

4. PA: Product and Presentation

PA: Product and Presentation

WeBid is a platform that facilitates bidding and selling between buyers and sellers. We aspire to create an intuitive user interface that makes it simple for users to list items, place bids, and complete transactions. To enhance the auction experience, we'll offer features such as the ability to easily search and browse auctions by price, category, name and also schedule auctions in advance. Additionally, we prioritize the safety and security of our users by implementing robust fraud prevention measures and by having active system managers that will solve any issue an user might have. Our ultimate goal is to create a trusted and reliable marketplace that connects buyers from around the world.

A9: Product

WeBid is an auction online platform where users can buy and sell items and services through an auction process. The website allows users to create an account, list items for sale, and place bids on items they are interested in purchasing. Listing an item up for auction involves setting a starting bid and a time limit, during which other users can place higher bids. When the auction ends, the highest bidder wins the auction and consequently the item.

1. Installation

Source code: <https://git.fe.up.pt/lbaw/lbaw2223/lbaw2225/-/tree/PA>

Command to run: `docker run -it -p 8000:80 --name=lbaw2225 -e DB_DATABASE="lbaw2225" -e DB_SCHEMA="lbaw2225" -e DB_USERNAME="lbaw2225" -e DB_PASSWORD="MfabfwyW" git.fe.up.pt:5050/lbaw/lbaw2223/lbaw2225`

2. Usage

<http://lbaw2225.lbaw.fe.up.pt>

2.1. Administration Credentials

Administration URL: <http://lbaw2225.lbaw.fe.up.pt/admin>

Email	Password
admin@gmail.com	1234

2.2. User Credentials

Type	Email	Password
basic account	cminister1@gmail.com	1234

3. Application Help

The application's design is intuitive and the main CRUD actions are straightforward for the users. Despite this, we implemented ways to use the users experience. Many icons have a label associated to them so it's easier for the users to understand their functionality. Each form has its inputs fields filled with placeholders to better guide the user around correct input. When a user tries to do an action that he doesn't have permissions for an error message is shown, so that he knows what he did wrong. For example, when a costumer tries to put a bid below the current price or bid on his own auction or when an admin tries to delete an active auction (meaning there are bids in it) or when he tries to report/review a user.

Digital Camera

Current Bid: 95€



Time Left:

3 Days 22 Hours 34 Minutes 10 Seconds

Auction Ends:

2023-01-07 17:54:09

There is a minimum increase of 5% for each bid.

The minimum bid amount right now is **97.5€**

Bid price is below minimum!

Your Bid:

90

Bid Now

4. Input Validation

4.1 Client-Side Validation

The validation on the client-side was meant to provide intuitive feedback to the user about the quality and adequacy of the inserted data. Once before submitting data to the server, it is always important to ensure all required form controls are filled out, in the correct format.

```
<div class="form-outline mb-4">
    <input type="text" name="username" id="name" class="form-control form-control-lg" value="{{ old('username') }}" required autofocus>
    <label class="form-label" for="name">Username</label>
    @if ($errors->has('username'))
        <div class="alert alert-danger mb-1.5 mt-1.5">
            <ul>
                <li>{{ $errors->first('username') }}</li>
            </ul>
        </div>
    @endif
</div>
```

4.2 Server-Side Validation

When registering a new account, we check if the input given by the user follows the set of rules defined for each user attribute. For example, the password must have at least 8 characters, an uppercase, a lowercase, 1 digit and a special character.

```
protected function validator(array $data)
{
    return Validator::make($data, [
        'username' => 'required|string|max:30|unique:user',
        'email' => 'required|string|email|max:50|unique:user|unique:systemmanager',
        'firstname' => 'required|string|max:30|alpha_dash',
        'lastname' => 'required|string|max:30|alpha_dash',
        'password' => [
            'required',
            'min:8',
            'confirmed',
            'regex:/^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)(?=.*(_|[^\w]))+$/'
        ]
    ]);
}
```

5. Check Accessibility and Usability

- [Accessibility](#): 15/18
- [Usability](#): 23/28

6. HTML & CSS Validation

HTML

- [Home](#)
- [About](#)
- [FAQ](#)
- [Contact](#)
- [Register](#)
- [Login](#)
- [Recover Password](#)
- [Auction](#)
- [Profile](#)
- [Admin](#)
- [Search](#)
- [Admin Manage](#)
- [Edit Profile](#)

CSS

- [Home](#)
- [About](#)
- [Admin](#)
- [Search](#)
- [Responsive](#)
- [Profile](#)
- [Def](#)
- [Auth](#)
- [Auction](#)

7. Revisions to the Project

Not many changes were made since the requirements specification, but the ones made were: create a new BanAppeals, Migrations & Password_Resets Table and added remember token to the User Table.

