**A7: High-level architecture. Privileges. Web resources specification**

This artefact contains BidBay’s modules, user privileges, our URL structure and the specification of out web API.

**1. Overview**

Here we present an overview of the web application modules and their description.

|  |  |
| --- | --- |
| **M01: Authentication and Profile** | Web resources associated with user authentication and personal profile management, which includes the features: login/logout, registration, viewing and editing personal profile information. |
| **M02: Auctions** | Web resources related to auction management, auction bidding, wishlists and user reviews: creating and editing auctions, placing bids, delete auctions, adding or removing an item from the wishlist, placing user reviews, removing user reviews by administrator, placing complaints about won auction. |
| **M03: Messaging System** | Web resources related to email management and user reports: creating, viewing and deleting emails, administrators viewing and closing user reports. |
| **M04: User administration** | Web resources related to user administration: banning, unbanning and reducing ban duration. |
| **M05: Static Pages** | Web resources related to static pages: about, faq and landing page. |

**2. Permissions**

This sections describes the user permissions groups.

|  |  |  |
| --- | --- | --- |
| **VIS** | Visitor | Group of users without privileges. |
| **USR** | User | Authenticated Users. |
| **OWN** | Owner | Group of Authenticated users that have privileges regarding their own items, such as their profile, auctions or bids. |
| **ADM** | Administrator | Group of administrators, which can edit page content on the website. |
| **BAN** | Banned | Group of banned users, which have reduced privileges compared to the User group. |

**3. Modules**

**Module M01: Authentication and Profile**

**Endpoints of Module Authentication and Profile**

These are the endpoints available in the Authentication and Profile Module.

* **R101: Login** /login
* **R102: Login Action** /login
* **R103: Logout Action** /logout
* **R104: Register** /register
* **R105: Register Action** /register
* **R106: View Profile** /profile/{id}
* **R107: Report abuse** /profile/{id}/feedback/{ID}/reportabuse
* **R108: Remove item from Watch List**  /profile/{id}/watchlist/{auctionID}/removeItem
* **R109: Feedback an item from history**/profile/{id}/history/{auctionID}/leaveFeedback
* **R110: Ask for refund** /profile/{id}/history/{auctionID}/refund
* **R111: Edit Profile** /profile/{id}/edit
* **R112: Edit Profile Auction** /profile/{id}/edit
* **R113: Cancel Account** /profile/{id}/cancel

**R101: Login**

|  |  |
| --- | --- |
| **URL** | /login |
| **Description** | Page with a form to login to an authenticated user account. |
| **Method** | GET |
| **UI** | [UI04](https://afonsobspinto.github.io/lbaw1764/login.html) |
| **SUBMIT** | R102 |
| **Permissions** | VIS |

**R102: Login Action**

|  |  |  |
| --- | --- | --- |
| **URL** | /login | |
| **Description** | This web resource logs the user into the system. Redirects to the home page on success and the login page on failure. | |
| **Method** | POST | |
| **Request Body** | +email: string | Email |
|  | +password: string | Password |
| **Redirects** | [UI04](https://afonsobspinto.github.io/lbaw1764/home/landing_page.html) | Success |
|  | R101 | Error |
| **Permissions** | VIS | |

**R103: Logout Action**

|  |  |  |
| --- | --- | --- |
| **URL** | /logout | |
| **Description** | This web resource logs out the authenticated user, administrator or banned user. | |
| **Method** | POST | |
| **Redirects** | [UI04](https://afonsobspinto.github.io/lbaw1764/home/landing_page.html) | Success |
| **Permissions** | USR, ADM, BAN | |

**R104: Register**

|  |  |
| --- | --- |
| **URL** | /register |
| **Description** | Page with a form to register a new authenticated user account. |
| **Method** | GET |
| **UI** | [UI05](https://afonsobspinto.github.io/lbaw1764/register.html) |
| **SUBMIT** | R105 |
| **Permissions** | VIS |

