

# ER: Requirements Specification Component

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An online bidding platform destined for car model lovers, allowing them to sell or complete their private collections, by participating in real-time traditional auctions and interacting with other worldwide collectors.

## A1: CarBay

This project aims to develop a website where collection lovers can participate and bid in online auctions of famous collection car models.

In today's world, vintage collections are widely searched and desired by aesthetics enthusiasts. A web-based aggregation system where users can participate in auctions can be of enormous value, allowing them to extend their private car collections or sell their assets in real-time. This idea becomes more relevant since there is no other online system alike for this growing market.

There will be three different types of users, being the first the administrators, who have permissions to manage ongoing auctions, suspending or rescheduling them, to assist or block users and update/delete website content.

Secondly, a registered user can create, as a seller, and participate, as a bidder, in their favourite auctions. These traditional auctions stay available for the time set defined by the seller, and when it closes, the highest bidder wins. Unlike other types of auctions, this one does not increase the time at the final seconds and the ending hour is fixed. Additional features are the "Buy Now" option, which ends the auction right away, setting the maximum allowed bid, or the "Feedback Loop", which allows the users to give real-time feedback during the auction. Registered users have access to their profiles with their auctions' history and other related information. The Google authentication API may be provided for the users to log in and use their Google account basic profile information.

Finally, besides being able to browse through past and live auctions, the rest of the website visitors can also see the website content, without being able to explicitly interact with it. The content may be searched and ordered using advanced criteria, for example, by the auctions' highest bids, the creation date, the car model brand, scale, colour or seller, the remaining time, and many other terms.

## A2: Actors and User stories

Specification of the actors, their user stories, and supplementary requirements are contained in this artifact, serving as agile documentation of the project requirements. This way, every featured idea of the project is presented in this section, along with their description and priority.

### 2.1 Actors:

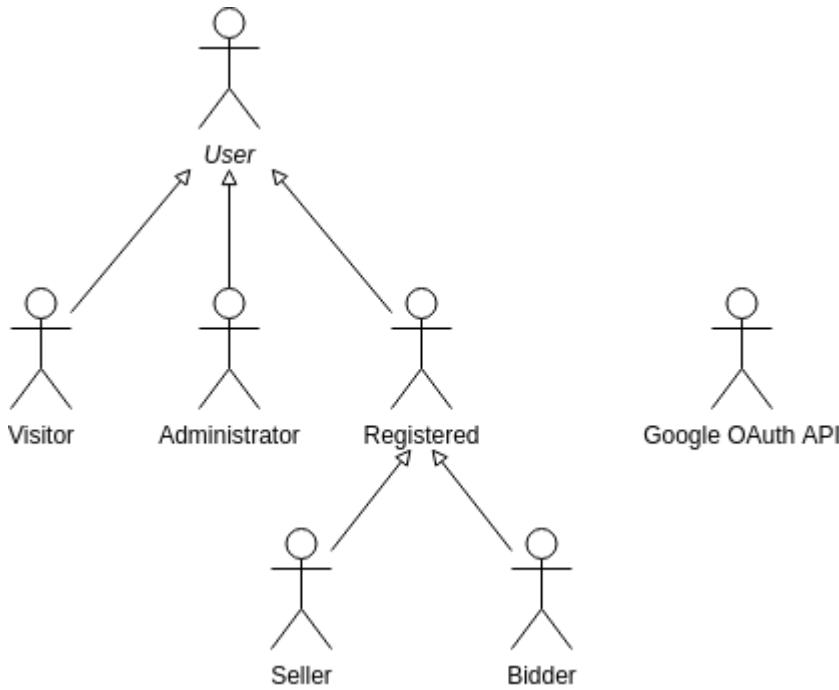


Figure 1: Actors.

Identifier	Description	Examples
User	Generic user who has access to public information, such as the auctions, users' profiles, and the advanced search	n/a
Visitor	Unauthenticated user that can register itself (sign-up) or sign-in in the system. A visitor can't participate in auctions or interact with the other users.	n/a
Administrator	Authenticated user who has permission to manage ongoing auctions, suspending or rescheduling them, to assist or block users, and to update/delete website content.	Admin
Registered	Authenticated user that can participate in auctions, and interact with other users. It's associated with a personal profile, where their auctions' history, favourite auctions and sellers, and statistics can be seen.	WheelsAddict
Seller	Registered user that created an auction, where he is selling one or more model cars. He has access to the detailed data of the auction, like the number of bids, the respective bidders, or the price variation.	CarBoss
Bidder	Registered user that can bid in a given auction and give feedback during the events.	WheelsAddict
Google OAuth API	External OAuth API which is used to register or authenticate into the system.	Google

Table 1: Actors Description.

## 2.2 User Stories

For this system, are considered the user stories that are presented in the following sections.

**User**

<b>Identifier</b>	<b>Name</b>	<b>Priority</b>	<b>Description</b>
US001	See Home	High	As a User, I want to access the website homepage, so that I can have an overview of the ongoing auctions and links for the other pages.
US002	Advanced Search	High	As a User, I want to search for all the public information, so that I can filter the auctions by the highest bids, the creation date, the car model brand, scale, colour, seller, or the remaining time.
US003	Auction Page	High	As a User, I want to be able to see an auction's information, so that I can know more about the car model being sold.
US004	See About Us	Medium	As a User, I want to access the About Us page, so that I can see a complete website's description.
US005	Profile Page	Medium	As a User, I want to see the profile page of another user, so that I can search all the auctions from this chosen user.
US006	FAQ Page	Low	As a User, I want to access the FAQ, so that I can see Frequently Asked Questions about the website.

Table 2: User's User Stories.

**Visitor**

<b>Identifier</b>	<b>Name</b>	<b>Priority</b>	<b>Description</b>
US101	Sign-In	High	As a Visitor, I want to log in to the system, so that I can access privileged features.
US102	Sign-Up	High	As a Visitor, I want to register myself into the system, so that I can store all my data in a personal account.
US103	Sign-In with external API	Low	As a Visitor, I want to sign-in through my Google account, so that I can access privileged features.
US104	Sign-Up with external API	Low	As a Visitor, I want to register using my Google account, so that I can store all my data in the system.

Table 3: Visitor's User Stories.

**Administrator**

<b>Identifier</b>	<b>Name</b>	<b>Priority</b>	<b>Description</b>
US201	Manage auctions	High	As an Administrator, I want to manage auctions, so that I can suspend or reschedule an auction.

<b>Identifier</b>	<b>Name</b>	<b>Priority</b>	<b>Description</b>
US202	Logout	High	As an Administrator, I want to logout, so that I can leave the system.
US203	Answer User Doubt	Low	As an Administrator, I want to answer a user's doubt in a private chat, so that I can clarify his questions.
US204	User Reports	Low	As an Administrator, I want to see users' reports, so that I can review users' activity and decide to ban them.
US205	Remove comments	Low	As an Administrator, I want to remove a comment on a user profile, so that there are no inappropriate observations on the website.
US206	Notifications	Low	As an Administrator, I want to receive notifications about questions received or user reports, so that I can be aware of what's happening.

Table 4: Administrator's User Stories.

**Registered**

<b>Identifier</b>	<b>Name</b>	<b>Priority</b>	<b>Description</b>
US300	Profile Page	High	As a Registered User, I want to have a profile page, so that I can view and update my personal information, favourites, and statistics.
US301	Logout	High	As a Registered User, I want to logout, so that I can leave the system.
US302	Manage Favourite Auctions	Medium	As a Registered User, I want to add/remove a given auction to/from my Favourite Auctions, so that I can be notified of important related events.
US303	Manage Favourite Sellers	Medium	As a Registered User, I want to add/remove a given seller to/from my Favourite Sellers, so that I can follow/unfollow his new auctions.
US304	Rating Users	Low	As a Registered User, I want to write comments on the profile of a given user and rate him, so that other users can know if he is trustworthy.
US305	Remove Comments	Low	As a Registered User, I want to remove my comments on the profile of a given user, so that it reflects my change of opinion.
US306	Question Administrators	Low	As a Registered User, I want to ask the administrators my questions in a private chat, so that I can clarify my doubts.
US307	Statistics	Low	As a Registered User, I want to see my statistics, so that I can have an overview of my auctions' and bids' history and money spent/earned.

<b>Identifier</b>	<b>Name</b>	<b>Priority</b>	<b>Description</b>
US308	Notifications	Low	As a Registered User, I want to receive notifications about favourite auctions and related activity, so that I can be aware of what's happening.
US309	Report Users	Low	As a Registered User, I want to report a given user, so that administrators can review this user's activity and ban him if needed.
US310	Delete Profile	Low	As a Registered User, I want to be able to delete my account, so that my relationship with the website is over.

Table 5: Registered's User Stories

**Seller**

<b>Identifier</b>	<b>Name</b>	<b>Priority</b>	<b>Description</b>
US401	Create an Auction	High	As a Seller, I want to create an auction, so that I can sell a model car.
US402	Access to Auction Statistics	Low	As a Seller, I want to access private auction data (like the number of bids, the respective bidders, or the price variation), so that I can have a better perception of the auction details.
US403	"Buy Now" Option	Low	As a Seller, I want to have the option to set a "Buy Now" price for the auction, so that I can give the opportunity to sell the car model instantaneously.

Table 6: Seller's User Stories.

