Choosing whether the work is auctioned or not

Also optionally we can add our own tags to the work:

Figure 37 Form to add tags
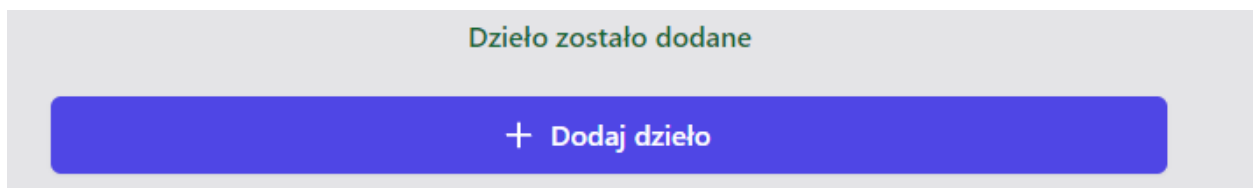
To add a tag, type it in the box that says "Dodaj Tag" and then click the add button:

Figure 38 Example of added tags

We can have multiple tags but each tag must be unique. Also, we can easily delete the tag by clicking the X icon next to the corresponding tag.

Finally, after adding the work, an informative message will be displayed:

Figure 39 Information about the addition of the artwork

In the Your Works tab we can not only add but also edit offers. To do this, click on one of the previously added offers and you will be taken to the form for editing the work:
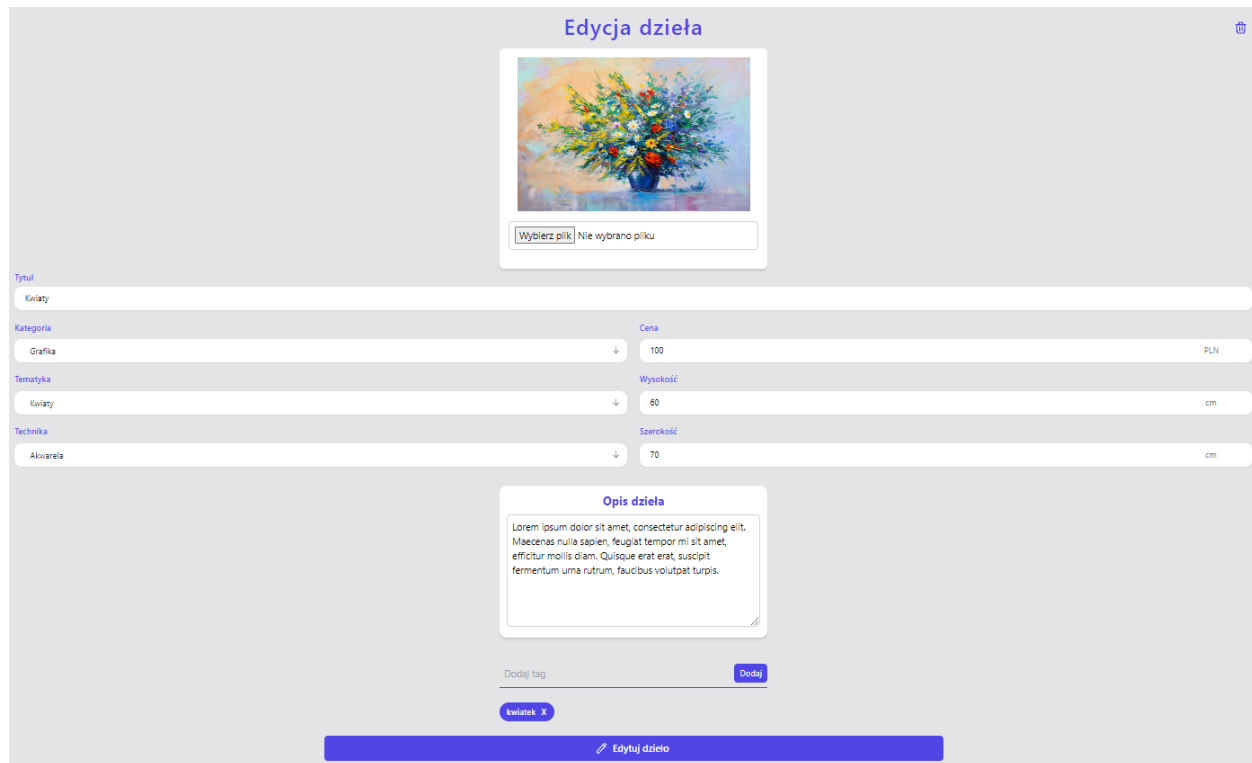
Figure 40 Editing the artwork