**R105: Register Action**

|  |  |  |
| --- | --- | --- |
| **URL** | /register | |
| **Description** | This web resource inserts the user into the system. Redirects to the home page on success and the register page on failure. | |
| **Method** | POST | |
| **Request Body** | +username: string | Username |
|  | +email: string | Email |
|  | +password: string | Password |
|  | +confirm\_password: string | Password confirmation |
|  | +first\_name: string | First name |
|  | +last\_name: string | Last name |
|  | +profile\_picture\_path: file | Profile picture file |
|  | +address: string | Address |
|  | +id\_city: Integer | City (Foreign Key) |
|  | +zip\_code: string | Zip-code |
| **Redirects** | [UI05](https://afonsobspinto.github.io/lbaw1764/home/landing_page.html) | Success |
|  | R104 | Error |
| **Permissions** | USR, ADM, BAN | |

**R106: View Profile**

|  |  |  |
| --- | --- | --- |
| **URL** | /profile/{id} | |
| **Description** | Shows the user profile page. | |
| **Method** | GET | |
| **Parameters** | +id: integer | user primary key |
| **Request Body** | [  { +username: string  +publication\_date: date  +rating: Integer  +description: string },  { +item\_name: string  +item\_category:string  +time\_left: date },  { +name: string  +category: string  +time\_left: date },  { +name: string  +category: string  +time\_left: date },  { +name: string  +category: string  +date: date }  ] | Username  Date  Rating  Description  Item name  Item category  Time Left  Name of watch list item  Category of watch list item  Time Left of watch list item  Name of item I’m bidding  Category of item I’m bidding  Time Left of item I’m bidding  Name of item I bought  Category of item I bought  Time Left of item I bought |
| **Returns** | 200 OK | The user profile was successfully loaded. |
|  | 400 Bad Request | The User is not authenticated, accessing other user’s profile or some other error as described in the HTTP header. |
|  | 404 Not Found | Error. No user primary key exists. |
| **Permissions** | USR, ADM, BAN | |

**R107: Report abuse**

|  |  |  |
| --- | --- | --- |
| **URL** | /profile/{id}/feedback/{ID}/reportabuse | |
| **Description** | Shows the feedbacks that were given to the user and allow to report an abuse on one of the users who gave feedback. | |
| **Method** | POST | |
| **Parameters** | +id: integer | user profile primary key |
|  | +ID: integer | user to report primary key |
| **Request Body** | +motive: string  +message:string | Motive to report the user. Message explaining what happened. |
| **Returns** | 200 OK | The user was successfully reported. |
|  | 400 Bad Request | The User is not authenticated, accessing other user’s profile or some other error as described in the HTTP header. |
|  | 404 Not Found | Error. No user primary key exists. |
| **Permissions** | USR, ADM | |

**R108: Remove item from Watch List**

|  |  |  |
| --- | --- | --- |
| **URL** | /profile/{id}/watchlist/{auctionID}/removeItem | |
| **Description** | Shows the watch list that from the user and allow to remove an item from the watch list. | |
| **Method** | DELETE | |
| **Parameters** | +id: integer | user profile primary key |
|  | +auctionID: integer | auction primary key |
| **Returns** | 200 OK | The user was successfully reported. |
|  | 400 Bad Request | The User is not authenticated, accessing other user’s profile or some other error as described in the HTTP header. |
|  | 404 Not Found | Error. No user primary key exists. |
| **Permissions** | USR, ADM | |

**R109: Feedback an auction from history**

|  |  |  |
| --- | --- | --- |
| **URL** | /profile/{id}/history/{auctionID}/leaveFeedback | |
| **Description** | Shows the history from the user purchases and allow him to give feedback to an auction. | |
| **Method** | POST | |
| **Parameters** | +id: integer | user profile primary key |
|  | +auctionID: integer | auction primary key |
| **Request Body** | +rating: Integer | Rating |
|  | +message: string | Feedback description |
| **Returns** | 200 OK | The auction received feedback correctly. |
|  | 400 Bad Request | The User is not authenticated, accessing other user’s profile or some other error as described in the HTTP header. |
|  | 404 Not Found | Error. No user primary key exists. |
| **Permissions** | USR, ADM | |