**Bidder**

<b>Identifier</b>	<b>Name</b>	<b>Priority</b>	<b>Description</b>
US501	Bid in a given auction	High	As a Bidder, I want to bid in a given auction, so that I can try to buy the given model car.
US502	"Buy Now"	Low	As a Bidder, I want to trigger the "Buy Now" option if available, so that I can buy the car model without having to wait for the end of the auction.
US503	Comment an auction	Low	As a Bidder, I want to write a comment in an ongoing auction, so that the other users can be informed of my interest.

Table 7: Bidder's User Stories.

**2.3 Supplementary requirements:**

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

## Business rules

<b>Identifier</b>	<b>Name</b>	<b>Description</b>
BR01	Auction finish date	The auction finish date must be greater than the start date of the auction.
BR02	Auction duration	The auction needs to have a minimum time duration of one day and a maximum of 7 days.
BR03	Minimum bid	The auction must have an initial minimum value of 1 euro from where bids can be placed.
BR04	Auction requirements	Only registered and non-blocked members are allowed to bid or create new auctions.
BR05	Bidders details	Only the creator has access to the profile of those who bid on their auction.
BR06	Bids in growing order	A new bid must have a greater value than the previous set bid.
BR07	Auction self bid	The seller cannot bid on his own auction.
BR08	Deleted user	When a user is deleted, active auctions and bids are canceled, its profile info is deleted, but not its history (past auctions/bids).

Table 8: Business rules.

## Technical requirements

<b>Identifier</b>	<b>Name</b>	<b>Description</b>
TR01	Availability	The system must be available ideally all the time and prepared to handle and continue operating when runtime errors occur.
TR02	Security	The system shall protect information from unauthorized access through the use of an authentication and verification system.
TR03	Data Consistency	The system must be synchronous and consistent for all the users (for example, the remaining time of the auction should be the same for all users).

Table 9: Technical requirements.

## Restrictions

<b>Identifier</b>	<b>Name</b>	<b>Description</b>
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<b>Identifier</b>	<b>Name</b>	<b>Description</b>
C01	Project Deadline	The system should be ready to be used at the project submission deadline (31/05/2021) to be able to buy or sell car models.
C03	Artifacts Delivery	All the intermediate deadlines must be met, according to the course agenda.
C03	Development Interruptions	The development activities will be interrupted during the Easter, and the LBAW exam.

Table 10: Restrictions.

## A3: User Interface Prototype

This section pretends to associate the page design with the user stories described in the previous artefact, alongside new ones that came to our mind during this artefact's development. The prototype must allow us to test the user interface's main interactions and the navigation between the distinct pages.

In this artefact, we include a description of the website interface and its common features, using some screenshots to highlight the main functionalities. We also include a sitemap presenting the overall structure of the website from the user's viewpoint, containing all the pages the site has. At last, we have organized a sequence of wireflows initially designed to show our website design and interface main ideas.

At the end of this document, there are prints of the website pages implemented for the prototype.

### 3.1 Interface and common features

Carbay is a web application based on HTML5, JavaScript, CSS, and PHP.

As requested by the project enunciate, the user interface of the website was implemented using the Bootstrap framework.

All the website pages will have the following common elements, whose positions are highlighted in the figure:

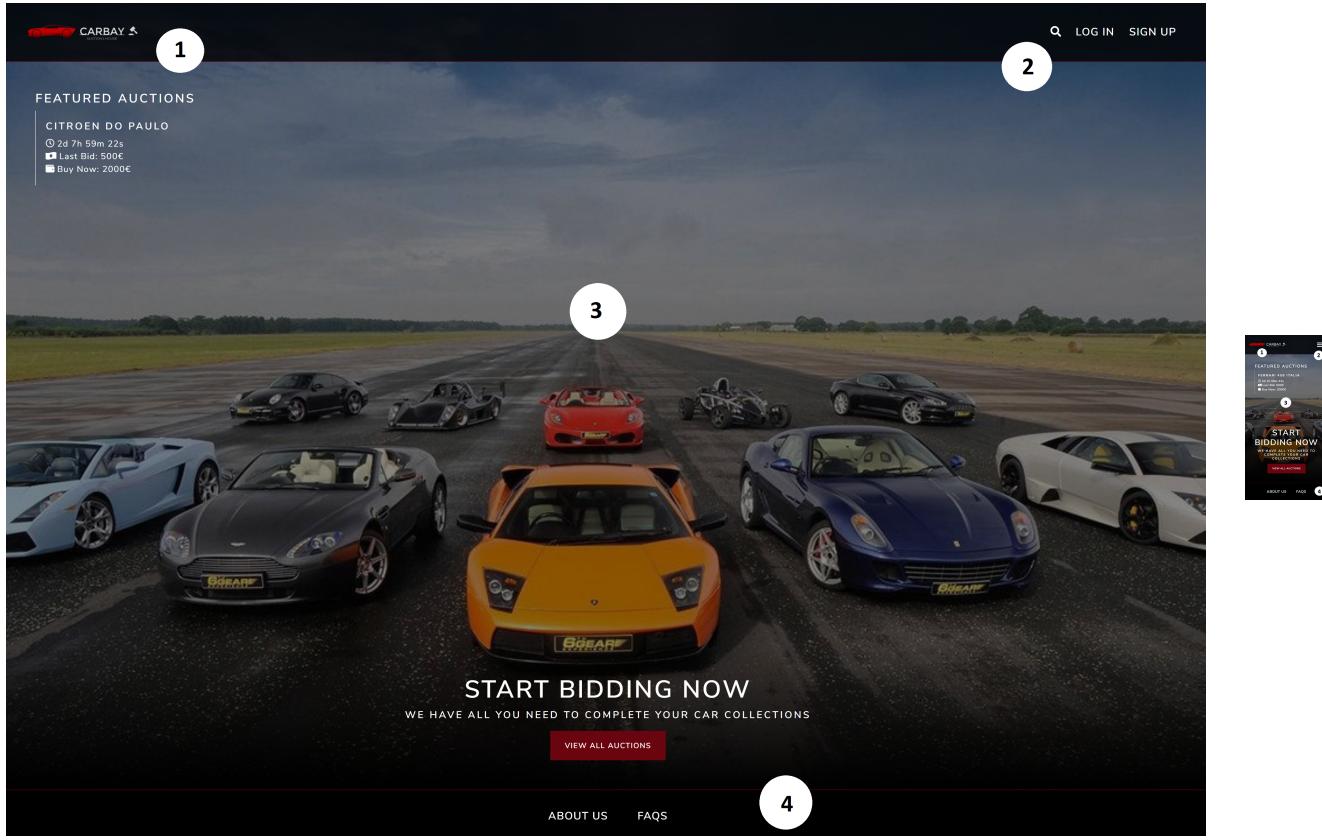


Figure 2: Interface's guidelines

1. **Logo:** When clicked, it redirects the user to the homepage

2. **Navbar:**

- From a visitor perspective, it contains links to the search, login, and signup pages
- When logged in, it contains links to the search, create auction and profile pages, and also a notifications icon and a logout button.

3. **Content:** Depends on the current page

4. **Footer:**

- From a visitor perspective, it contains links to About Us and FAQs pages
- When logged in, it also contains a link to the Help page.

Some common characteristics between all the pages are:

- Responsive behaviour, since every page adapts itself to the size of the screen, therefore allowing the website to be accessed by different devices (laptop, tablets, smartphones...)
- In order to keep the website consistent, and to enhance the user experience, the common elements of the pages maintain their position - the navbar is fixed on the top of the screen and the footer at the end.
- Consistency of the page components - we decided to maintain the design of the elements composing the page, by using only our theme's colours, a centred vision of the content of the page, a rectangular shape for buttons and sections, and the same text font ("Nunito Sans").
- Simplicity of the user interface - the majority of the links are represented by icons, representative of the target page's functionalities, and no page contains too much-concentrated information.
- Apart from the Homepage, every page contains a breadcrumb, helping locate the user on the website.