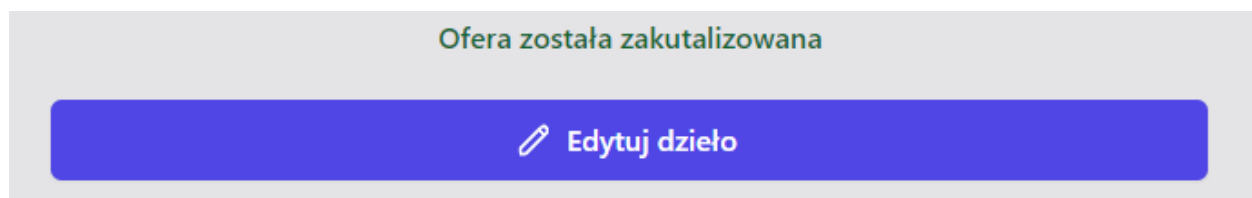After editing the work, we get the appropriate message:

Figure 41 Komunikat edycji dzieła

In the edit works tab, we can also delete the offer by clicking the trash can icon in the upper right corner (Figure 40). Also after deleting the artwork, we will get an appropriate message:
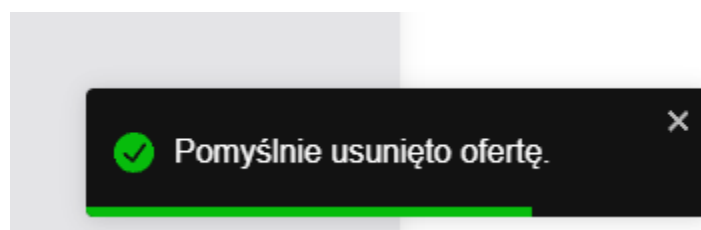

Figure 42 Information about the removal of the offer

If the artwork has been sold or has been auctioned by us an appropriate message is displayed and we do not have the ability to edit that artwork:

Figure 43 Information on whether the bid has been sold or put up for auction

4.7 User Profile – Client

Compared to an artist, as a customer we do not have the ability to add a photo and description of our own profile. We also can't go to your works tab to add artwork. Not counting these two differences, the rest of our capabilities as a customer are the same as with an artist:
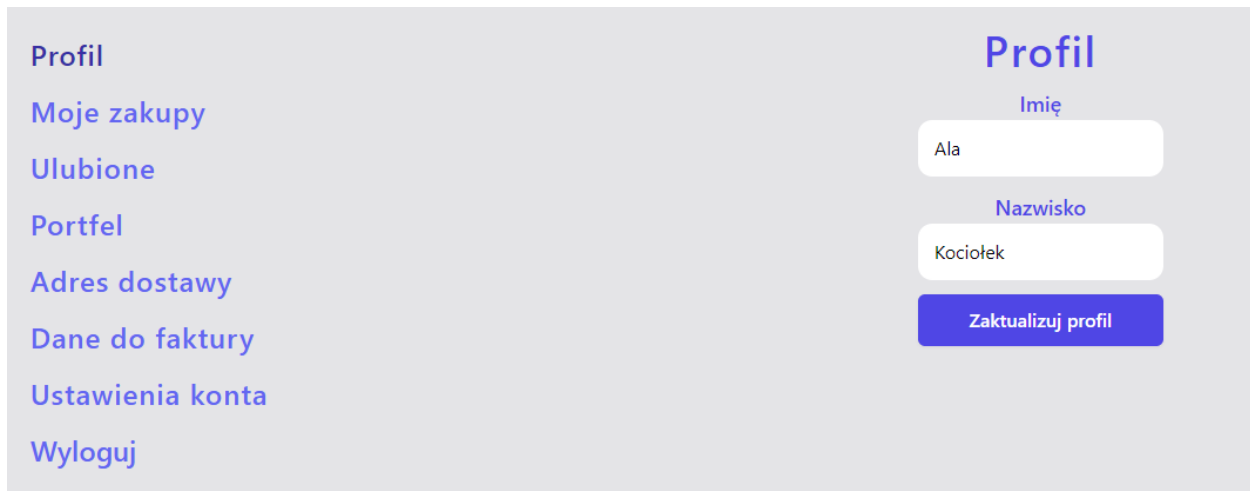
Figure 44 Home page and client navigation menu