**R110: Ask for refund**

|  |  |  |
| --- | --- | --- |
| **URL** | /profile/{id}/history/{auctionID}/refund | |
| **Description** | Shows the history from the user purchases and allow him to ask for refund. | |
| **Method** | POST | |
| **Parameters** | +id: integer | user profile primary key |
|  | +auctionID: integer | auction primary key |
| **Request Body** | +motive: string | Motive |
|  | +message: string | Message explaining what happened. |
| **Returns** | 200 OK | The refund request was successful. |
|  | 400 Bad Request | The User is not authenticated, accessing other user’s profile or some other error as described in the HTTP header. |
|  | 404 Not Found | Error. No user primary key exists. |
| **Permissions** | USR, ADM | |

**R111: Edit Profile**

|  |  |  |
| --- | --- | --- |
| **URL** | /profile/{id}/edit | |
| **Description** | Page with a form to edit profile info | |
| **Method** | GET | |
| **Parameters** | +id: integer | user primary key |
| **UI** | [UI06](https://afonsobspinto.github.io/lbaw1764/profile/edit_profile.html) | |
| **SUBMIT** | R112 | |
| **Permissions** | OWN | |

**R112: Edit Profile Action**

|  |  |  |
| --- | --- | --- |
| **URL** | /profile/{id}/edit | |
| **Description** | Web resource that changes user profile info based on the input received. Redirects to the profile page on success and edit profile page on failure. | |
| **Method** | POST | |
| **Parameters** | +id: integer | user primary key |
| **Request Body** | +username: string | Username |
|  | +email: string | Email |
|  | +password: string | Password |
|  | +confirm\_password: string | Password confirmation |
|  | +first\_name: string | First name |
|  | +last\_name: string | Last name |
|  | +profile\_picture\_path: path | Profile picture path |
|  | +address: string | Address |
|  | +id\_city: Integer | City (Foreign Key) |
|  | +zip\_code: string | Zip-code |
| **Redirects** | [UI06](https://afonsobspinto.github.io/lbaw1764/home/landing_page.html) | Success |
| **Permissions** | OWN | |

**R113: Cancel Account**

|  |  |  |
| --- | --- | --- |
| **URL** | /profile/{user}/cancel | |
| **Description** | Web resource that asks for the user’s password. Redirects to the home page on sucess and cancels the account. | |
| **Method** | POST | |
| **Request Body** | +password: string | Password |
| **Redirects** | [UI06](https://afonsobspinto.github.io/lbaw1764/home/landing_page.html) | Success |
| **Permissions** | OWN | |

**M02: Auctions**

**Endpoints of Module Auctions**

These are the URL endpoints for actions relating to auctions, reviews and wishlists.

**R201: Add auction form** /auctions/create

**R202: Add auction action** /auctions

**R203: View auction** /auctions/view/{auctionID}

**R204: Edit auction form** /auctions/{auctionID}/edit

**R205: Edit auction action** /auctions/{auctionID}

**R206: Delete auction** /auctions/{auctionID}

**R207: Search auctions page** /auctions

**R208: Search auctions api** /api/auctions

**R209: Add auction to wishlist** /users/{userID}/wishlist/{auctionID}

**R210: Remove auction from wishlist** /users/{userID}/wishlist/{auctionID}

**R211: Add Buyer’s User Review to auction:** /auctions/{auctionID}/review

**R212: Remove Buyer’s User Review from auction by administrator:** /auctions/{auctionID}/review

**R213: Place complaint about won auction:** /auctions/{auctionID}/complaint

**R214: Place bid** /users/{userID}/bids/{auctionID}

**R215: Ask** /auctions/{auctionID}/qa/create

**R216: Answer** /auctions/{auctionID}/qa/{questionID}

**R201: Add auction form**

|  |  |  |
| --- | --- | --- |
| **URL** | /auctions/create | |
| **Description** | Page with a form to post a new auction. | |
| **Method** | GET | |
| **Parameter** | +id: integer | auction id |
| **UI** | [UI12](https://afonsobspinto.github.io/lbaw1764/sell_page.html) | |
| **Submit** | R202 | |
| **Permissions** | OWN | |