### 3.2 Sitemap

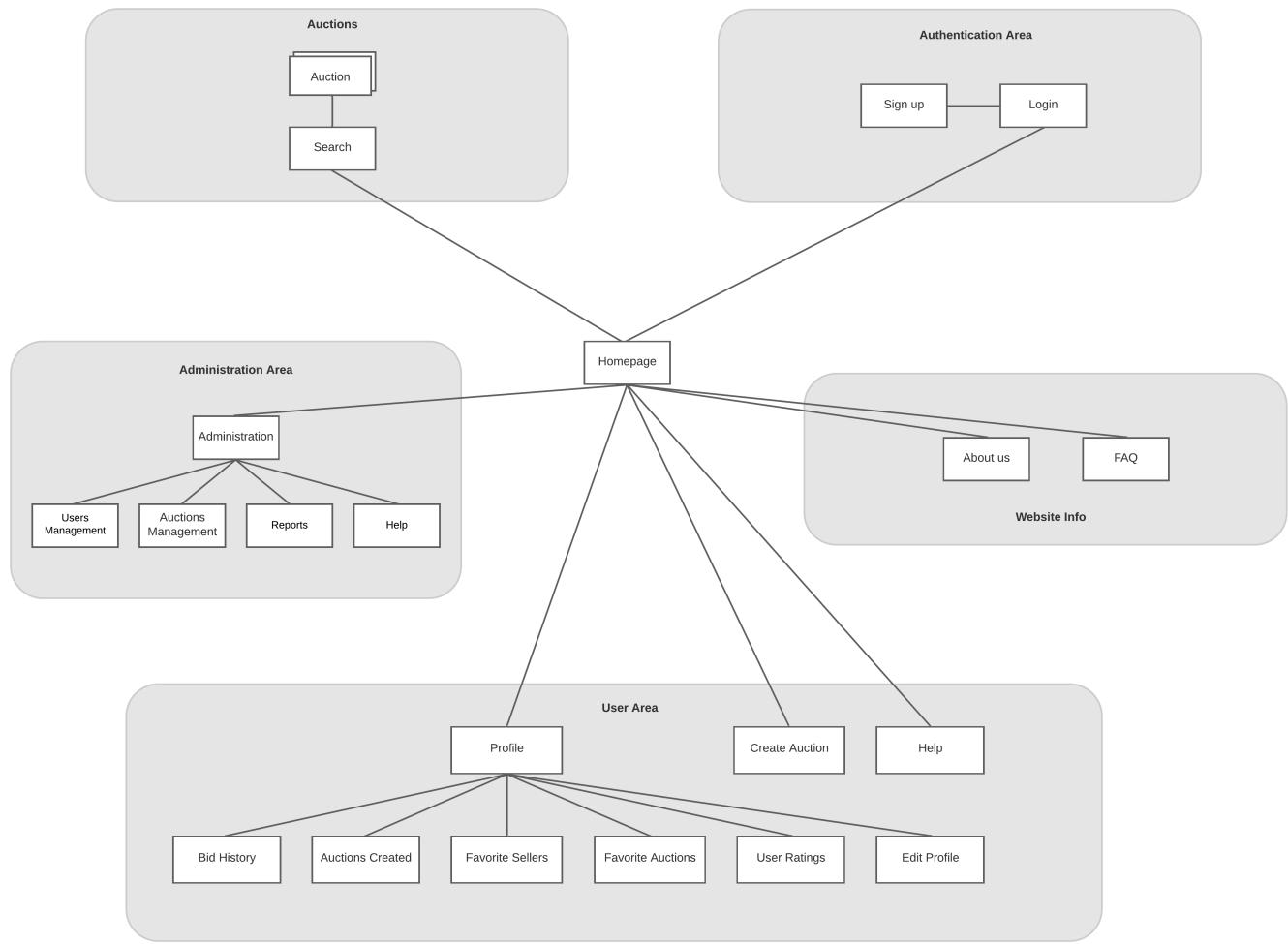


Figure 3: Sitemap.

### 3.3 Wireflows

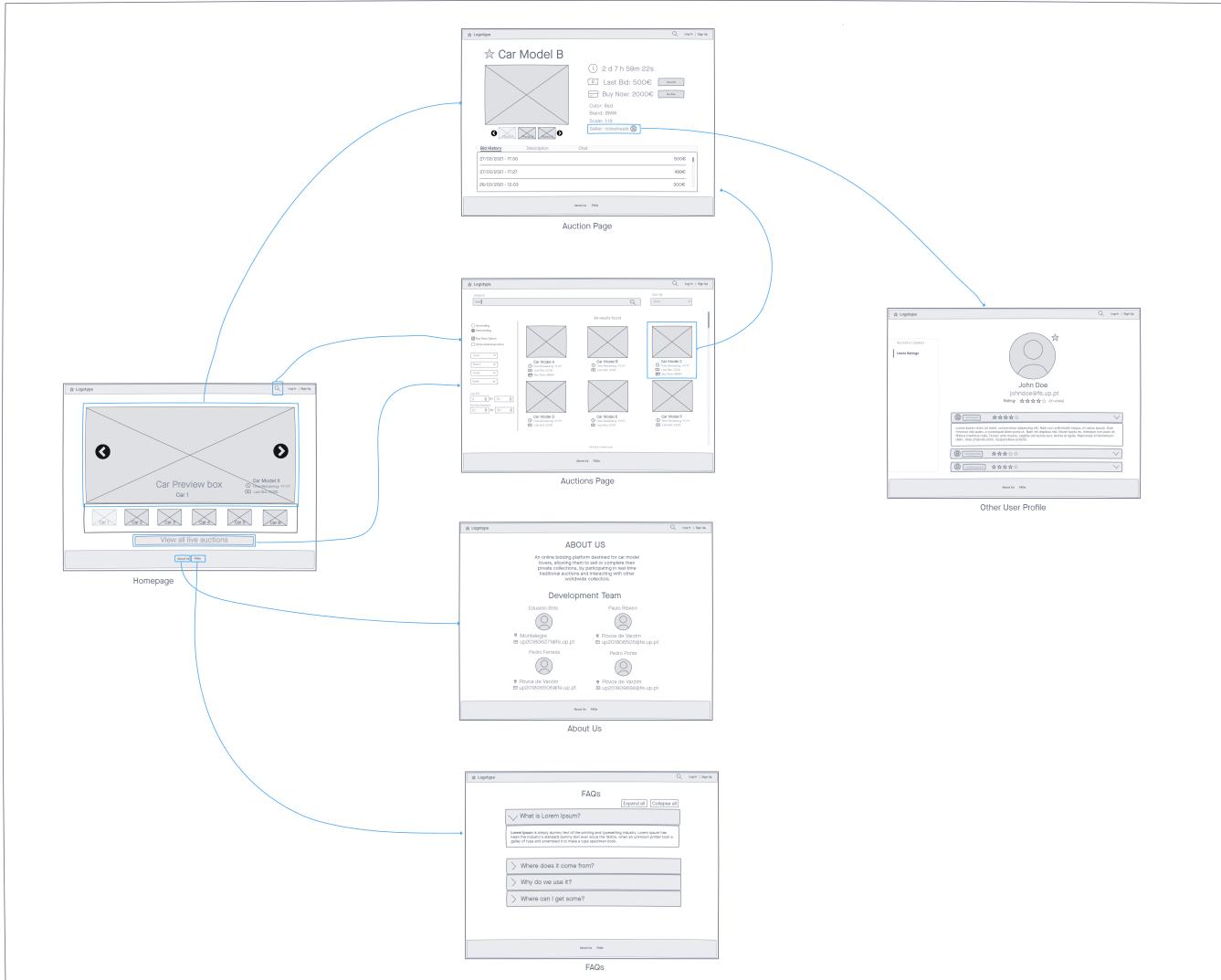


Figure 4: Wireflow centered on the visitor's options.

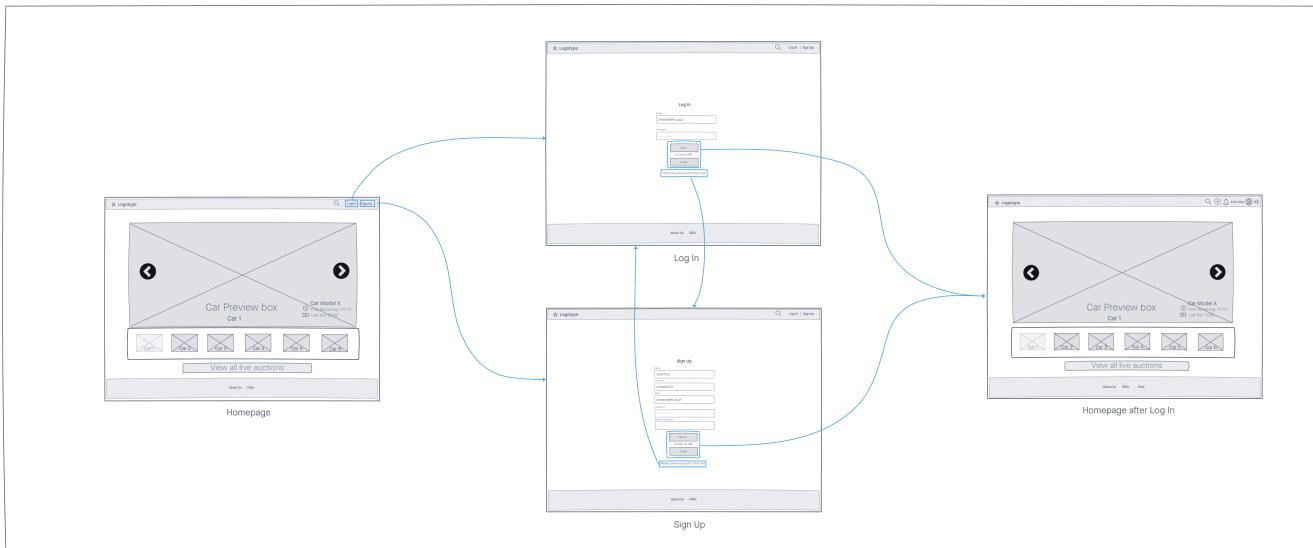


Figure 5: Wireflow for the log-in and sign-up interactions.