8. Web Resources Specification

8.1. [Open Api - Repository File](#)

```
openapi: 3.0.0

info:
  version: '1.0'
  title: 'WeBid'
  description: 'Web Resources Specification (A7) for WeBid'

servers:
  - url: http://lbaw.fe.up.pt
    description: Production server

externalDocs:
  description: Find more info here.
  url: https://web.fe.up.pt/~ssn/wiki/teach/lbaw/medialib/a07

tags:
  - name: 'M01: Authentication and Individual Profile'
  - name: 'M02: Auctions'
  - name: 'M03: Bidding'
  - name: 'M04: Search Api And Search Pages'
  - name: 'M05: User Administration and Static pages'
  - name: 'M06: User To User Interactions and Notifications'

paths:
```

```
/login:
get:
  operationId: 'R101'
  summary: 'R101: Login Form'
  description: 'Provide login form. Access: PUB'
  tags:
    - 'M01: Authentication and Individual Profile'
  responses:
    '200':
      description: 'OK. Show Login form UI'
post:
  operationId: 'R102'
  summary: 'R102: Login Action'
  description: 'Process login form. Access: PUB'
  tags:
    - 'M01: Authentication and Individual Profile'
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            email:
              type: string
            password:
              type: string
        required:
          - email
          - password
  responses:
    '302':
      description: 'Redirect after processing the login credentials.'
      headers:
        Location:
          schema:
            type: string
      examples:
        302Success:
          description: 'Successful authentication. Redirect to Home page.'
          value: '/'
        302Error:
          description: 'Failed authentication. Redirect to login form.'
          value: '/login'
/logout:
post:
  operationId: 'R103'
  summary: 'R103: Logout Action'
  description: 'Process logout action of current authenticated user. Access: USR, ADM'
  tags:
    - 'M01: Authentication and Individual Profile'
  responses:
    '302':
      description: 'Redirect after processing logout.'
      headers:
        Location:
          schema:
            type: string
      examples:
        302Success:
          description: 'Successful logout. Redirect to Home Page.'
          value: '/login'
/register:
get:
  operationId: 'R104'
  summary: 'R104: Register Form'
```

```

description: 'Provide new user register form. Access: PUB'
tags:
- 'M01: Authentication and Individual Profile'
responses:
'200':
  description: 'OK. Show Register form UI'
post:
  operationId: 'R105'
  summary: 'R105: Register Action'
  description: 'Process new user register form. Access: PUB'
  tags:
- 'M01: Authentication and Individual Profile'
requestBody:
  required: true
  content:
    application/x-www-form-urlencoded:
      schema:
        type: object
        properties:
          username:
            type: string
          email:
            type: string
          password:
            type: string
          firstname:
            type: string
          lastname:
            type: string
        required:
- username
- email
- password
- firstname
- lastname
responses:
'302':
  description: 'Redirect after processing new user information.'
  headers:
    Location:
      schema:
        type: string
  examples:
    302Success:
      description: 'Successful registration. Redirect to Home page.'
      value: '/'
    302Error:
      description: 'Failed registration. Redirect to register form.'
      value: '/register'
/profile/{username}:
get:
  operationId: 'R106'
  summary: 'R106: View User Profile Page'
  description: 'Show the User profile. Access: PUB'
  tags:
- 'M01: Authentication and Individual Profile'
parameters:
- in: path
  name: username
  description: 'Username of the user to show the profile.'
  required: true
  schema:
    type: string
responses:
'200':
  description: 'OK. Show Profile page UI'
  headers:

```

```

Location:
schema:
  type: string
examples:
  200Authenticated:
    description: 'If user the user that is being viewed is Authenticated. View full User Profile.'
    value: '/users/{username}'
  302Unauthenticated:
    description: 'If user the user that is being viewed is not Authenticated. View partial User Profile.'
    value: '/users/{username}'
/profile/{username}/mydetails:
get:
  operationId: 'R107'
  summary: 'R107: Edit User Profile Form'
  description: 'Provide edit user profile form. Access: USR, ADM'
  tags:
    - 'M01: Authentication and Individual Profile'
parameters:
  - in: path
    name: username
    description: 'Username of the user to show the profile.'
    required: true
    schema:
      type: string
responses:
  '200':
    description: 'OK. Show Edit Profile form UI'
put:
  operationId: 'R108'
  summary: 'R108: Edit User Profile Action'
  description: 'Process edit user profile form. Access: USR, ADM'
  tags:
    - 'M01: Authentication and Individual Profile'
parameters:
  - in: path
    name: username
    description: 'Username of the user to show the profile.'
    required: true
    schema:
      type: string
requestBody:
  required: true
  content:
    application/x-www-form-urlencoded:
      schema:
        type: object
        properties:
          username:
            type: string
          email:
            type: string
          firstname:
            type: string
          lastname:
            type: string
          phonenumbers:
            type: string
        required:
          - username
          - email
          - password
          - firstname
          - lastname
          - phonenumbers
responses:
  '302':
    description: 'Redirect after processing edit user profile information.'

```

```
headers:
  Location:
    schema:
      type: string
examples:
  302Success:
    description: 'Successful edit. Redirect to User Profile page.'
    value: '/profile/{username}'
  302Error:
    description: 'Failed edit. Redirect to Edit Profile form.'
    value: '/profile/{username}/mydetails'

/profile/{username}/mypassword:
  put:
    operationId: 'R109'
    summary: 'R109: Edit User Password Action'
    description: 'Process edit user password form. Access: USR, ADM'
    tags:
      - 'M01: Authentication and Individual Profile'
    parameters:
      - in: path
        name: username
        description: 'Username of the user to show the profile.'
        required: true
        schema:
          type: string
    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object
            properties:
              password:
                type: string
              newPassword:
                type: string
              newPasswordConfirmation:
                type: string
            required:
              - password
              - newPassword
              - newPasswordConfirmation
    responses:
      '302':
        description: 'Redirect after processing edit user password information.'
        headers:
          Location:
            schema:
              type: string
examples:
  302Success:
    description: 'Successful edit. Redirect to User Profile page.'
    value: '/profile/{username}'
  302Error:
    description: 'Failed edit. Redirect to Edit Profile form.'
    value: '/profile/{username}/mydetails'

/profile/{username}/balance:
  get:
    operationId: 'R110'
    summary: 'R110: View User Balance'
    description: 'Show the User balance. Access: USR, ADM'
    tags:
      - 'M01: Authentication and Individual Profile'
    parameters:
      - in: path
```

```

name: username
description: 'Username of the user to show the profile.'
required: true
schema:
  type: string
responses:
  '200':
    description: 'OK. Show Balance page UI'
post:
  operationId: 'R111'
  summary: 'R111: Add User Balance'
  description: 'Add balance to the User. Access: USR, ADM'
  tags:
    - 'M01: Authentication and Individual Profile'
  parameters:
    - in: path
      name: username
      description: 'Username of the user to show the profile.'
      required: true
      schema:
        type: string
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            amount:
              type: number
              required:
                - amount
  responses:
    '302':
      description: 'Redirect after processing add balance.'
      headers:
        Location:
          schema:
            type: string
      examples:
        302Success:
          description: 'Successful add balance. Redirect to Balance page.'
          value: '/profile/{username}/balance'
        302Error:
          description: 'Failed add balance. Redirect to Balance page.'
          value: '/profile/{username}/balance'

/profile/{username}/myauctions:
get:
  operationId: 'R112'
  summary: 'R112: View User Auctions'
  description: 'Show the User auctions. Access: USR, ADM'
  tags:
    - 'M01: Authentication and Individual Profile'
  parameters:
    - in: path
      name: username
      description: 'Username of the user to show the profile.'
      required: true
      schema:
        type: string
  responses:
    '200':
      description: 'OK. Show Auctions page UI'
/profile/{username}/mybids:
get:
  operationId: 'R113'