**R202: Add auction action**

|  |  |  |
| --- | --- | --- |
| **URL** | /auctions | |
| **Description** | Web resource that creates a new auction based on the input received. Redirects to the new auction page on success and back to new auction form on failure. | |
| **Method** | POST | |
| **Request Body** | +title: string | Title of the auction |
|  | +category: string | Category of the item |
|  | +description: string | Description of the item |
|  | +condition: string | Condition of the item |
|  | +photos: file[] | Array of photos about the item |
|  | +starting price: float | Auction starting price |
|  | +end of auction: string | Auction end date |
|  | +payment options: string[] | Kinds of payment accepted |
|  | +return options: boolean | Auction return policy |
|  | +shipping options: string[] | Shipping options of the auction |
|  | +cost: float | Cost of the shipping |
|  | +item location:: string | Location of the item |
| **Redirects** | R203 | Success |
|  | R201 | Error |
| **Permissions** | USR, OWN | |

**R203: View auction**

|  |  |  |
| --- | --- | --- |
| **URL** | /auctions/{auctionID} | |
| **Description** | Shows the auction’s page. | |
| **Method** | GET | |
| **Parameter** | +auctionID: integer | auction id |
| **Request Body** | [  { +current\_bid: string  +time\_left: date  +description},  { +shipping: string  +item\_location: string  +ships\_to: string  +delivery: date  +payment: string  +returns: string },  { +question: string  +answer: string},  { +username: string  +publication\_date: date  +rating: Integer  +description: string}  ] | Current bid  Time Left  Description  Shipping condition  Item Location  Ships to  Delivery date  Payment types allowed  Return conditions  Questions about an item  Answers about an item  Username of who review this auctioneer  Publication date of review  Rate given in this review  Description associated with this review |
| **Returns** | 200 OK | The auction was successfully loaded. |
|  | 400 Bad Request | The User is not authenticated, accessing other user’s profile or some other error as described in the HTTP header. |
|  | 404 Not Found | Error. No user primary key exists. |
| **UI** | [UI11](https://afonsobspinto.github.io/lbaw1764/auction/auction.html) | |
| **Permissions** | USR | |

**R204: Edit auction form**

|  |  |  |
| --- | --- | --- |
| **URL** | /auctions/{auctionID}/edit | |
| **Description** | Page with a form to edit auction info. | |
| **Method** | GET | |
| **Parameter** | +id: integer | auction id |
| **UI** | [UI11](https://afonsobspinto.github.io/lbaw1764/auction/edit_page_asAuctioneer.html) | |
| **Submit** | R205 | |
| **Permissions** | OWN, ADM | |

**R205: Edit auction action**

|  |  |  |
| --- | --- | --- |
| **URL** | /auctions/{auctionID} | |
| **Description** | Web resource that changes the auction info based on the input received. Redirects to the auction page on success and edit auction page on failure. | |
| **Method** | POST | |
| **Request Body** | +title: string | Title of the auction |
|  | +category: string | Category of the item |
|  | +description: string | Description of the item |
|  | +condition: string | Condition of the item |
|  | +photos: file[] | Array with photos about the item |
|  | +starting price: float | Auction starting price |
|  | +end of auction: string | Auction end date |
|  | +payment options: string[] | Kinds of payment accepted |
|  | +return options: boolean | Auction return policy |
|  | +shipping options: string[] | Shipping options of the auction |
|  | +cost: float | Cost of the shipping |
|  | +item location:: string | Location of the item |
| **Redirects** | R203 | Success |
|  | R204 | Error |
| **Permissions** | OWN | |