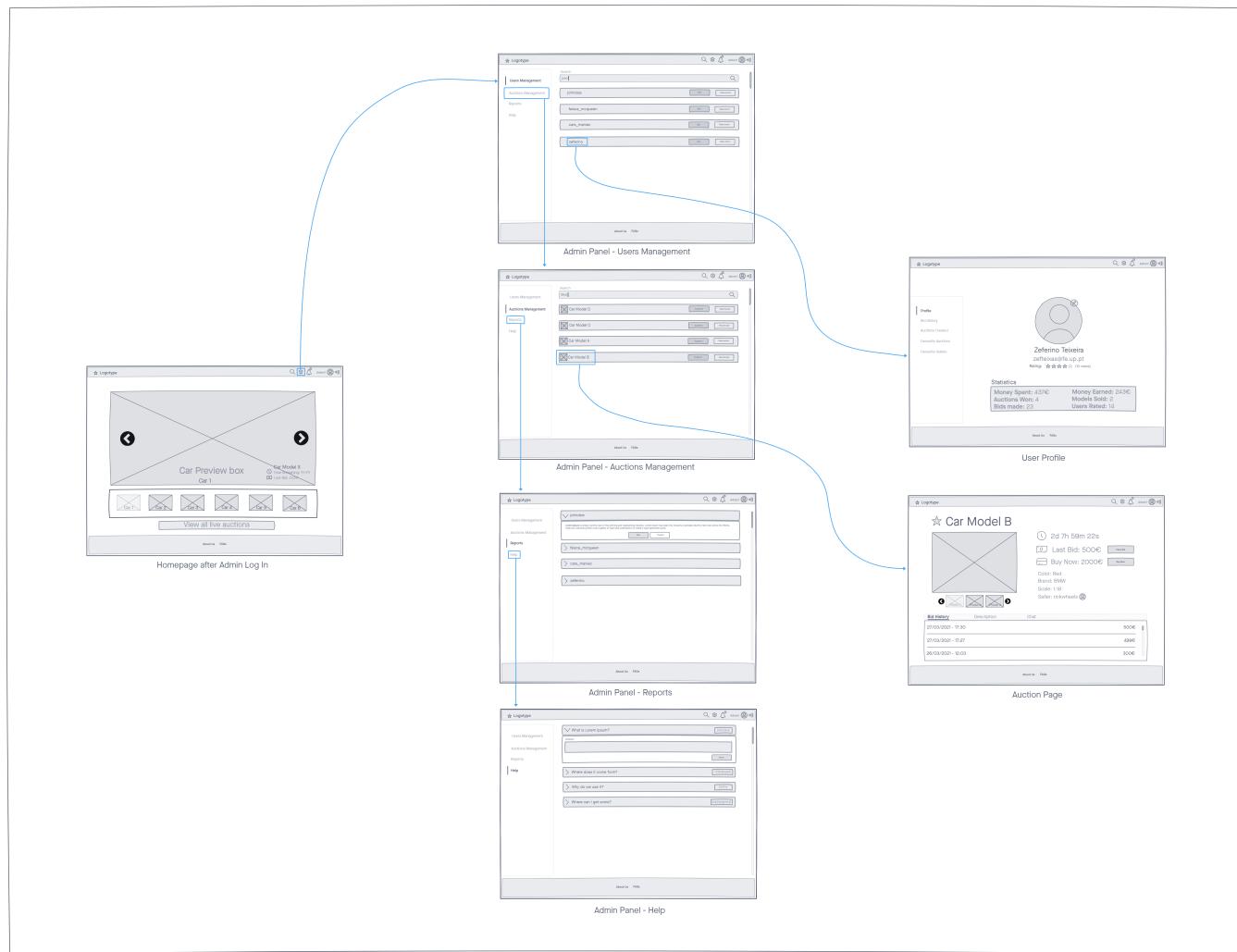


Figure 6: Wireflow centered on the admin's options.

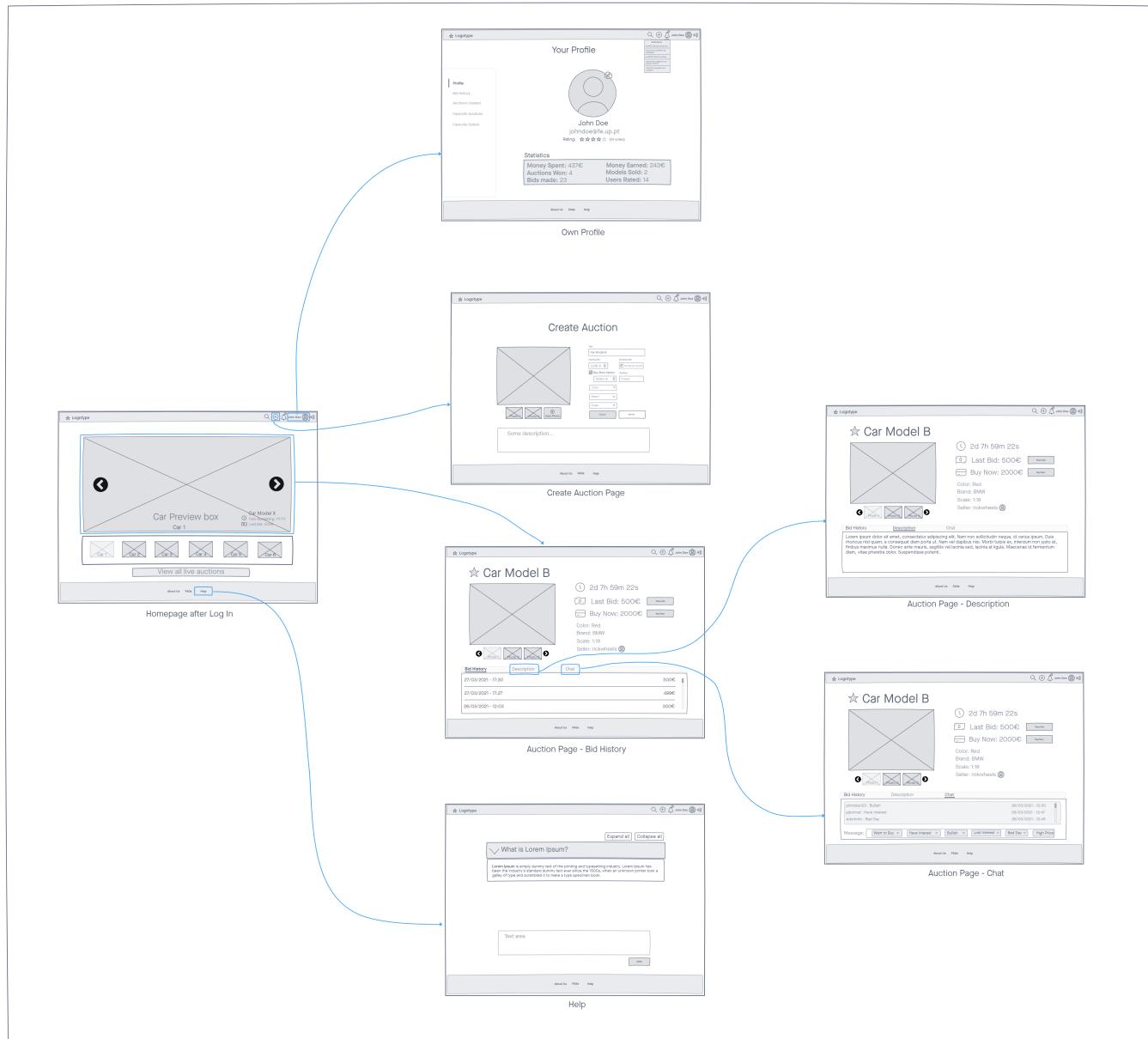


Figure 7: Wireflow centered on the registered user's options.

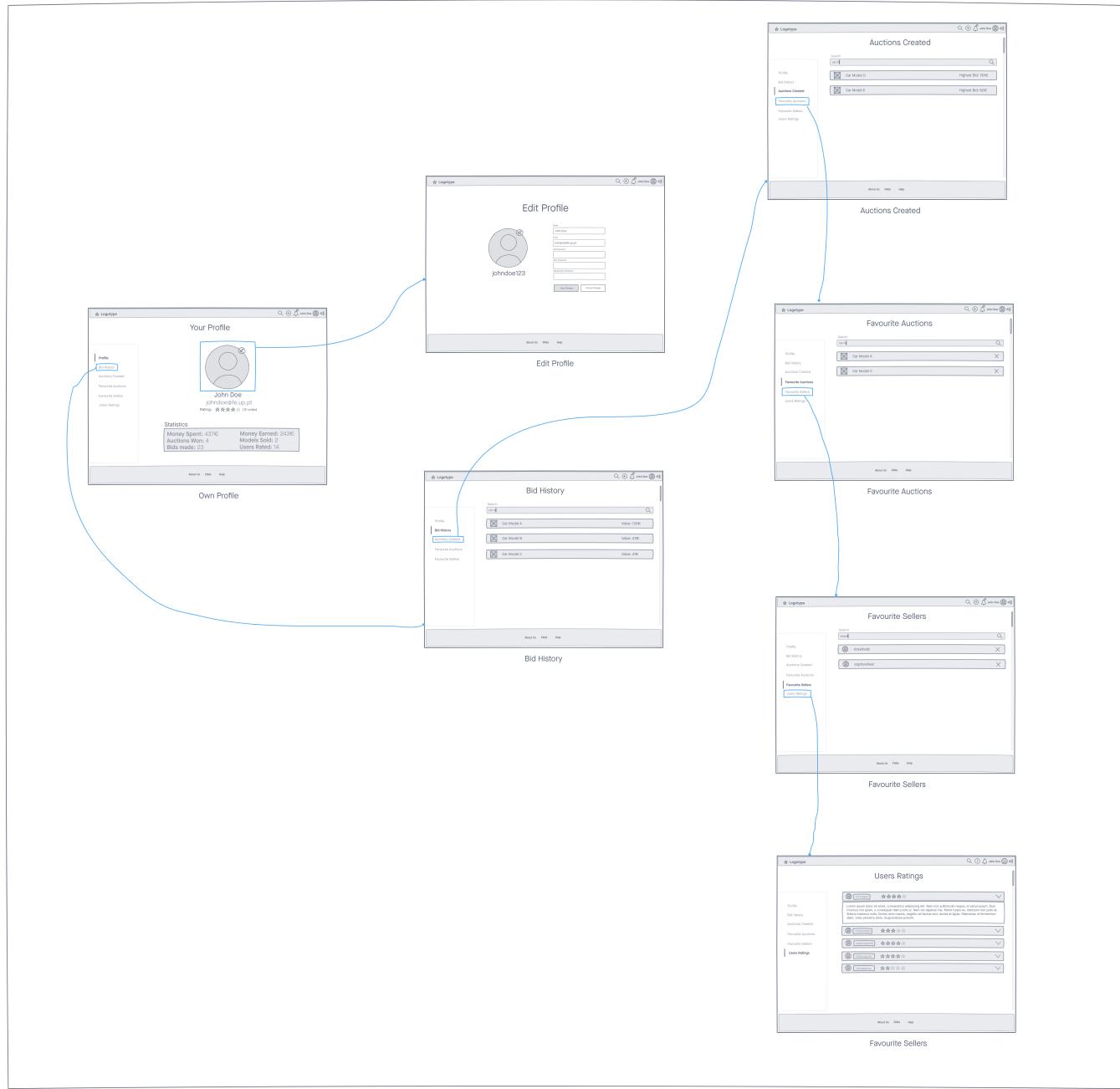


Figure 8: Wireflow centered on the user's profile options.

