**A2: Actors and User stories**

This document contains the specification of the actors and their users stories, serving as documentation.

**1. Actors**

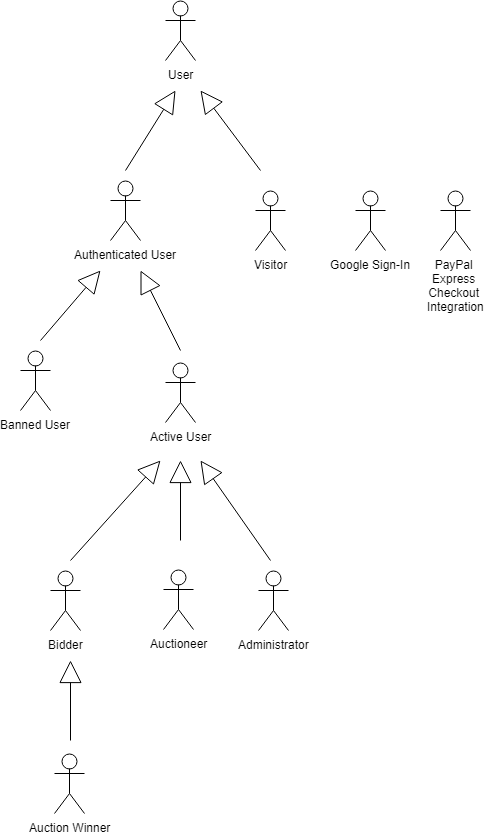


Figure 1: Diagram identifying actors and their relationships

|  |  |  |
| --- | --- | --- |
| **Identifier** | **Description** | **Examples** |
| User | Generic user. Has access to public information, such as items for sale or the profile of an auctioneer. | n/a |
| Visitor | Unauthenticated user; Can register itself or authenticate in the system. | n/a |
| Authenticated User | Can consult and edit personal profile information like email, profile picture, description, etc. | n/a |
| Active User | Can send messages to other Active Users about auctions or private messages, bid or sell. | n/a |
| Bidder | Authenticated user that has an active bid. Can check which bids are active and has automatic system messages to inform him about them. | cristianaR |
| Auction Winner | A bidder that won an auction; Can manage the payment of an auction and rate it and its auctioneer. | Ross65536 |
| Auctioneer | Authenticated user that has an active auction; Can change the existing information or cancel it. | Toliveira97 |
| Banned User | A banned user that cannot do any of the things that Bidder or Auctioneer can do. The ban can be temporary or permanent and the user can try to appeal the ban. | afonsobspinto |
| Admin | Registered and authenticated user; Responsible for user moderation functions (e.g: can ban users). | admin |
| Google Sign-In | External API. Runs a script on the website that allows the user to register or log in, using his Google account. | n/a |
| PayPal Express Checkout Integration | External API. Runs a script on the website that allows the user to do secure money transactions. | n/a |

Table 1: Actor’s Description

**2. User Stories**

For the BidBay project, consider the user stories that are presented in the following sections.

**User**

|  |  |  |  |
| --- | --- | --- | --- |
| **Identifier** | **Name** | **Priority** | **Description** |
| US01 | Home page | high | As a *User*, I want to access home page, so that I can see some content on the site. |
| US02 | Search | high | As a *User*, I want to search for auctions in the system, so that i can understand if it’s worth registering on the site. |
| US03 | About page | medium | As a *User*, I want to access the about page, so that I can see a complete website's description. |
| US04 | FAQ page | medium | As a *User*, I want to access the FAQ page, so that I can find existing solutions/answers to my problems/questions. |
| US05 | Contact page | medium | As a *User,* I want to access the contact page, so that I can use a contact form to clarify questions that are not answered on the about page. |