**R206: Delete auction action**

|  |  |  |
| --- | --- | --- |
| **URL** | /auctions/{auctionID} | |
| **Description** | This web resource removes the auction from the system. Redirects to the Homepage on success and the View Auction page on failure. | |
| **Method** | DELETE | |
| **Request Body** | +auctionID: integer | Auction id |
|  | +password: string | Auctioneer password |
|  | +motive: string | Motive |
|  | +message: string | Message |
| **Redirects** | [UI12](https://afonsobspinto.github.io/lbaw1764/home/landing_page.html) | Sucess |
|  | R203 | Error |
| **Permissions** | OWN, ADM | |

**R207: Search auctions page**

|  |  |  |
| --- | --- | --- |
| **URL** | /auctions | |
| **Description** | Page with a form to search auctions. | |
| **Method** | GET | |
| **Parameter** | ?query: string | String field to search for in auctions |
|  | ?category: string | Category of the work |
|  | ?min value: int | Minimum price of the auction |
|  | ?max value: int | Maximum price of the auction |
|  | ?location: string | Item Location |
|  | ?condition: string | Item Condition |
| **UI** | [UI09](https://afonsobspinto.github.io/lbaw1764/advanced_search.html) | |
| **AJAX Calls** | R208 | |
| **Permissions** | PUB | |

**R208: Search auctions api**

|  |  |  |
| --- | --- | --- |
| **URL** | /api/auctions | |
| **Description** | This web resource searches the system for auctions and returns the results. | |
| **Method** | GET | |
| **Parameter** | ?query: string | String field to search for in auctions |
|  | ?category: string | Category of the work |
|  | ?min value: int | Minimum price of the auction |
|  | ?max value: int | Maximum price of the auction |
|  | ?location: string | Item Location |
|  | ?condition: string | Item Condition |
| **Response body** | JSON201 | |
| **Permissions** | PUB | |

**R209: Add auction to wishlist**

|  |  |  |
| --- | --- | --- |
| **URL** | /users/{userID}/wishlist/{auctionID} | |
| **Description** | This web resource adds the auction to the user’s wishlist | |
| **Method** | POST | |
| **Parameters** | +userID: integer | User id |
|  | +auctionID: integer | Auction id |
| **Returns** | 200 OK | The auction was successfully added to the user’s wish list. |
|  | 400 Bad Request | Error. The User is not authenticated, accessing other user’s profile or some other error as described in the HTTP header. |
|  | 404 Not Found | Error. No auction or user with the specified primary key exists. |
| **Permissions** | USR | |

**R210: Remove auction from wishlist**

|  |  |  |
| --- | --- | --- |
| **URL** | /users/{userID}/wishlist/{auctionID} | |
| **Description** | This web resource removes the auction from the user’s wishlist | |
| **Method** | DELETE | |
| **Parameters** | +userID: integer | User id |
|  | +auctionID: integer | Auction id |
| **Returns** | 200 OK | The auction was successfully removed from the user’s wish list. |
|  | 400 Bad Request | Error. The User is not authenticated, accessing other user’s profile, doesn’t have permission or some other error as described in the HTTP header |
|  | 404 Not Found | Error. No auction or user with the specified primary key exists. |
| **Permissions** | USR | |

**R211: Add Buyer’s User Review to auction**

|  |  |  |
| --- | --- | --- |
| **URL** | /auctions/{auctionID}/review | |
| **Description** | This web resource adds a new user review on the user’s won auction. | |
| **Method** | POST | |
| **Parameters** | +auctionID: integer | Auction id |
| **Request Body** | +rating: integer | User rating from 1 to 5 |
|  | +description: string | Review text |
| **Returns** | 200 OK | The review was successfully added. |
|  | 400 Bad Request | Error. User didn’t win the auction, doesn’t have permission to add review or some other error as described in the HTTP header |
|  | 404 Not Found | Error. No auction with the specified primary key exists. |
| **Permissions** | USR | |