4.8 User Profile – Administrator

As an administrator, we do not have access to the your works tab, as it is only available to the artist, but we can access the admin panel tab to approve newly added or edited artist listings:
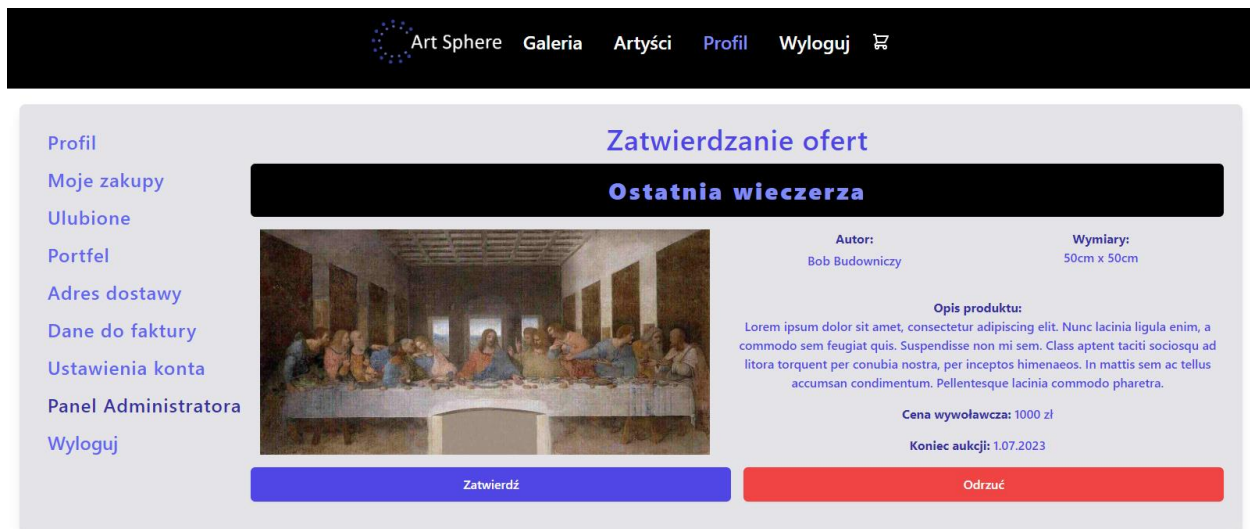
Figure 45 Admin panel

After entering the admin panel tab, we are shown the basic information about the offer waiting for approval(Figure45). To approve we click the "Zatwierdź" button, or we can reject by clicking the "Odrzuć" button.

Figure 46 Admin panel when no offers to approve

4.9 Placing an order

To place an order, we need to be logged in and go to the offer details tab and click the "Dodaj do koszyka" button:

Figure 47 Adding an offer to your cart

Then we will get a message that our offer has been added to the cart and the cart icon will change to full, which means that some works are added to the cart:

          The icon will be changed to this →
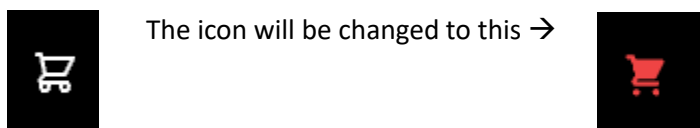
After clicking on the shopping cart icon, we can go to our shopping cart to see what offers are currently added to it:
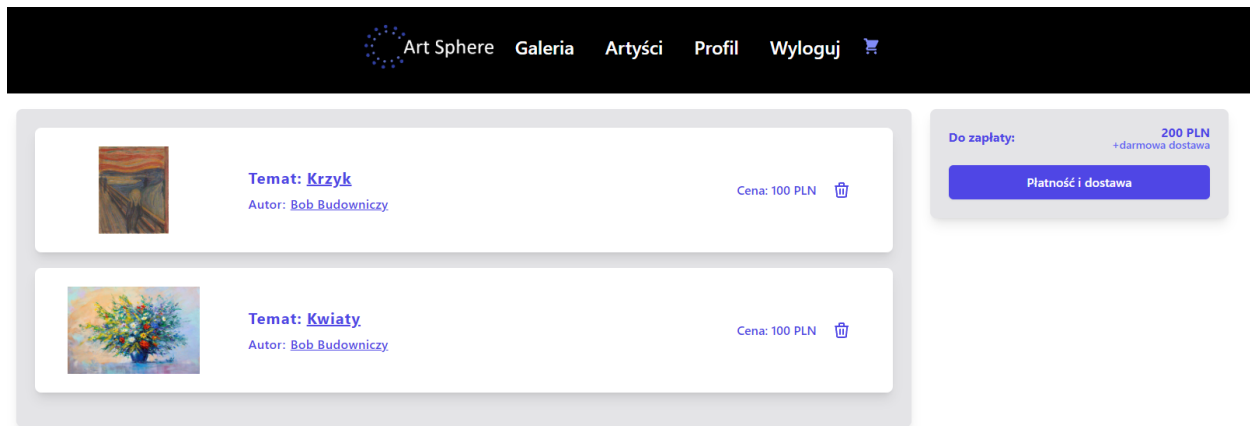
Figure 48 Shopping cart