Table 1: User’s User Stories

**Visitor**

|  |  |  |  |
| --- | --- | --- | --- |
| **Identifier** | **Name** | **Priority** | **Description** |
| US11 | Log in | high | As *Visitor*, I want to authenticate into the system, so that I can access privileged information. |
| US12 | Register | high | As *Visitor*, I want to register myself into the system, so that I can authenticate myself into the system. |
| US13 | View profile | medium | As a *Visitor*, I want to view the basic profile of an authenticated user, so i can see his auction history, description. |
| US14 | Log in using Google Sign-In | low | As a *Visitor*, I want to use register a new account linked to my Google account, so that I can access privileged information. |
| US15 | Register using external Google Sign-In | low | As a *Visitor*, I want to log in through my Google account, so that I can authenticate myself into the system. |

Table 2: Visitor’s User Stories

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### **Authenticated User**

|  |  |  |  |
| --- | --- | --- | --- |
| **Identifier** | **Name** | **Priority** | **Description** |
| US21 | Email  verification | high | As an Authenticated User, I want to receive an email verification, so that I can prevent my account from being stolen by a potential phisher. |
| US22 | Update  account information | high | As an Authenticated User, I want to change my account credentials, so that I can keep it updated (e.g. changing the password or email). |
| US23 | Update profile information | medium | As an Authenticated User, I want to change my personal information, so that I can keep it updated. |
| US24 | View profile | medium | As an Authenticated User, I want to view the detailed profile of an authenticated user, so that I can see some of his personal information. |
| US25 | Cancel account | low | As an Authenticated User, I want to cancel my account, so that I can delete all my personal information from the system, except the username or email. |

Table 3: Authenticated User’s User Stories

### **Banned User**

|  |  |  |  |
| --- | --- | --- | --- |
| **Identifier** | **Name** | **Priority** | **Description** |
| US31 | View ban duration | low | As an *Banned User*, I want to view my ban duration, so that I can see when I can resume buying/selling and messaging. |
| US32 | Appeal ban | low | As an *Banned User*, I want to appeal my ban to an administrator, so that I can reduce the duration or become unbanned.[[1]](#footnote-0) |

Table 4: Banned User’s User Stories

**Active User**

|  |  |  |  |
| --- | --- | --- | --- |
| **Identifier** | **Name** | **Priority** | **Description** |
| US41 | Add Item | high | As an *Active User*, I want to be able to add an item to auction, so that other users can bid on It. |
| US42 | Bid | high | As a *Active User*, I want to be able to bid on auctions so that I can purchase some items. |
| US43 | Purchase history | high | As a *Active User*, I want to be able to view all my purchases, so that I can review them. |
| US44 | Ask Auction Q&A | medium | As an *Active User*, I want to ask a public question to the auctioneer about an auction, so that I and others can get more details about the product on auction. |
| US45 | Report auction | medium | As an *Active User*, I want to be able to report an auction, so that I can inform the administrators of an abusive auction. |
| US46 | Open chat | low | As an *Active User*, I want to be able to chat with other users directly, so that I can be more involved in the community. |
| US47 | Report auction feedback | low | As an *Active User,*  I want to report the rating left by a auction winner, so that I can let the administrators know about an abusive message. |
| US48 | Report account | low | As an *Active User*, I want to be able to report other active users, so that I can inform the administrators of their abusive behaviour. |
| US49 | Wish list add | low | As a *Active User*, I want to add an item to my wish list, so that I can get notified on any changes to the auction. |
| US50 | Wish list remove | low | As a *Active User*, I want to remove an item from my wish list, so that I can forget the item. |
| US51 | See the auctioneer’s ratings | low | As a *Active User*, I want to see the rate of the Auctioneer of an auction i’m interested in. |

Table 5: Active User’s User Stories

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### **Bidder**

|  |  |  |  |
| --- | --- | --- | --- |
| **Identifier** | **Name** | **Priority** | **Description** |
| US61 | See the auctions I’m bidding | high | As a *Bidder*, I want to see the auctions i’m participating in. |
| US62 | Automatic message system | low | As an *Bidder*, I want the system to automatically inform me about new updates related to my account (overbids, item removed). |