**R212: Remove Buyer’s User Review from auction by administrator**

|  |  |  |
| --- | --- | --- |
| **URL** | /auctions/{auctionID}/review | |
| **Description** | This web resource allow an administrator to remove a user review on the user’s won auction. | |
| **Method** | DELETE | |
| **Parameters** | +auctionID: integer | Auction id |
| **Returns** | 200 OK | The review was successfully removed. |
|  | 400 Bad Request | Error. User isn’t an administrator, or some other error as described in the HTTP header |
|  | 404 Not Found | Error. No auction with the specified primary key exists or auction doesn’t yet have a review |
| **Permissions** | ADM | |

**R213: Place complaint about won auction**

|  |  |  |
| --- | --- | --- |
| **URL** | /auctions/{auctionID}/complaint | |
| **Description** | This web resource creates a complaint on a won auction | |
| **Method** | POST | |
| **Parameters** | +auctionID: integer | Auction id |
| **Request Body** | +motive: string | The motive for complaint |
|  | +message: string | Complaint message |
| **Returns** | 200 OK | The complaint was successfully placed |
|  | 400 Bad Request | Error. User didn’t win the auction, or some other error as described in the HTTP header |
|  | 404 Not Found | Error. No auction with the specified primary key exists. |
| **Permissions** | USR | |

**R214: Place bid**

|  |  |  |
| --- | --- | --- |
| **URL** | /users/{userID}/bids/{auctionID} | |
| **Description** | Web resource that allows an authenticated user to place a bid on an auction’s page. | |
| **Method** | POST | |
| **Request Body** | +amount: integer | Amount |
| **Redirects** | [UI11](https://afonsobspinto.github.io/lbaw1764/auction/auction.html) | Success |
| **Permissions** | USR | |

**R215: Ask**

|  |  |  |
| --- | --- | --- |
| **URL** | /auctions/{auctionID}/qa/create | |
| **Description** | Web resource that allows an authenticated user to place a question on an auction’s page. | |
| **Method** | POST | |
| **Request Body** | +auctionID: integer | Auction ID |
|  | +question: string | Question |
| **Redirects** | [UI11](https://afonsobspinto.github.io/lbaw1764/auction/auction.html) | Success |
| **Permissions** | USR, ADM | |

**R216: Answer**

|  |  |  |
| --- | --- | --- |
| **URL** | /auctions/{auctionID}/qa/{questionID} | |
| **Description** | Web resource that allows the auctioneer to answer a question. | |
| **Method** | POST | |
| **Request Body** | +auctionID: integer | AuctionID |
|  | +answer: string | Answer |
| **Redirects** | [UI11](https://afonsobspinto.github.io/lbaw1764/auction/auction_asAuctioneer.html) | Success |
| **Permissions** | OWN | |

**Module M03: Messaging System**

**Endpoints of Module Messaging System**

These are the endpoints available in the Messaging System related emails and reports. creating, viewing and deleting emails, administrators viewing and closing user reports.

* **R301: Create message** /users/{userID}/messages/create
* **R302: Delete message** /users/{userID}/messages/{messageID}
* **R303: View message** /users/{userID}/messages/{messageID}
* **R304: View all messages** /users/{userID}/messages
* **R305: View report** /admin/reports/{reportID}
* **R306: View all reports** /admin/reports

**R301: Create message**

|  |  |  |
| --- | --- | --- |
| **URL** | /users/{userID}/messages/create | |
| **Description** | Page with a modal to create a new message. It is possible to specify the recipient, the item to which the message refers and the message itself. | |
| **Method** | POST | |
| **Request Body** | +from: integer | Sender ID |
|  | +subject: string | Subject of the message |
|  | +message: string | Message |
|  | +to: integer | Recipient ID |
| **Redirects** | [UI07](https://afonsobspinto.github.io/lbaw1764/chat.html) |  |
| **Permissions** | USR, OWN, ADM | |