```

```

summary: 'R113: View User Bids'
description: 'Show the User bids. Access: USR, ADM'
tags:
  - 'M01: Authentication and Individual Profile'
parameters:
  - in: path
    name: username
    description: 'Username of the user to show the profile.'
    required: true
    schema:
      type: string
responses:
  '200':
    description: 'OK. Show Bids page UI'
/profile/{username}/myfavourites:
get:
  operationId: 'R114'
  summary: 'R114: View User Favourites'
  description: 'Show the User favourites. Access: USR, ADM'
  tags:
    - 'M01: Authentication and Individual Profile'
parameters:
  - in: path
    name: username
    description: 'Username of the user to show the profile.'
    required: true
    schema:
      type: string
responses:
  '200':
    description: 'OK. Show Favourites page UI'
/profile/{username}/mywins:
get:
  operationId: 'R115'
  summary: 'R115: View User Wins'
  description: 'Show the User wins. Access: USR, ADM'
  tags:
    - 'M01: Authentication and Individual Profile'
parameters:
  - in: path
    name: username
    description: 'Username of the user to show the profile.'
    required: true
    schema:
      type: string
responses:
  '200':
    description: 'OK. Show Wins page UI'
/forgot-password:
get:
  operationId: 'R116'
  summary: 'R116: Forgot Password'
  description: 'Show the Forgot Password form. Access: PUB'
  tags:
    - 'M01: Authentication and Individual Profile'
responses:
  '200':
    description: 'OK. Show Forgot Password form UI'
post:
  operationId: 'R117'
  summary: 'R117: Forgot Password'
  description: 'Process the Forgot Password form. Access: PUB'
  tags:
    - 'M01: Authentication and Individual Profile'
requestBody:
  required: true
  content:

```

```
application/x-www-form-urlencoded:
schema:
  type: object
  properties:
    username:
      type: string
    required:
      - email
responses:
  '302':
    description: 'Redirect after processing Forgot Password form.'
    headers:
      Location:
        schema:
          type: string
    examples:
      302Success:
        description: 'Successful Forgot Password. Redirect to Login page.'
        value: '/login'
      302Error:
        description: 'Failed Forgot Password. Redirect to Forgot Password form.'
        value: '/forgot-password'
/reset-password/{token}:
get:
  operationId: 'R118'
  summary: 'R118: Reset Password'
  description: 'Show the Reset Password form. Access: PUB'
  tags:
    - 'M01: Authentication and Individual Profile'
  parameters:
    - in: path
      name: token
      description: 'Token of the user to reset the password.'
      required: true
      schema:
        type: string
  responses:
    '200':
      description: 'OK. Show Reset Password form UI'
post:
  operationId: 'R119'
  summary: 'R119: Reset Password'
  description: 'Process the Reset Password form. Access: PUB'
  tags:
    - 'M01: Authentication and Individual Profile'
  parameters:
    - in: path
      name: token
      description: 'Token of the user to reset the password.'
      required: true
      schema:
        type: string
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            password:
              type: string
            password2:
              type: string
          required:
            - password
            - password2
  responses:
```

```

'302':
  description: 'Redirect after processing Reset Password form.'
  headers:
    Location:
      schema:
        type: string
  examples:
    302Success:
      description: 'Successful Reset Password. Redirect to Login page.'
      value: '/login'
    302Error:
      description: 'Failed Reset Password. Redirect to Reset Password form.'
      value: '/reset-password/{token}'

/auction/{id}:
  get:
    operationId: 'R201'
    summary: 'R201: View Auction'
    description: 'Show the Auction details. Access: PUB'
    tags:
      - 'M02: Auctions'
    parameters:
      - in: path
        name: id
        description: 'ID of the auction to show.'
        required: true
        schema:
          type: string
    responses:
      '200':
        description: 'OK. Show Auction page UI'

  post:
    operationId: 'R301'
    summary: 'R301: Add a Bid'
    description: 'Bid on a certain Auction as a authenticated user'
    tags:
      - 'M03: Bidding'
    parameters:
      - in: path
        name: id
        description: 'ID of the auction to show.'
        required: true
        schema:
          type: string
    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object
            properties:
              amount:
                type: number
              id:
                type: number
            required:
              - amount
              - id
    responses:
      '302':
        description: 'Redirect after processing Bid on Auction.'
        headers:
          Location:
            schema:
              type: string
        examples:
          302Success:
            description: 'Successful bid. Redirect to Auction details.'

```

```

        value: '/auction/{id}'

302Error:
    description: 'Failed edit. Redirect to Auction details.'
    value: '/auction/{id}'


delete:
    operationId: 'R202'
    summary: 'R202: Delete Auction Action'
    description: 'Process delete Auction form. Access: USR, ADM'
    tags:
        - 'M02: Auctions'
    parameters:
        - in: path
          name: id
          description: 'ID of the auction to show.'
          required: true
          schema:
            type: string
    responses:
        '302':
            description: 'Redirect after processing Auction Delete.'
            headers:
                Location:
                    schema:
                        type: string
            examples:
                302Success:
                    description: 'Successful Delete. Redirect to Home page.'
                    value: '/'
        '403':
            description: 'Forbidden. Redirect to Home page.'
            headers:
                Location:
                    schema:
                        type: string
            examples:
                403Error:
                    description: 'Forbidden. Redirect to Home page.'
                    value: '/'


/auction/{id}/edit:
put:
    operationId: 'R203'
    summary: 'R203: Update Auction Action'
    description: 'Process edit Auction form. Access: USR, ADM'
    tags:
        - 'M02: Auctions'
    parameters:
        - in: path
          name: id
          description: 'ID of the auction to show.'
          required: true
          schema:
            type: string
    requestBody:
        required: true
        content:
            application/x-www-form-urlencoded:
                schema:
                    type: object
                    properties:
                        name:
                            type: string
                        idcategory:
                            type: number
                        description:
                            type: string