Table 6: Bidder’s User Stories

### **Auction Winner**

|  |  |  |  |
| --- | --- | --- | --- |
| **Identifier** | **Name** | **Priority** | **Description** |
| US71 | Manage payment | high | As an *Auction Winner,* I want the system to automatically connect me via message system to the auctioneer so that I can manage the transactions more easily. |
| US72 | Rate Auction | medium | As an *Auction Winner*, I want to be able to rate and leave a comment on the auction won, so that I can classify the auction Auctioneer’s trustworthiness. |
| US73 | Request refund | medium | As an *Auction Winner*, I want to be able to request a refund for the auction that I won or bought, so that I can be refunded for never receiving or getting a defective product. |
| US74 | Payment using PayPal Express Checkout Integration | low | As an *Auction Winner*, I want to be able to make money transactions using PayPal Express Checkout Integration so that I can purchase some item securely. |

Table 7: Auction Winner’s User Stories

### **Auctioneer**

|  |  |  |  |
| --- | --- | --- | --- |
| **Identifier** | **Name** | **Priority** | **Description** |
| US81 | Manage payment | high | As an *Auctioneer,* I want the system to automatically connect me via message system to the auction winner so that I can manage the transactions more easily. |
| US82 | Update auction | high | As an *Auctioneer*, I want to change the information about an auction, so thaat it keep updated. |
| US83 | Remove auction | high | As an *Auctioneer*, I want to remove an auction, so that I can record the unavailability of an item. |
| US84 | See my auctions | high | As an *Auctioneer*, i want to see the items i’m auctioning or auctioned. |
| US85 | Answer Auction Q&A | medium | As an *Auctioneer*, I want to answer a public question about my auction, so that I can give more information to other users about the product. |
| US86 | Upload item pictures | medium | As an *Auctioneer*, I want to upload pictures of the item I have on auction, so that other users can see what It looks like. |

Table 8: Auctioneer User Stories

**Admin**

|  |  |  |  |
| --- | --- | --- | --- |
| **Identifier** | **Name** | **Priority** | **Description** |
| US91 | Remove content | high | As an *Admin,* I want to remove any harmful or dangerous content, so that I can be able to guarantee a product appropriate to any person and in accordance with legal regulations. |
| US92 | Cancel auctions | high | As an *Admin*, I want to cancel auctions from a auctioneer, so that I can be able to guarantee the inexistence of inappropriate items. |
| US93 | Ban accounts | medium | As an *Admin*, I want to ban an account, so that he can’t message other users or bid on or create auctions. |
| US94 | Change ban duration | low | As an *Admin*, I want to change the ban duration of an account, so that i can reduce or increase its penalty. |
| US95 | Restore  accounts | low | As an *Admin*, I want to restore a banned account, so that he can message other users or bid on or create auctions. |
| US96 | Promote to Admin | low | As an *Admin*, I want to promote a User account to administrator, so that he can perform the functions of an administrator. |
| US97 | View account reports | low | As an *Admin*, I want to view all the reports against an account and its ban history (if any), so that I can have a better understanding of the behaviour of the user. |
| US98 | Vote to demote Admin | low | As an *Admin*, I want to vote to demote an admin account to a regular account, so that he can no longer perform the functions of an administrator. |

Table 9: Admin’s User Stories

**Google Sign-In**

|  |  |  |  |
| --- | --- | --- | --- |
| **Identifier** | **Name** | **Priority** | **Description** |
| US101 | Google Sign In API | low | As a *Google Sign In API*, I want to run a script to generate a token, so that I can log in or register in the website. |

Table 10: Google Sign-In’s User Stories

**PayPal Express Checkout Integration**

|  |  |  |  |
| --- | --- | --- | --- |
| **Identifier** | **Name** | **Priority** | **Description** |
| US111 | Payments API | low | As a *Payments PayPal API*, I want to run a script that allows payments using PayPal REST API. |

Table 11: PayPal Express Checkout Integration’s User Stories

**A1. Annex: Supplementary requirements**

This annex contains business rules, technical requirements and other non-functional requirements on the project.