**R302: Delete Message**

|  |  |  |
| --- | --- | --- |
| **URL** | /users/{userID}/messages/{messageID} | |
| **Description** | Action to delete messages. | |
| **Method** | DELETE | |
| **Parameters** | +messageID: integer | Message id |
| **Returns** | 200 OK | The message was successfully deleted. |
|  | 400 Bad Request | Error as described in the HTTP header. |
|  | 404 Not Found | Message Not Found. |
| **Redirects** | [UI08](https://afonsobspinto.github.io/lbaw1764/chat.html) |  |
| **Permissions** | USR, OWN, ADM | |

**R303: View Message**

|  |  |  |
| --- | --- | --- |
| **URL** | /users/{userID}/messages/{messageID} | |
| **Description** | Shows a specific message. | |
| **Method** | GET | |
| **Parameters** | +UserID: integer | user primary key |
|  | +MessageID | message primary key |
| **Redirects** | [UI08](https://afonsobspinto.github.io/lbaw1764/message.html) | |
| **Permissions** | USR, ADM, OWN | |

**R304: View all messages**

|  |  |  |
| --- | --- | --- |
| **URL** | /users/{userID}/messages | |
| **Description** | Shows all user’s messages. | |
| **Method** | GET | |
| **Parameters** | +UserID: integer |  |
| **Redirects** | [UI07](https://afonsobspinto.github.io/lbaw1764/chat.html) | |
| **Permissions** | USR, ADM, OWN | |

**R305: View report**

|  |  |  |
| --- | --- | --- |
| **URL** | /admin/{userID}/reports/{reportID} | |
| **Description** | Shows a specific report. | |
| **Method** | GET | |
| **Parameters** | +userID: integer | User ID (validate if user is an administrator) |
|  | +reportID; integer | Report ID |
| **Redirects** | [UI10](https://afonsobspinto.github.io/lbaw1764/report.html) | |
| **Permissions** | ADM | |

**R306: View all reports**

|  |  |  |
| --- | --- | --- |
| **URL** | /admin/{userID}/reports | |
| **Description** | Shows all reports of this administrator. | |
| **Method** | GET | |
| **Parameters** | +UserID: integer | User ID (validate if user is an administrator) |
| **Redirects** | [UI10](https://afonsobspinto.github.io/lbaw1764/report.html) | |
| **Permissions** | ADM | |

**M04: User administration**

**Endpoints of Module User administration**

These are the URL endpoints for actions relating managing user bans and promotions by administrators.

**R401: Ban User** /users/{userID}/ban

**R402: Unban User** /users/{userID}/ban

**R403: Modify Ban Duration** /users/{userID}/ban

**R404: Promote to Admin** /users/{userID}/promote

**R405: Vote to demote Admin** /users/{userID}/demote

**R401: Ban User**

|  |  |  |
| --- | --- | --- |
| **URL** | /users/{userID}/ban | |
| **Description** | This web resource allows an administrator to ban a user | |
| **Method** | POST | |
| **Parameters** | +userID: integer | User id |
| **Request Body** | +duration: time | The ban duration |
| **Returns** | 200 OK | The user was successfully banned |
|  | 400 Bad Request | Error. Requesting user isn’t an administrator, user is an administrator, or some other error as described in the HTTP header |
|  | 404 Not Found | Error. No user primary key exists |
| **Permissions** | ADM | |

**R402: Unban User**

|  |  |  |
| --- | --- | --- |
| **URL** | /users/{userID}/ban | |
| **Description** | This web resource allows an administrator to unban a user | |
| **Method** | DELETE | |
| **Parameters** | +userID: integer | User id |
| **Returns** | 200 OK | The user was successfully unbanned |
|  | 400 Bad Request | Error. Requesting user isn’t an administrator, user is an administrator, or some other error as described in the HTTP header |
|  | 404 Not Found | Error. No user primary key exists or user isn’t currently banned |
| **Permissions** | ADM | |