```

```

startingprice:
  type: number
currentprice:
  type: number
enddate:
  type: string
required:
- name
- idcategory
- description
- startingprice
- currentprice
- enddate
responses:
'302':
  description: 'Redirect after processing Auction Form.'
  headers:
    Location:
      schema:
        type: string
  examples:
    302Success:
      description: 'Successful Update. Redirect to Auction details.'
      value: '/auction/{id}'
    302Error:
      description: 'Failed Update. Redirect to Auction details.'
      value: '/auction/{id}'
'403':
  description: 'Forbidden. Redirect to Home page.'
  headers:
    Location:
      schema:
        type: string
  examples:
    403Error:
      description: 'Forbidden. Redirect to Home page.'
      value: '/'
get:
  operationId: 'R204'
  summary: 'R204: Edit Auction Form'
  description: 'Show the Auction edit form. Access: USR, ADM'
  tags:
  - 'M02: Auctions'
  parameters:
  - in: path
    name: id
    description: 'ID of the auction to show.'
    required: true
    schema:
      type: string
  responses:
    '200':
      description: 'OK. Show Auction Edit page UI'

/auction/create:
get:
  operationId: 'R205'
  summary: 'R205: Create Auction Form'
  description: 'Show the Auction create form. Access: USR, ADM'
  tags:
  - 'M02: Auctions'
  responses:
    '200':
      description: 'OK. Show Auction Create page UI'

/auction:
post:

```

```

operationId: 'R206'
summary: 'R206: Create Auction Action'
description: 'Process create Auction form. Access: USR, ADM'
tags:
  - 'M02: Auctions'
requestBody:
  required: true
  content:
    application/x-www-form-urlencoded:
      schema:
        type: object
        properties:
          name:
            type: string
          idcategory:
            type: number
          description:
            type: string
          startingprice:
            type: number
          currentprice:
            type: number
          enddate:
            type: string
      required:
        - name
        - idcategory
        - description
        - startingprice
        - currentprice
        - enddate
responses:
  '302':
    description: 'Redirect after processing Auction Form.'
    headers:
      Location:
        schema:
          type: string
    examples:
      302Success:
        description: 'Successful Create. Redirect to Auction details.'
        value: '/auction/{id}'
      302Error:
        description: 'Failed Create. Redirect to Auction details.'
        value: '/auction/{id}'
  '403':
    description: 'Forbidden. Redirect to Home page.'
    headers:
      Location:
        schema:
          type: string
    examples:
      403Error:
        description: 'Forbidden. Redirect to Home page.'
        value: '/'
/readnotification:
post:
  operationId: 'R207'
  summary: 'R207: Read Notification Action'
  description: 'Process read Notification form. Access: USR, ADM'
  tags:
    - 'M02: Auctions'
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:

```

```

type: object
properties:
  idnotification:
    type: number
  required:
    - idnotification
responses:
  '302':
    description: 'Notification Form.'
    headers:
      Location:
        schema:
          type: string

  '403':
    description: 'Forbidden.'

/profile/{id}/createReview:
post:
  operationId: 'R208'
  summary: 'R208: Create Review Action'
  description: 'Process create Review form. Access: USR, ADM'
  tags:
    - 'M02: Auctions'
  parameters:
    - in: path
      name: id
      description: 'ID of the user to show.'
      required: true
      schema:
        type: string
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            iduser:
              type: number
            idauction:
              type: number
            rating:
              type: number
            comment:
              type: string
          required:
            - iduser
            - idauction
            - rating
            - comment
  responses:
    '302':
      description: 'Redirect after processing Review Form.'
      headers:
        Location:
          schema:
            type: string
      examples:
        302Success:
          description: 'Successful Create. Redirect to Auction details.'
          value: '/auction/{id}'
        302Error:
          description: 'Failed Create. Redirect to Auction details.'
          value: '/auction/{id}'

  '403':
    description: 'Forbidden. Redirect to Home page.'
    headers:

```

```

Location:
schema:
  type: string
examples:
  403Error:
    description: 'Forbidden. Redirect to Home page.'
    value: '/'
/profile/{id}/createReport:
post:
  operationId: 'R209'
  summary: 'R209: Create Report Action'
  description: 'Process create Report form. Access: USR, ADM'
  tags:
    - 'M02: Auctions'
  parameters:
    - in: path
      name: id
      description: 'ID of the user to show.'
      required: true
      schema:
        type: string
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            iduser:
              type: number
            idauction:
              type: number
            reason:
              type: string
            required:
              - iduser
              - idauction
              - reason
  responses:
    '302':
      description: 'Redirect after processing Report Form.'
      headers:
        Location:
        schema:
          type: string
      examples:
        302Success:
          description: 'Successful Create. Redirect to Auction details.'
          value: '/auction/{id}'
        302Error:
          description: 'Failed Create. Redirect to Auction details.'
          value: '/auction/{id}'
    '403':
      description: 'Forbidden. Redirect to Home page.'
      headers:
        Location:
        schema:
          type: string
      examples:
        403Error:
          description: 'Forbidden. Redirect to Home page.'
          value: '/'
/auction/{id}/createReport:
post:
  operationId: 'R210'
  summary: 'R210: Create Report Action'
  description: 'Process create Report form. Access: USR, ADM'

```

```

tags:
- 'M02: Auctions'

parameters:
- in: path
  name: id
  description: 'ID of the auction to show.'
  required: true
  schema:
    type: string

requestBody:
  required: true
  content:
    application/x-www-form-urlencoded:
      schema:
        type: object
        properties:
          iduser:
            type: number
          idauction:
            type: number
          reason:
            type: string
        required:
          - iduser
          - idauction
          - reason

responses:
'302':
  description: 'Redirect after processing Report Form.'
  headers:
    Location:
      schema:
        type: string
  examples:
    302Success:
      description: 'Successful Create. Redirect to Auction details.'
      value: '/auction/{id}'
    302Error:
      description: 'Failed Create. Redirect to Auction details.'
      value: '/auction/{id}'

'403':
  description: 'Forbidden. Redirect to Home page.'
  headers:
    Location:
      schema:
        type: string
  examples:
    403Error:
      description: 'Forbidden. Redirect to Home page.'
      value: '/'

/auction/{id}/favorite:
post:
  operationId: 'R211'
  summary: 'R211: Favorite Auction Action'
  description: 'Process favorite Auction form. Access: USR, ADM'
  tags:
- 'M02: Auctions'

parameters:
- in: path
  name: id
  description: 'ID of the auction to show.'
  required: true
  schema:
    type: string

requestBody:
  required: true
  content:

```

```

application/x-www-form-urlencoded:
  schema:
    type: object
    properties:
      iduser:
        type: number
      idauction:
        type: number
    required:
      - iduser
      - idauction
  responses:
    '302':
      description: 'Redirect after processing Favorite Auction Form.'
      headers:
        Location:
          schema:
            type: string
      examples:
        302Success:
          description: 'Successful Create. Redirect to Auction details.'
          value: '/auction/{id}'
        302Error:
          description: 'Failed Create. Redirect to Auction details.'
          value: '/auction/{id}'
    '403':
      description: 'Forbidden. Redirect to Home page.'
      headers:
        Location:
          schema:
            type: string
      examples:
        403Error:
          description: 'Forbidden. Redirect to Home page.'
          value: '/'
/search:
  get:
    operationId: 'R401'
    summary: 'R401: Search Page'
    description: 'Show the Search page. Access: PUB'
    tags:
      - 'M04: Search Api And Search Pages'
    parameters:
      - in: query
        name: query_search
        description: 'Search query.'
        required: false
        schema:
          type: string
      - in: query
        name: category
        description: 'Auction Category.'
        required: false
        schema:
          type: number
    responses:
      '200':
        description: 'OK. Show Search page UI'
/search/api:
  get:
    operationId: 'R402'
    summary: 'R402: Search Auctions Api'
    description: 'Search Auctions and returns result as JSON. Access: PUB'
    tags:
      - 'M04: Search Api And Search Pages'
    parameters:
      - in: query

```

```

name: query_search
description: 'Search query.'
required: false
schema:
  type: string
- in: query
  name: category
  description: 'Auction Category.'
  required: false
  schema:
    type: number
responses:
  '200':
    description: 'Success'
    content:
      application/json:
        schema:
          type: array
          items:
            type: object
            properties:
              idauction:
                type: number
              name:
                type: string
              startdate:
                type: string
              enddate:
                type: string
              startingprice:
                type: number
              currentprice:
                type: number
              description:
                type: string
              isover:
                type: boolean
              idcategory:
                type: number
              idowner:
                type: number
              tsvectors:
                type: string
        example:
          - idauction: 11
          - name: 'Camera'
          - startdate: '2022-10-02T10:18:06.000000Z'
          - enddate: '2022-11-21T13:35:09.000000Z'
          - startingprice: 50
          - currentprice: 50
          - description: 'Polaroid i20X29 20.0MP Digital Camera'
          - isover: false
          - idcategory: 7
          - idowner: 10
          - tsvectors: "20.0":4B "camera":1A,7B "digit":6B "i20x29":3B "mp":5B "polaroid":2B"
/search/auction/api:
get:
  operationId: 'R403'
  summary: 'R403: Search Auctions Api'
  description: 'Search Auctions and returns result as JSON. Access: PUB'
  tags:
    - 'M04: Search Api And Search Pages'
parameters:
  - in: query
    name: query_search
    description: 'Search query.'
    required: false

```

```

schema:
  type: string
responses:
  '200':
    description: 'Success'
    content:
      application/json:
        schema:
          type: array
          items:
            type: object
            properties:
              idauction:
                type: number
              name:
                type: string
              startdate:
                type: string
              enddate:
                type: string
              startingprice:
                type: number
              currentprice:
                type: number
              description:
                type: string
              isover:
                type: boolean
              idcategory:
                type: number
              idowner:
                type: number
              tsvectors:
                type: string
example:
  - idauction: 11
  - name: 'Camera'
  - startdate: '2022-10-02T10:18:06.000000Z'
  - enddate: '2022-11-21T13:35:09.000000Z'
  - startingprice: 50
  - currentprice: 50
  - description: 'Polaroid i20X29 20.0MP Digital Camera'
  - isover: false
  - idcategory: 7
  - idowner: 10
  - tsvectors: "20.0":4B 'camera':1A,7B 'digit':6B 'i20x29':3B 'mp':5B 'polaroid':2B"

```

```

/search/{category}:
get:
  operationId: 'R404'
  summary: 'R404: Search Page with filter'
  description: 'Show the Search page for a specific Category. Access: PUB'
  tags:
    - 'M04: Search Api And Search Pages'
parameters:
  - in: query
    name: query_search
    description: 'Search query.'
    required: false
    schema:
      type: string
  - in: path
    name: category
    description: 'Auction Category.'
    required: true
    schema:
      type: number

```

```

responses:
  '200':
    description: 'OK. Show Search page UI'

/search/user/api:
get:
  operationId: 'R405'
  summary: 'R405: Search Users Api'
  description: 'Search Users and returns result as JSON. Access: PUB'
  tags:
    - 'M04: Search Api And Search Pages'
  parameters:
    - in: query
      name: query_search
      description: 'Search query.'
      required: false
      schema:
        type: string
  responses:
    '200':
      description: 'Success'
      content:
        application/json:
          schema:
            type: array
            items:
              type: object
              properties:
                idclient:
                  type: number
                username:
                  type: string
                email:
                  type: string
                firstname:
                  type: string
                lastname:
                  type: string
                address:
                  type: string
                phonenumer:
                  type: string
                isbanned:
                  type: boolean
                balance:
                  type: number
              example:
                - idclient: 1
                - username: 'cminister0'
                - email: 'cminister0'
                - firstname: 'Constantina'
                - lastname: 'Minister'
                - address: '42749 Holmberg Trail'
                - phonenumer: '2516074366'
                - isbanned: false
                - balance: 0
/admin:
get:
  operationId: 'R501'
  summary: 'R501: Admin Page'
  description: 'Show the Admin page. Access: ADM'
  tags:
    - 'M05: User Administration and Static pages'
  responses:
    '200':
      description: 'OK. Show Admin page UI'
    '403':