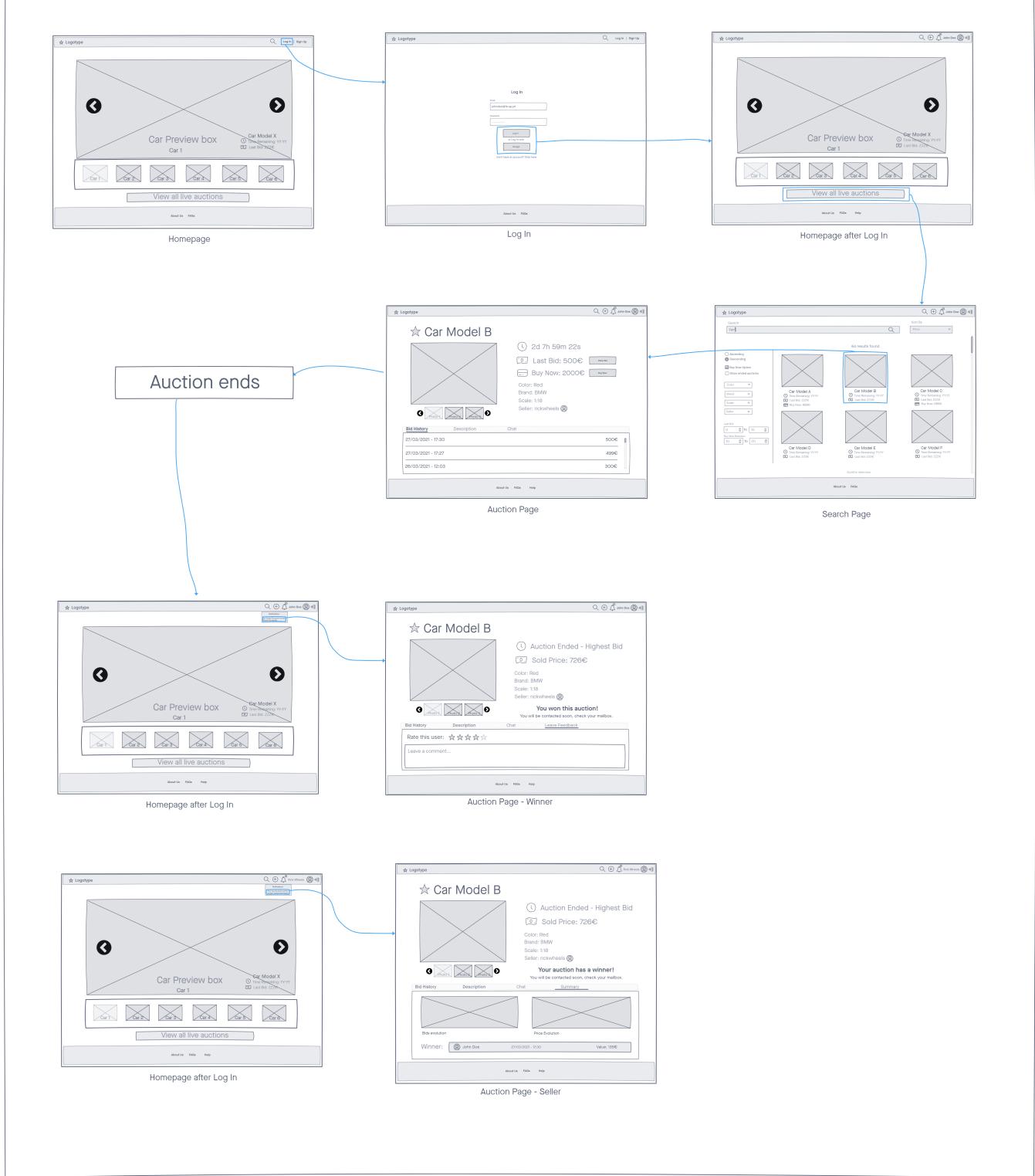


Figure 9: Wireflow centered on the end of an auction.

## InVision Project

### 3.4 Interfaces

The following interfaces represent our platform's look and available features.

- [UI01: Homepage](#)
- [UI02: About Us](#)
- [UI03: Faqs](#)

- UI04: Help
- UI05: Log In
- UI06: Sign Up
- UI07: Search
- UI08: Auction Page - Chat
- UI09: Auction Page - Bid History
- UI10: Create Auction - General Info
- UI11: Create Auction - Description
- UI12: Profile
- UI13: Edit Profile
- UI14: Profile - Bid History
- UI15: Profile - Auctions Created
- UI16: Profile - Favourite Auctions
- UI17: Profile - Favourite Sellers
- UI18: Profile - Users Ratings
- UI19: Profile - Users Rated
- UI20: Admin Panel - Users Management
- UI21: Admin Panel - Auctions Management
- UI22: Admin Panel - Reports
- UI23: Admin Panel - Help
- UI24: Error 404

## UI01: Homepage

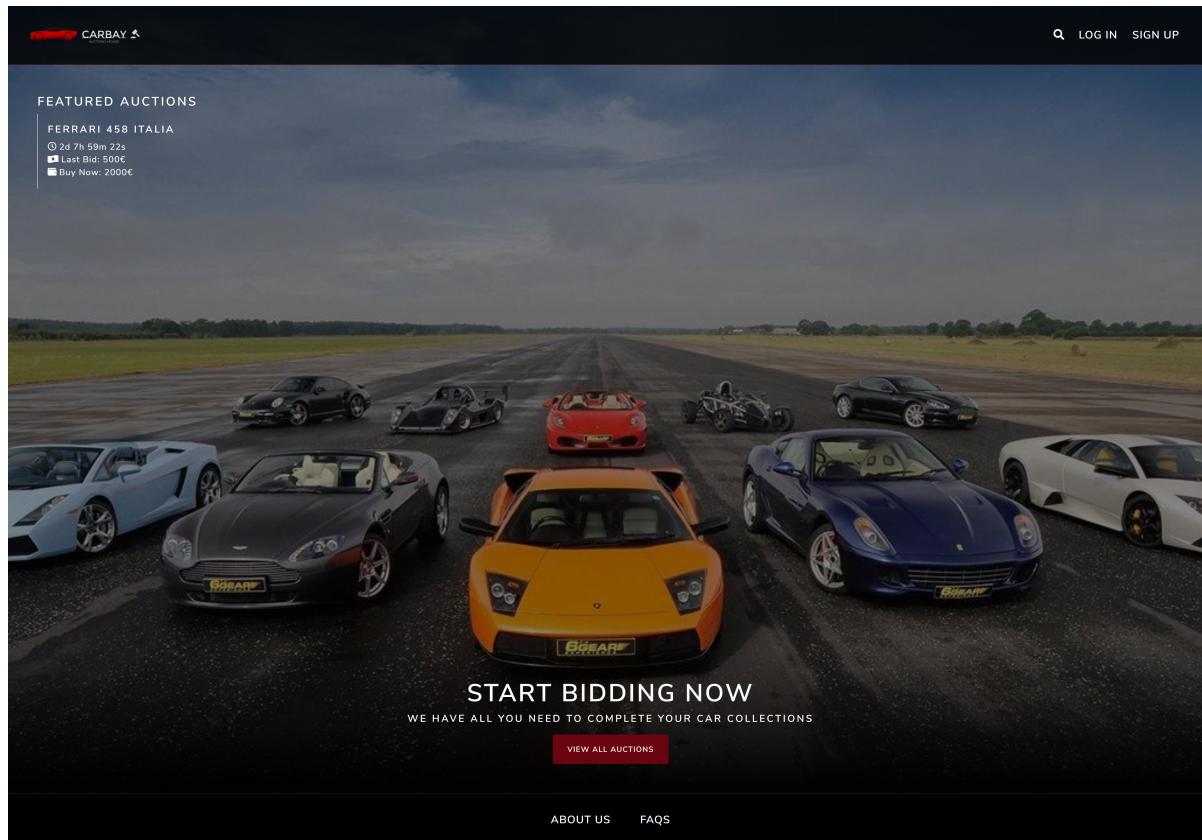


Figure 10: Homepage

## UI02: About Us

ABOUT

An online bidding platform destined for car model lovers, allowing them to sell or complete their private collections, by participating in real-time traditional auctions and interacting with other worldwide collectors.