**R403: Modify Ban Duration**

|  |  |  |
| --- | --- | --- |
| **URL** | /users/{userID}/ban | |
| **Description** | This web resource allows an administrator to modify the ban duration of a user | |
| **Method** | POST | |
| **Parameters** | +userID: integer | User id |
| **Request Body** | +duration: time | The new ban duration |
| **Returns** | 200 OK | The user was successfully banned |
|  | 400 Bad Request | Error. Requesting user isn’t an administrator, user is an administrator, or some other error as described in the HTTP header |
|  | 404 Not Found | Error. No user primary key exists |
| **Permissions** | ADM | |

**R404: Promote to Admin**

|  |  |  |
| --- | --- | --- |
| **URL** | /users/{userID}/promote | |
| **Description** | This web resource allows an administrator to promote an user to administrator. | |
| **Method** | POST | |
| **Parameters** | +userID: integer | User id |
| **Returns** | 200 OK | The user was successfully promoted |
|  | 400 Bad Request | Error. Requesting user is banned, user is an administrator, or some other error as described in the HTTP header |
|  | 404 Not Found | Error. No user primary key exists |
| **Permissions** | ADM | |

**R405: Vote to demote Admin**

|  |  |  |
| --- | --- | --- |
| **URL** | /users/{userID}/vote | |
| **Description** | This web resource allows an administrator to vote to demote another administrator. | |
| **Method** | POST | |
| **Parameters** | +userID: integer | User id |
| **Returns** | 200 OK | The vote was submitted. |
|  | 400 Bad Request | Error. User isn’t an administrator or some other error as described in the HTTP header |
|  | 404 Not Found | Error. No user primary key exists |
| **Permissions** | ADM | |

**M05: Static Pages**

**Endpoints of Module Static Pages**

These are the URL endpoints available in the Static Pages module.

**R501: About** /about

**R502: FAQ** /faq

**R503: Landing page** /landing\_page

**R501: About**

|  |  |
| --- | --- |
| **URL** | /about |
| **Description** | Get about page. |
| **Method** | GET |
| **UI** | [UI02](https://afonsobspinto.github.io/lbaw1764/about.html) |
| **Permissions** | VIS |

**R502: FAQ**

|  |  |
| --- | --- |
| **URL** | /faq |
| **Description** | Get Frequently Asked Questions page. |
| **Method** | GET |
| **UI** | [UI03](https://afonsobspinto.github.io/lbaw1764/FAQ.html) |
| **Permissions** | VIS |

**R503: Landing Page**

|  |  |
| --- | --- |
| **URL** | /landing\_page |
| **Description** | Get website “home”. |
| **Method** | GET |
| **UI** | [UI01](https://afonsobspinto.github.io/lbaw1764/home/landing_page.html) |
| **Permissions** | VIS |

**4. JSON/XML Types**

**JSON201: Search Auctions: {auction}[]**

{

"auction": [

{

"id": "1",

"item\_name": "Dell XPS 15",

"description": "Ultrabook with the powerful Intel i7-7700HQ Quad Core CPU with NVIDIA GTX 1050 Gaming graphics Card. ",

"current\_price": "1600.00",

"condition": "New",

"end\_date": "04/14/2018 - 20:27",

"shipping\_options": "Worldwide",

"shipping\_cost": "FREE",

"location": "Henan, China",

"owner": "Auctioneer Name",

"category": "Tech"

},

{

"id": "2",

"item\_name": "Dell XPS 15",

"description": "Ultrabook with the powerful Intel i7-7700HQ Quad Core CPU with NVIDIA GTX 1050 Gaming graphics Card.",

"current\_price": "1601.00",

"condition": "Used",

"end\_date": "04/14/2018 - 20:28",

"shipping\_options": "Worldwide",

"shipping\_cost": "FREE",

"location": "Henan, China",

"owner": "Auctioneer Name",

"category": "Tech"

},

]

}

**Revision history**  
   
Changes made to the first submission:

1. Update R104, 105, R111, R112 and R295
2. Add R107, R108, R109, R110
3. Update the numeration of Module 02

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