```

```
    description: 'Forbidden. User is not an Admin.'
/admin/users:
get:
  operationId: 'R502'
  summary: 'R502: Admin Users Page'
  description: 'Show the Admin Users page. Access: ADM'
  tags:
    - 'M05: User Administration and Static pages'
responses:
  '200':
    description: 'OK. Show Admin Users page UI'
  '403':
    description: 'Forbidden. User is not an Admin.'
/admin/createuser:
get:
  operationId: 'R503'
  summary: 'R503: Admin Create User Page'
  description: 'Show the Admin Create User page. Access: ADM'
  tags:
    - 'M05: User Administration and Static pages'
responses:
  '200':
    description: 'OK. Show Admin Create User page UI'
  '403':
    description: 'Forbidden. User is not an Admin.'
/admin/auctions:
get:
  operationId: 'R504'
  summary: 'R504: Admin Auctions Page'
  description: 'Show the Admin Auctions page. Access: ADM'
  tags:
    - 'M05: User Administration and Static pages'
responses:
  '200':
    description: 'OK. Show Admin Auctions page UI'
  '403':
    description: 'Forbidden. User is not an Admin.'
/admin/bids:
get:
  operationId: 'R505'
  summary: 'R505: Admin Bids Page'
  description: 'Show the Admin Bids page. Access: ADM'
  tags:
    - 'M05: User Administration and Static pages'
responses:
  '200':
    description: 'OK. Show Admin Bids page UI'
  '403':
    description: 'Forbidden. User is not an Admin.'
/profile/{username}/edit:
get:
  operationId: 'R506'
  summary: 'R601: Edit User Profile Page'
  description: 'Show the Admin Edit User Profile page. Access: ADM'
  tags:
    - 'M05: User Administration and Static pages'
parameters:
  - in: path
    name: username
    description: 'Username of the user.'
    required: true
    schema:
      type: string
responses:
  '200':
    description: 'OK. Show Edit Profile page UI'
  '403':
```

```

    description: 'Forbidden. User is not an admin.'
/admin/users/{id}:
delete:
  operationId: 'R507'
  summary: 'R507: Delete User Action'
  description: 'Delete a User. Access: ADM'
  tags:
    - 'M05: User Administration and Static pages'
parameters:
  - in: path
    name: id
    description: 'ID of the user.'
    required: true
    schema:
      type: number
responses:
  '302':
    description: 'Redirect after processing Auction Form.'
    headers:
      Location:
        schema:
          type: string
    examples:
      302Success:
        description: 'Successful Delete. Redirect to Admin user Page.'
        value: '/admin/users'
      302Error:
        description: 'Failed Delete. Redirect to admin user details.'
        value: '/admin/users'
  '403':
    description: 'Forbidden. User is not an admin.'
/AboutUs:
get:
  operationId: 'R508'
  summary: 'R508: View About Page'
  description: 'View the About Page. Access: PUB'
  tags:
    - 'M05: User Administration and Static pages'
responses:
  '200':
    description: 'Ok. Show'
/ContactUs:
get:
  operationId: 'R509'
  summary: 'R509: View Contact Page'
  description: 'View the Contact Page. Access: PUB'
  tags:
    - 'M05: User Administration and Static pages'
responses:
  '200':
    description: 'Ok. Show'
/FAQs:
get:
  operationId: 'R510'
  summary: 'R510: View FAQ Page'
  description: 'View the FAQ Page. Access: PUB'
  tags:
    - 'M05: User Administration and Static pages'
responses:
  '200':
    description: 'Ok. Show'
/admin/logs:
get:
  operationId: 'R511'
  summary: 'R511: View Logs Page'

```

```

description: 'View the Logs Page. Access: ADM'
tags:
- 'M05: User Administration and Static pages'
responses:
'200':
  description: 'Ok. Show'
'403':
  description: 'Forbidden. User is not an admin.'
/admin/sellerreports:
get:
  operationId: 'R512'
  summary: 'R512: View Seller Reports Page'
  description: 'View the Seller Reports Page. Access: ADM'
  tags:
- 'M05: User Administration and Static pages'
responses:
'200':
  description: 'Ok. Show'
'403':
  description: 'Forbidden. User is not an admin.'
/admin/auctionreports:
get:
  operationId: 'R513'
  summary: 'R513: View Auction Reports Page'
  description: 'View the Auction Reports Page. Access: ADM'
  tags:
- 'M05: User Administration and Static pages'
responses:
'200':
  description: 'Ok. Show'
'403':
  description: 'Forbidden. User is not an admin.'
/admin/sellerreports/{id}:
put:
  operationId: 'R514'
  summary: 'R514: Update Seller Report Action'
  description: 'Update a Seller Report. Access: ADM'
  tags:
- 'M05: User Administration and Static pages'
parameters:
- in: path
  name: id
  description: 'ID of the seller report.'
  required: true
  schema:
    type: number
responses:
'302':
  description: 'Redirect after processing Admin Report Form.'
  headers:
    Location:
      schema:
        type: string
  examples:
    302Success:
      description: 'Successful Update. Redirect to Admin Seller Reports Page.'
      value: '/admin/sellerreports'
    302Error:
      description: 'Failed Update. Redirect to admin seller report details.'
      value: '/admin/sellerreports'
'403':
  description: 'Forbidden. User is not an admin.'
/admin/auctionreports/{id}:
put:
  operationId: 'R515'
  summary: 'R515: Update Auction Report Action'
  description: 'Update an Auction Report. Access: ADM'

```

```

tags:
- 'M05: User Administration and Static pages'

parameters:
- in: path
  name: id
  description: 'ID of the auction report.'
  required: true
  schema:
    type: number

responses:
'302':
  description: 'Redirect after processing Admin Report Form.'
  headers:
    Location:
      schema:
        type: string
  examples:
    302Success:
      description: 'Successful Update. Redirect to Admin Auction Reports Page.'
      value: '/admin/auctionreports'
    302Error:
      description: 'Failed Update. Redirect to admin auction report details.'
      value: '/admin/auctionreports'

'403':
  description: 'Forbidden. User is not an admin.'

/admin/banappeals:
get:
  operationId: 'R516'
  summary: 'R516: View Ban Appeals Page'
  description: 'View the Ban Appeals Page. Access: ADM'
  tags:
    - 'M05: User Administration and Static pages'

responses:
'200':
  description: 'Ok. Show'
'403':
  description: 'Forbidden. User is not an admin.'

/admin/ban/{id}:
put:
  operationId: 'R517'
  summary: 'R517: Update Ban Appeal Action'
  description: 'Update a Ban Appeal. Access: ADM'
  tags:
    - 'M05: User Administration and Static pages'

parameters:
- in: path
  name: id
  description: 'ID of the user.'
  required: true
  schema:
    type: number

responses:
'302':
  description: 'Redirect after processing Admin Ban Appeal Form.'
  headers:
    Location:
      schema:
        type: string
  examples:
    302Success:
      description: 'Successful Update. Redirect to Admin Ban Appeals Page.'
      value: '/admin/banappeals'
    302Error:
      description: 'Failed Update. Redirect to admin ban appeal details.'
      value: '/admin/banappeals'

'403':
  description: 'Forbidden. User is not an admin.'