**DEVELOPMENT TEAM**

<p><b>EDUARDO BRITO</b></p> <p>• MONTALEGRE ✉ UP201806271@FE.UP.PT</p>	<p><b>PAULO RIBEIRO</b></p> <p>• PÓVOA DE VARZIM ✉ UP201806505@FE.UP.PT</p>
<p><b>PEDRO FERREIRA</b></p> <p>• PÓVOA DE VARZIM ✉ UP201806506@FE.UP.PT</p>	<p><b>PEDRO PONTE</b></p> <p>• PÓVOA DE VARZIM ✉ UP201809694@FE.UP.PT</p>

**DEVELOPMENT TEAM**

<p><b>EDUARDO BRITO</b></p> <p>• MONTALEGRE ✉ UP201806271@FE.UP.PT</p>	<p><b>PAULO RIBEIRO</b></p> <p>• PÓVOA DE VARZIM ✉ UP201806505@FE.UP.PT</p>
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ABOUT US    FAQS

Figure 11: About Us

## UI03: Faqs

FAQS

**1. WHAT IS THE FAQ PAGE?**

The FAQ (Frequently Asked Questions) is a page where we include the questions we believe to be more relevant if you are familiarized with our services.

**2. HOW DO I REGISTER IN THE WEBSITE?**

To register in the website simply click the top right button saying "SIGN UP". From there fill in the fields with your information or click the bottom option if you want to sign up with google services.

**3. DO I NEED TO PAY TO CREATE AN ACCOUNT?**

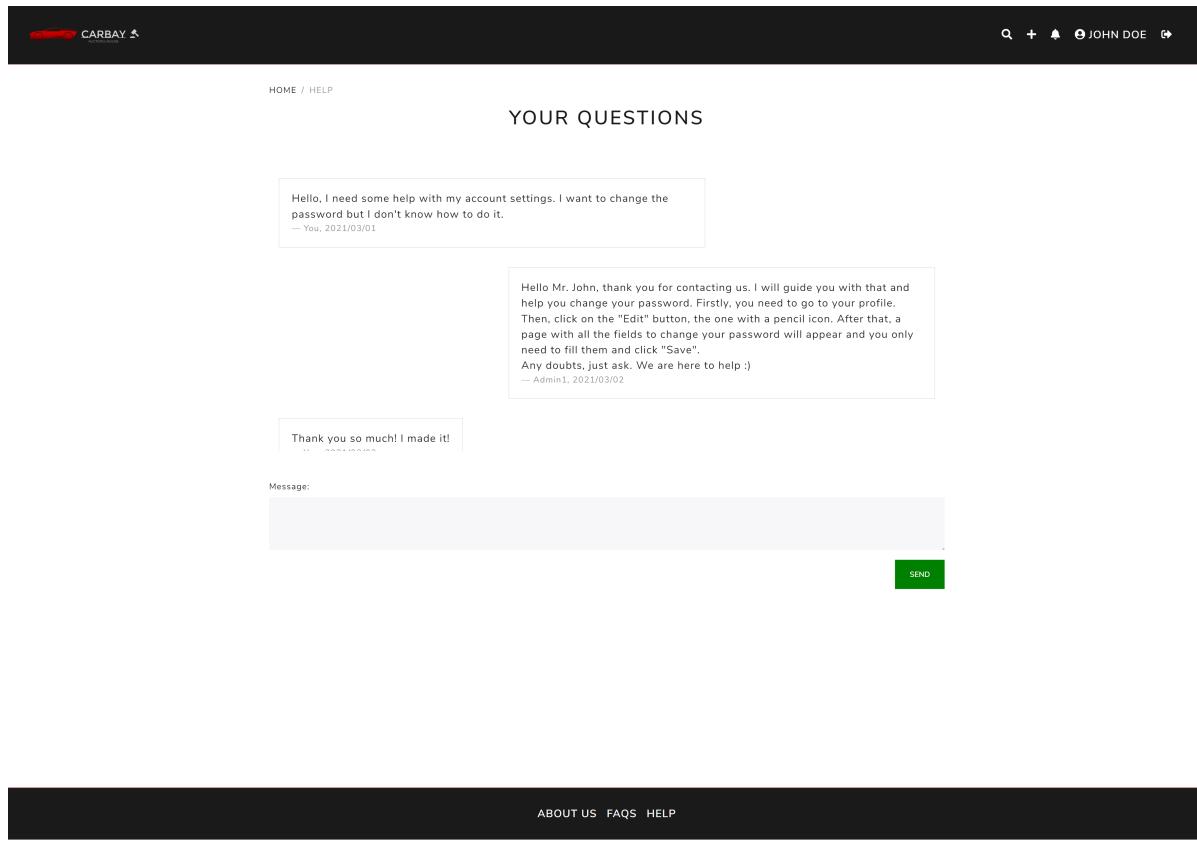
No! You can create an account completely free!

**4. WHY CAN'T I MAKE A BID?**

You can only participate in auctions if you are logged in! If you do not own an account click "SIGN UP" on right top corner of this page and make your registration.

**FAQS**

**ABOUT US**    **FAQS**

Figure 12: [FAQs](#)**UI04: Help**Figure 13: [Help](#)**UI05: Log In**

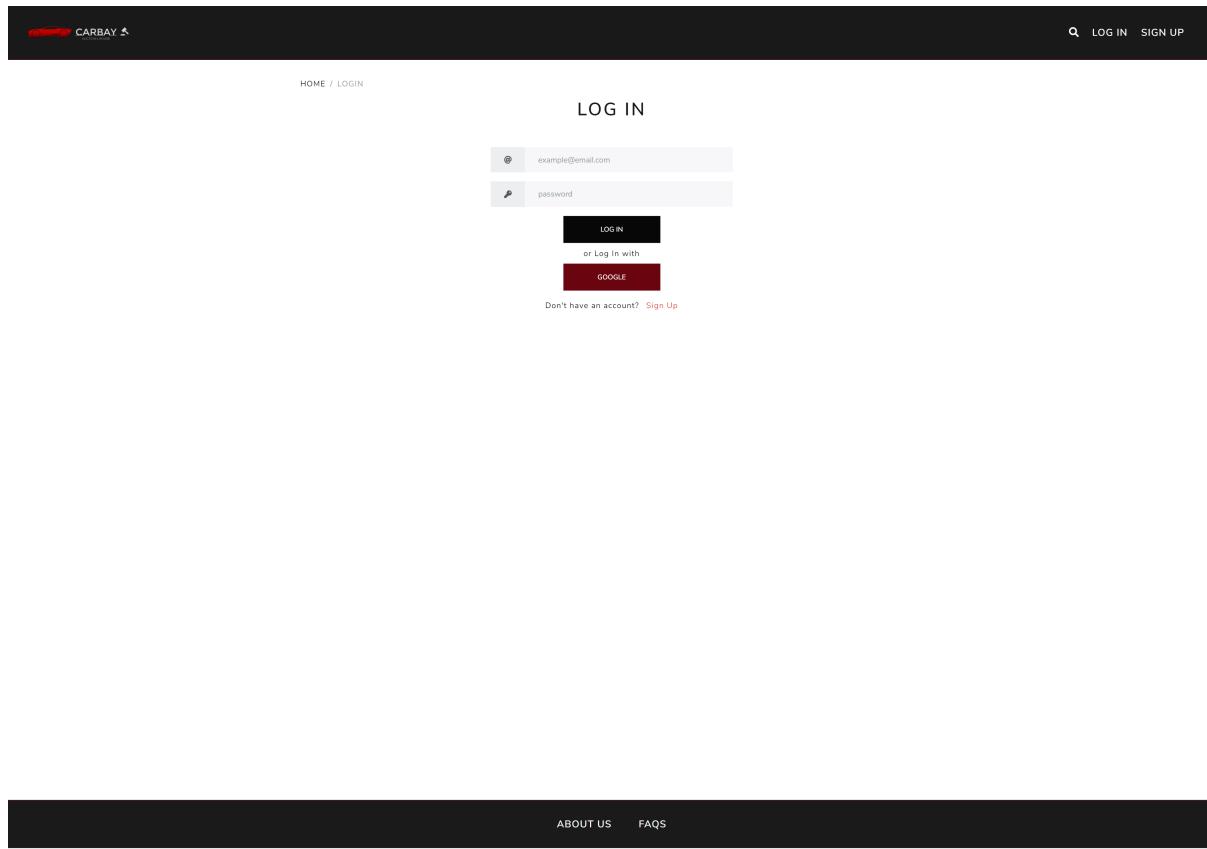


Figure 14: [Log In](#)