The shopping cart displays us basic information about each offer, i.e. the offer image, offer subject, offer author, offer price and order total. We also have the option to remove an offer from the shopping cart by clicking the shopping cart icon.

To finalize your order, we need to click on the "Płatność i Dostawa" button to be taken to the next step of ordering:
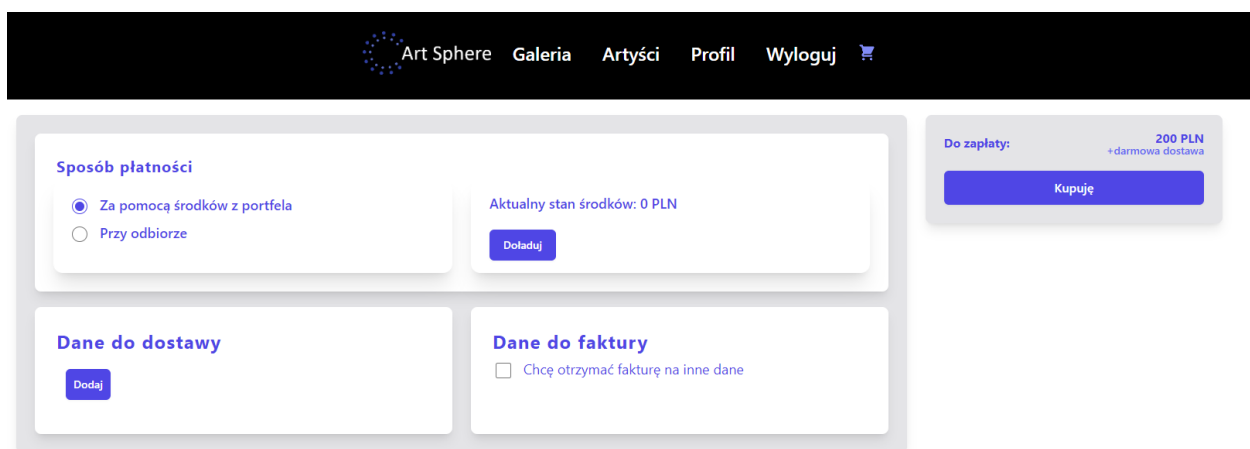
Figure 49 Payment and delivery

When we go to payment and delivery, we have the option to choose payment from two options, i.e. "Za pomocą środków z portfela" or "Przy odbiorze". We also get information about the current balance of funds in the wallet, the saved delivery address or lack thereof, and an optional option to receive an invoice after checking the checkbox.

In order not to go to the profile to fill in the relevant data and funds in the wallet by clicking the appropriate button we can update the relevant data because a form will be displayed that allows us to do so:

Figure 50 Topping up funds

Figure 51 Adding a shipping address

Figure 52 Adding invoice data

The updated information will be displayed in the appropriate places:

Figure 53 Updated information

Finally, all that remains is to click the "Kupuję" button and the order will be placed. Of course, we will be informed of this through an appropriate message:

Figure 54 The order has been completed

Figure 55 Order processing has failed

4.10 Bidding offers

To be able to bid on an offer we need to be logged in and enter the details of the auctioned offer and have sufficient funds in the wallet, as bidding is only possible through them. After entering the details of the bid, all we have to do is enter the appropriate amount greater than the current bid price and click the "Podbij cenę" button:

Figure 56 Bidding on the offer

If we don't have enough funds in our wallet we won't be able to raise the price:

Figure 57 No funds in the wallet