```

```
/admin/unban/{id}/{idbanappeal}:
  put:
    operationId: 'R518'
    summary: 'R518: Update Unban Appeal Action'
    description: 'Update an Unban Appeal. Access: ADM'
    tags:
      - 'M05: User Administration and Static pages'
    parameters:
      - in: path
        name: id
        description: 'ID of the user appeal.'
        required: true
        schema:
          type: number
      - in: path
        name: idbanappeal
        description: 'ID of the ban appeal.'
        required: true
        schema:
          type: number
    responses:
      '302':
        description: 'Redirect after processing Admin Unban Appeal Form.'
        headers:
          Location:
            schema:
              type: string
        examples:
          302Success:
            description: 'Successful Update. Redirect to Admin Ban Appeals Page.'
            value: '/admin/banappeals'
          302Error:
            description: 'Failed Update. Redirect to admin ban appeal details.'
            value: '/admin/banappeals'
      '403':
        description: 'Forbidden. User is not an admin.'
/admin/rejectAppeal/{id}:
  delete:
    operationId: 'R519'
    summary: 'R519: Reject Ban Appeal Action'
    description: 'Reject a Ban Appeal. Access: ADM'
    tags:
      - 'M05: User Administration and Static pages'
    parameters:
      - in: path
        name: id
        description: 'ID of the Ban Appeal.'
        required: true
        schema:
          type: number
    responses:
      '302':
        description: 'Redirect after processing Admin Ban Appeal Form.'
        headers:
          Location:
            schema:
              type: string
        examples:
          302Success:
            description: 'Successful Update. Redirect to Admin Ban Appeals Page.'
            value: '/admin/banappeals'
          302Error:
            description: 'Failed Update. Redirect to admin ban appeal details.'
            value: '/admin/banappeals'
      '403':
        description: 'Forbidden. User is not an admin.'
/BanAppeal:
```

```

get:
  operationId: 'R520'
  summary: 'R520: View Ban Appeal Page'
  description: 'View the Ban Appeal Page. Access: USR'
  tags:
    - 'M05: User Administration and Static pages'
  responses:
    '200':
      description: 'Ok. Show'

/profile/{username}/review:
get:
  operationId: 'R601'
  summary: 'R601: Review User Profile Page'
  description: 'Show the Review User Profile page. Access: PUB'
  tags:
    - 'M06: User To User Interactions and Notifications'
  parameters:
    - in: path
      name: username
      description: 'Username of the user.'
      required: true
      schema:
        type: string
  responses:
    '200':
      description: 'OK. Show Review Profile page UI'

post:
  operationId: 'R602'
  summary: 'R602: Review User Action'
  description: 'Review a User. Access: USR'
  tags:
    - 'M06: User To User Interactions and Notifications'
  parameters:
    - in: path
      name: username
      description: 'Username of the user.'
      required: true
      schema:
        type: string
  requestBody:
    description: 'Review Form'
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            rating:
              type: number
              description: 'Rating of the user.'
              minimum: 1
              maximum: 5
            review:
              type: string
              description: 'Review of the user.'
            iduserreviewer:
              type: number
              description: 'ID of the user reviewer.'
            iduserreviewed:
              type: number
              description: 'ID of the user reviewed.'
            required:
              - rating
              - review
  examples:
    ReviewForm:
      value:

```

```

        rating: 5
        review: 'Great seller!'
        iduserreviewer: 1
        iduserreviewed: 2

responses:
  '302':
    description: 'Redirect after processing Review Form.'
    headers:
      Location:
    schema:
      type: string
    examples:
      302Success:
        description: 'Successful Review. Redirect to Review Profile Page.'
        value: '/profile/{username}/review'
      302Error:
        description: 'Failed Review. Redirect to Review Profile Page.'
        value: '/profile/{username}/review'

  '403':
    description: 'Forbidden. User is not logged in.'

/profile/{username}/report:
get:
  operationId: 'R603'
  summary: 'R603: Report User Profile Page'
  description: 'Show the Report User Profile page. Access: PUB'
  tags:
    - 'M06: User To User Interactions and Notifications'
  parameters:
    - in: path
      name: username
      description: 'Username of the user.'
      required: true
      schema:
        type: string
  responses:
    '200':
      description: 'OK. Show Report Profile page UI'

post:
  operationId: 'R604'
  summary: 'R604: Report User Action'
  description: 'Report a User. Access: USR'
  tags:
    - 'M06: User To User Interactions and Notifications'
  parameters:
    - in: path
      name: username
      description: 'Username of the user.'
      required: true
      schema:
        type: string
  requestBody:
    description: 'Report Form'
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            review:
              type: string
              description: 'Review of the user.'
            idseller:
              type: number
              description: 'ID of the seller.'
            idreporter:
              type: number
              description: 'ID of the reporter.'

```

```

required:
  - rating
  - review
examples:
  ReviewForm:
    value:
      review: 'Worst seller!'
      idseller: 1
      idreporter: 2
responses:
  '302':
    description: 'Redirect after processing Report Form.'
    headers:
      Location:
        schema:
          type: string
    examples:
      302Success:
        description: 'Successful Report. Redirect to Report Profile Page.'
        value: '/profile/{username}/report'
      302Error:
        description: 'Failed Report. Redirect to Report Profile Page.'
        value: '/profile/{username}/report'
  '403':
    description: 'Forbidden. User is not logged in.'

/profile/{username}/notification:
get:
  operationId: 'R605'
  summary: 'R605: User Notification Json'
  description: 'Get the User Notification Json. Access: USR'
  tags:
    - 'M06: User To User Interactions and Notifications'
parameters:
  - in: path
    name: username
    description: 'Username of the user.'
    required: true
    schema:
      type: string
responses:
  '200':
    description: 'Success'
    content:
      application/json:
        schema:
          type: array
          items:
            type: object
            properties:
              idnotification:
                type: number
              content:
                type: string
              isread:
                type: boolean
              idclient:
                type: number
        example:
          - idnotification: 1
          - content: 'You have a new review!'
          - isread: false
          - idclient: 1
/profile/{username}/favorites:
get:
  operationId: 'R606'
  summary: 'R606: Favorites User Profile Page'

```

```

description: 'Show the Favorites User Profile page. Access: USR, ADM'
tags:
- 'M06: User To User Interactions and Notifications'
parameters:
- in: path
  name: username
  description: 'Username of the user.'
  required: true
  schema:
    type: string
responses:
'200':
  description: 'OK. Show Favorites Profile page UI'
'403':
  description: 'Forbidden. User is not logged in.'