## UI06: Sign Up

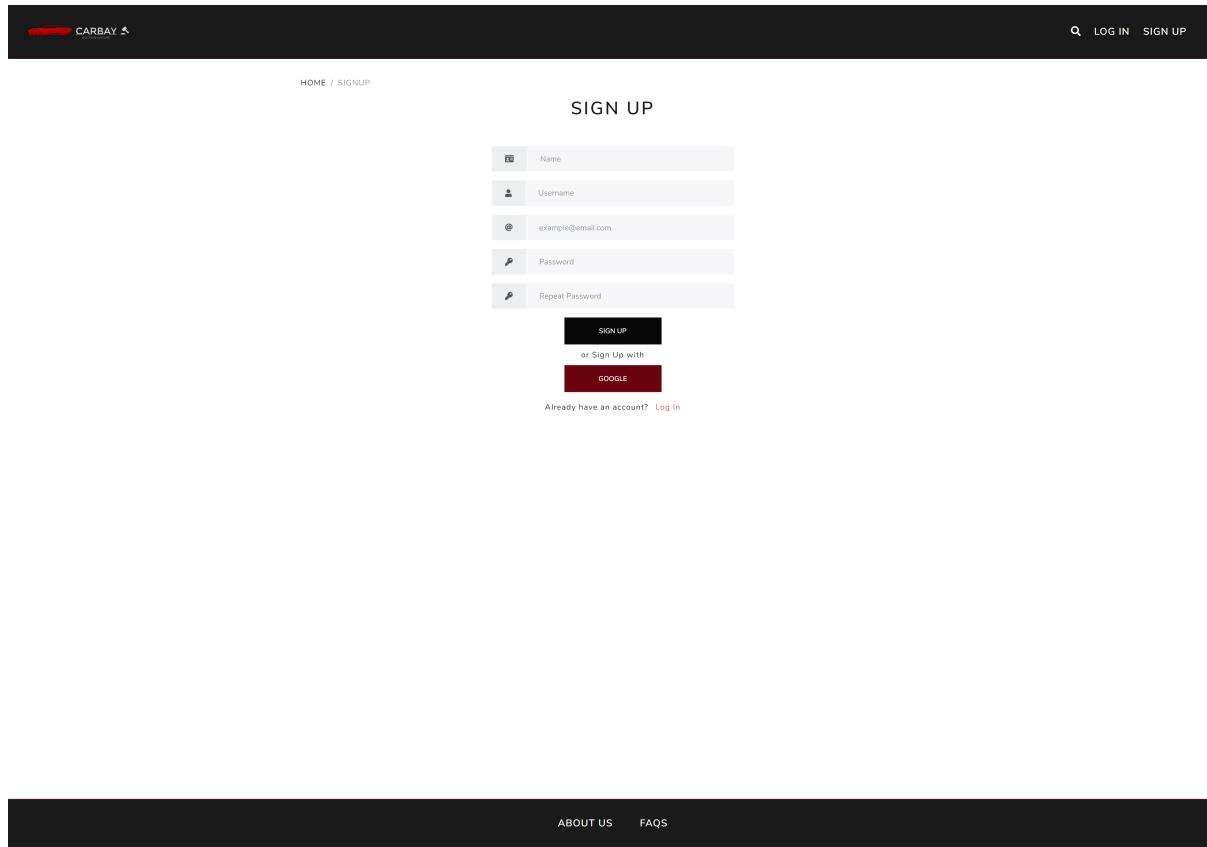


Figure 15: [Sign Up](#)

## UI07: Search

**HOME / SEARCH**

Search

**ADVANCED SEARCH**

Sort By: Time Remaining (Descending selected)

Buy Now option (checked)

Show ended auctions (unchecked)

Filter By:

- Color
- Brand
- Scale
- Seller

Last Bid between: 10 - 100

Buy Now between: 10 - 100

**APPLY**

**12 AUCTIONS FOUND**

<b>FERRARI PORTOFINO</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$ johndoe (⭐ 4.8)	<b>BUGATTI CHIRON</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$ johndoe (⭐ 4.8)	<b>LAMBORGHINI VENENO</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$ johndoe (⭐ 4.8)
<b>BENTLEY CONTINENTAL</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$ johndoe (⭐ 4.8)	<b>PAGANI HUAYRA ROADSTER</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$ johndoe (⭐ 4.8)	<b>LAMBORGHINI AVENTADOR S ROADSTER</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$ johndoe (⭐ 4.8)
<b>FERRARI 812 SUPERFAST</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$ johndoe (⭐ 4.8)	<b>FERRARI LAFERRARI APERTA</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$ johndoe (⭐ 4.8)	<b>FERRARI F12 TDF</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$ johndoe (⭐ 4.8)
<b>FERRARI 458 SPECIALE A</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$	<b>BUGATTI CHIRON ZERO - 400 - ZERO REAR WING UP</b> ⌚ 2:35:17 \$ 500\$	<b>LAMBORGHINI CENTENARIO ROADSTER</b> ⌚ 2:35:17 \$ 500\$

**ABOUT US FAQS HELP**

**HOME / SEARCH**

Search

**SEARCH**

**ADVANCED SEARCH**

**12 AUCTIONS FOUND**

<b>FERRARI PORTOFINO</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$ johndoe (⭐ 4.8)
<b>BUGATTI CHIRON</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$ johndoe (⭐ 4.8)
<b>LAMBORGHINI VENENO</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$ johndoe (⭐ 4.8)
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<b>FERRARI 812 SUPERFAST</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$ johndoe (⭐ 4.8)
<b>FERRARI LAFERRARI APERTA</b> ⌚ 2:35:17 \$ 500\$ \$ 2000\$ johndoe (⭐ 4.8)

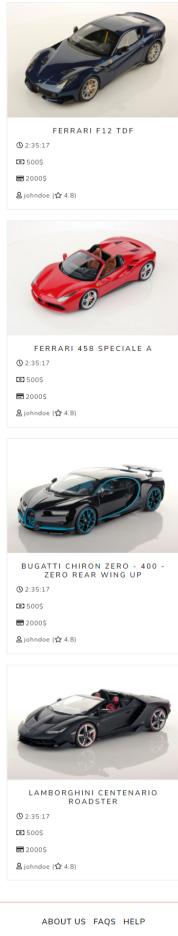


Figure 16: Search

**UI08: Auction Page - Chat**

CARBAY

HOME / AUCTION

### ☆ FERRARI 812 SUPERFAST



⌚ 2d 7h 59m 22s  
>Last Bid: 135€  
Buy Now: 2000€

Color: Rosso Scuderia  
Brand: Ferrari  
Scale: 1:18  
Seller: rickwheels

BUY NOW PLACE BID

The most powerful and performing Ferrari ever made: this is the Ferrari 812 Superfast, the new masterpiece from the house of the Prancing Horse that was unveiled at Geneva Motor Show 2017. A V12 engine with 800 HP will give to this supercar the incredible speed of 340 km/h.

Chat	Bid History
johndoe123: Bullish	27-03-2020 17:30
edurbrito: Lost Interest! It seems a huge scam :/	27-03-2020 17:27
pjbormxd: I will try again later	27-03-2020 17:22
johndoe123: Message:	27-03-2020 17:30

ABOUT US FAQS HELP

CARBAY

HOME / AUCTION

### ☆ FERRARI 812 SUPERFAST



⌚ 2d 7h 59m 22s  
Last Bid: 135€  
Buy Now: 2000€

Color: Rosso Scuderia  
Brand: Ferrari  
Scale: 1:18  
Seller: rickwheels

BUY NOW PLACE BID

The most powerful and performing Ferrari ever made: this is the Ferrari 812 Superfast, the new masterpiece from the house of the Prancing Horse that was unveiled at Geneva Motor Show 2017. A V12 engine with 800 HP will give to this supercar the incredible speed of 340 km/h.

Chat	Bid History
johndoe123: Bullish	27-03-2020 17:30
edurbrito: Lost Interest! It seems a huge scam :/	27-03-2020 17:27
pjbormxd: I will try again later	27-03-2020 17:22
johndoe123: Message:	27-03-2020 17:30

SEND

ABOUT US FAQS HELP

Figure 17: Auction

**UI09: Auction Page - Bid History**

The screenshot shows the auction page for a Ferrari 812 Superfast. At the top, there is a navigation bar with the CARBAY logo, a search bar, and a user profile for JOHN DOE. Below the navigation bar, the main content area displays the title "★ FERRARI 812 SUPERFAST". A large image of the red Ferrari 812 Superfast is shown, along with its technical specifications: Color: Rosso Scuderia, Brand: Ferrari, Scale: 1:18, and Seller: rickwheels. There are two buttons: "BUY NOW" and "PLACE BID". The current auction duration is 2d 7h 59m 22s. The last bid was 135€, and the buy now price is 2000€. A detailed description of the car is provided, stating it is the most powerful and performing Ferrari ever made, unveiled at the Geneva Motor Show 2017, with a V12 engine and 800 HP. The sidebar on the right shows a preview of the auction details and a small image of the car.

Date	Bid Amount
27-03-2020 17:30	135€
27-03-2020 17:22	127€
27-03-2020 12:10	105€
26-03-2020 23:54	69€
26-03-2020 23:12	33€

Figure 18: Auction

**UI10: Create Auction - General Info**

ABOUT US FAQS HELP

Figure 19: Create Auction

**UI11: Create Auction - Description**

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Figure 20: Create Auction

**UI12: Profile**

The screenshot shows the profile page for 'JOHN DOE'. At the top, there's a navigation bar with a search icon, a plus sign, a bell icon, and a user icon labeled 'JOHN DOE'. Below the navigation is a breadcrumb trail 'HOME / PROFILE'. On the left, a sidebar menu includes 'Profile', 'Bid History', 'Auctions Created', 'Favourite Auctions', 'Favourite Sellers', 'Users Ratings', and 'Users Rated'. The main content area is titled 'MY PROFILE' and features a profile picture of a man in a suit. Below the picture, the name 'JOHN DOE' is displayed, along with the email 'john.doe@fe.up.pt' and a rating of '★★★★☆ (10 VOTES)'. A red 'EDIT PROFILE' button is located at the bottom right of this section. To the right of the profile picture, there's a sidebar with a smaller profile picture and links for 'HOME', 'PROFILE', 'ABOUT US', 'FAQS', 'HELP', 'LOGOUT', and 'EDIT PROFILE'. The central part of the page is titled 'STATISTICS' and contains six boxes: 'MONEY SPENT' (427€), 'AUCTIONS WON' (4), 'BIDS MADE' (23), 'MONEY EARNED' (243€), 'MODELS SOLD' (2), and 'USERS RATED' (14). At the bottom of the page is a dark footer bar with 'ABOUT US', 'FAQS', and 'HELP' links.