**A1.1. Business rules**

|  |  |  |
| --- | --- | --- |
| **Identifier** | **Name** | **Description** |
| BR01 | Auction deadline | An auction cannot be bid on or bought after It’s deadline runs out. |
| BR02 | Auction  conclusion | Completed auctions have 30 days during which the bidder or auctioneer can either confirm the transaction or issue a complaint which can be resolved among themselves or through the help of administrators, otherwise after the deadline the auction is automatically finished. |
| BR03 | Auction type | The auctions on this website will follow the *English auction*[[2]](#footnote-1) convention. |
| BR04 | Auctions allowed | Only goods can be auctioned (not services). |
| BR05 | Buying and selling | *Administrators* cannot bid on or sell items on the platform, only bidders and auctioneers. |
| BR06 | Banned users | *Banned* users cannot communicate with other users, except with admins in order to appeal their ban. |
| BR07 | Appealing bans | *Banned* users can try to appeal their ban to the admins. |
| BR08 | Updating  items | *Auctioneers* can update their auctions until someone bids on it. |
| BR09 | Winner | The winner of the auction is the bidder with the highest bid, when the time ends. |

**A1.2. Technical requirement**

|  |  |  |
| --- | --- | --- |
| **Identifier** | **Name** | **Description** |
| TR01 | Availability | The system must be available 99 percent of the time in each 24-hour period |
| TR02 | Accessibility | The system must ensure that everyone can access the pages, regardless of whether they have any handicap or not, or the Web browser they use |
| TR03 | Usability | The system should be simple and easy to use |
| TR04 | Performance | The system should have response times shorter than 2s to ensure the user's attention |
| TR05 | Web application | The system should be implemented as a Web application with dynamic pages (HTML5, JavaScript, CSS3 and PHP) |
| TR06 | Portability | The server-side system should work across multiple platforms (Linux, Mac OS, etc.) |
| TR07 | Database | The PostgreSQL 9.4 database management system must be used |
| TR08 | Security | The system shall protect information from unauthorised access through the use of an authentication and privilege verification system |
| TR09 | Robustness | The system must be prepared to handle and continue operating when runtime errors occur |
| TR10 | Scalability | The system must be prepared to deal with the growth in the number of users and corresponding operations |
| TR11 | Ethics | The system must respect the ethical principles in software development (for example, the password must be stored encrypted to ensure that only the owner knows it) |
| TR12 | Responsiveness | The system must be legible and easy to use regardless of the display size (smartphone, tablet or desktop) |

**A1.3. Restrictions**

|  |  |  |
| --- | --- | --- |
| **Identifier** | **Name** | **Description** |
| C01 | Deadline | The system should be ready to be used at the beginning of the Summer holidays to be able to register the auctions. |
| C02 | Team Size | The team size can only be of 4 people through the duration of the project. |

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

1. Remove the # symbols.
2. Add external APIs as actors.
3. Improve borders between actors.
4. Change communicating user to active user.
5. Changed buyer to auction winner and seller to auctioneer.
6. Add bidder actor.
7. Change actor’s description table.
8. Change US04 and US05 in user table.
9. Add new business rules.
10. Add US21 - Email verification.
11. Improve US25.
12. Add US95 - Change ban duration.
13. Sort, organize and improve active user, auction winner and auctioneer tables.
14. Make US81 and US71 more specific.
15. Add US61 and US83.
16. Change US44 priority.
17. Deprioritize admin and banned user User Stories.
18. Add BR03, BR04, BR08 and BR09.
19. Change BR02, BR05 and BR07.

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1. mirrored on US94 and US95 [↑](#footnote-ref-0)
2. Participants bid openly against one another, with each subsequent bid required to be higher than the previous bid. [↑](#footnote-ref-1)