```

9. Implementation Details

9.1. Libraries Used

The libraries we used were:

- [Bootstrap](#) - Used sometimes instead of CSS for quick element styling.
- [FontAwesome](#) - For every icon in the website.

9.2 User Stories

US Identifier	Name	Module	Priority	Team Members	State
US01	View Users Profile	Module 01	High	João Oliveira	100%
US02	Search Auctions	Module 04	High	Diogo Babo , Ricardo Cavalheiro	100%
US03	View Active Auctions	Module 02	High	Ricardo Cavalheiro	100%
US04	View Own Profile	Module 01	High	João Oliveira	100%
US05	View Home Page	Module 04	High	Diogo Babo , João Oliveira	100%
US06	View Auction Info	Module 02	High	João Oliveira	100%
US07	Sign In	Module 01	High	Ricardo Cavalheiro	100%
US08	Sign Up	Module 01	High	Gustavo Costa	100%
US09	Sign Out	Module 01	High	Gustavo Costa	100%
US10	Edit Profile	Module 01	High	Diogo Babo , Gustavo Costa	100%
US11	Bid on Auction	Module 03	High	Ricardo Cavalheiro	100%
US12	Create Auction	Module 02	High	Gustavo Costa	100%
US13	View Auction Bidding History	Module 03	High	Ricardo Cavalheiro	100%
US14	View My Auctions	Module 02	High	João Oliveira	100%
US15	Edit Auction	Module 02	High	João Oliveira Diogo Babo	100%
US16	Cancel Auction	Module 02	High	Gustavo Costa	100%
US17	Manage Accounts	Module 05	High	Diogo Babo Gustavo Costa	100%
US18	Password Recovery	Module 01	Medium	Gustavo Costa	100%
US19	Browse Auctions by Category	Module 02	Medium	Diogo Babo	100%
US20	Contextual Errors	All	Medium	Diogo Babo	100%
US21	Contextual Help	All	Medium	Diogo Babo	100%

US Identifier	Name	Module	Priority	Team Members	State
US22	View About Us	Module 05	Medium	Ricardo Cavalheiro	100%
US23	View Contacts	Module 05	Medium	João Oliveira	100%
US24	View FAQ	Module 05	Medium	Gustavo Costa	100%
US25	Filtered Search	Module 02	Medium	Diogo Babo	100%
US26	Multiple Attribute Search	Module 02	Medium	Diogo Babo	100%
US27	Input Placeholders	All	Medium	Gustavo Costa	100%
US28	View Seller Rating	Module 01	Medium	João Oliveira	100%
US29	View Notifications	Module 06	Medium	João Oliveira	100%
US30	Support Profile Picture	Module 01	Medium	Ricardo Cavalheiro	100%
US31	Follow Auction	Module 02	Medium	Ricardo Cavalheiro	100%
US32	View Followed Auctions	Module 01	Medium	Ricardo Cavalheiro	100%
US33	View Bidding History	Module 01	Medium	Gustavo Costa	100%
US34	Add Credit to Account	Module 01	Medium	Ricardo Cavalheiro	100%
US35	Delete Account	Module 01	Medium	Gustavo Costa	100%
US36	Put a New Bid on Auction	Module 04	Medium	Ricardo Cavalheiro	100%
US37	Confirm Bid Popup	Module 04	Medium	João Oliveira	100%
US38	Rate Seller	Module 06	Medium	Diogo Babo	100%
US39	Partaking Auction Won Notification	Module 06	Medium	Diogo Babo	100%
US40	Partaking Auction Ending Notification	Module 06	Medium	Diogo Babo	100%
US41	Partaking Auction Ended Notification	Module 06	Medium	João Oliveira	100%
US42	Partaking Auction Canceled Notification	Module 06	Medium	João Oliveira	100%
US43	Owned Auction Ending Notification	Module 06	Medium	Ricardo Cavalheiro	100%
US44	Owned Auction Ended Notification	Module 06	Medium	Gustavo Costa	100%
US45	Owned Auction Canceled Notification	Module 06	Medium	Ricardo Cavalheiro	100%
US46	Block and Unblock Accounts	Module 05	Medium	Gustavo Costa	100%
US47	Delete User Accounts	Module 05	Medium	Gustavo Costa	100%
US48	Manage Auctions	Module 05	Medium	João Oliveira	100%
US49	Cancel Auctions	Module 05	Medium	Ricardo Cavalheiro	100%
US50	Ordering Results	Module 02	Low	Diogo Babo	100%
US51	Report Auction	Module 02	Low	João Oliveira	100%
US52	Appeal for Unblock	Module 01	Low	Gustavo Costa	100%
US53	Manage Auction Reports	Module 05	Low	Ricardo Cavalheiro	100%
US54	User Search	Module 05	Low	Diogo Babo	100%
US55	See Blocked User List	Module 05	Low	Ricardo Cavalheiro	100%
US56	See Active Reports	Module 05	Low	João Oliveira	100%

US Identifier	Name	Module	Priority	Team Members	State
US57	See Closed Reports	Module 05	Low	João Oliveira	100%
US58	Change Report Status	Module 05	Low	Diogo Babo	100%

A10: Presentation

1. Product presentation

WeBid is an online auction platform where users can buy and sell items and services. The website allows users to create an account, list items for sale, and place bids on items they are interested in purchasing. Listing an item up for auction involves setting a starting bid and a time limit, during which other users can place higher bids. When the auction ends, the highest bidder wins the auction and acquires the item.

Users have different ways of searching and browsing the different auctions, they can follow certain auctions they have interest in and there is a notification system to alert users of when they get outbid or when they win an auction. In order to make sellers trustworthy there is a review/report system that affects their own rating as well as an admin dashboard to ease system managers job when moderating the website.

Website URL: <http://lbaw2225.lbaw.fe.up.pt>

2. Video presentation

https://drive.google.com/drive/u/3/folders/1-fPoSR3lXyPl38UgpWf6iQBe2Lk_ckoT

Revision history

GROUP2225, 03/01/2023

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