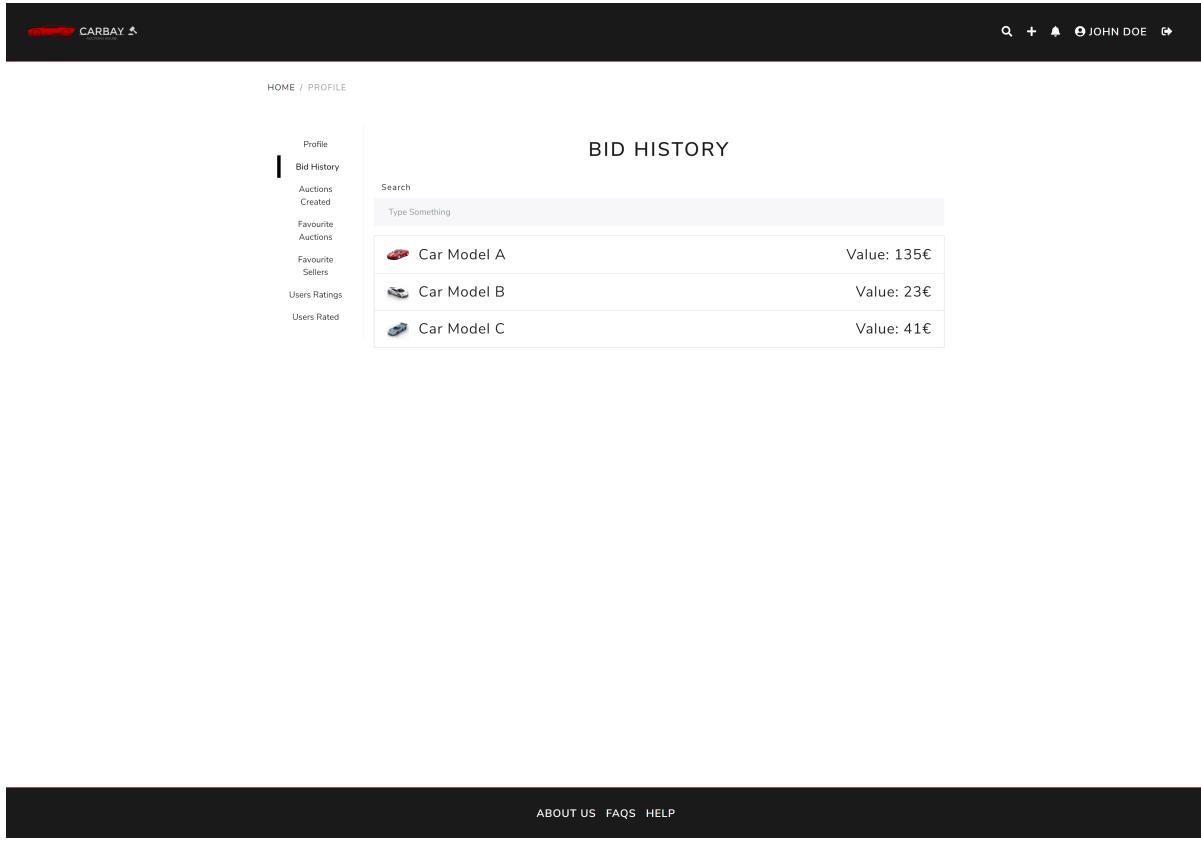
Figure 21: Profile

**UI13: Edit Profile**

The screenshot shows the 'EDIT PROFILE' page for 'JOHNDOE123'. At the top, there's a navigation bar with a search icon, a plus sign, a bell icon, and a user icon labeled 'JOHN DOE'. Below the navigation is a breadcrumb trail 'HOME / EDIT PROFILE'. The main content area is titled 'EDIT PROFILE' and features a profile picture of a man in a suit. Below the picture, the name 'JOHNDOE123' is displayed. To the right of the profile picture, there are four input fields: 'John Doe' (text field), 'johnmamandoe@thebest.com' (email field), 'Current Password' (password field), and 'New Password' (password field). Below these fields are two buttons: 'DISCARD CHANGES' and 'SAVE CHANGES'. At the bottom left is a 'UPLOAD PHOTO' button. To the right of the input fields is a sidebar with a smaller profile picture and links for 'HOME', 'PROFILE', 'ABOUT US', 'FAQS', 'HELP', 'LOGOUT', and 'EDIT PROFILE'. At the very bottom of the page is a dark footer bar with 'ABOUT US', 'FAQS', and 'HELP' links.

Figure 22: Edit Profile

**UI14: Profile - Bid History**

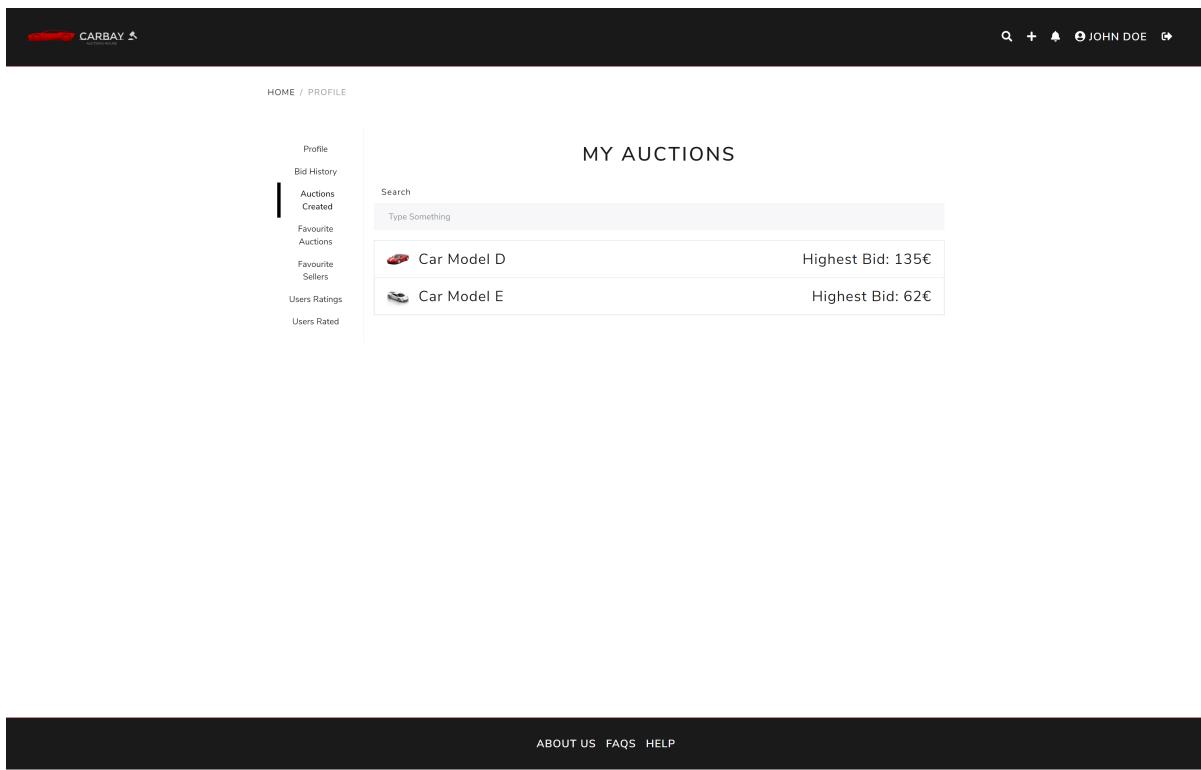


The screenshot shows the Carbay profile page. At the top, there is a navigation bar with the Carbay logo, a search bar, and a user account section for "JOHN DOE". Below the navigation bar, the page title is "HOME / PROFILE". On the left, a sidebar menu includes "Profile", "Bid History" (which is currently selected), "Auctions Created", "Favourite Auctions", "Favourite Sellers", "Users Ratings", and "Users Rated". The main content area is titled "BID HISTORY" and contains a search bar and a table with three rows:

	Car Model A	Value: 135€
	Car Model B	Value: 23€
	Car Model C	Value: 41€

On the right side of the page, there is a small preview window showing the same bid history data.

Figure 23: Profile

**UI15: Profile - Auctions Created**


The screenshot shows the Carbay profile page. At the top, there is a navigation bar with the Carbay logo, a search bar, and a user account section for "JOHN DOE". Below the navigation bar, the page title is "HOME / PROFILE". On the left, a sidebar menu includes "Profile", "Bid History", "Auctions Created" (which is currently selected), "Favourite Auctions", "Favourite Sellers", "Users Ratings", and "Users Rated". The main content area is titled "MY AUCTIONS" and contains a search bar and a table with two rows:

	Car Model D	Highest Bid: 135€
	Car Model E	Highest Bid: 62€

On the right side of the page, there is a small preview window showing the same auction data.

Figure 24: Profile

**UI16: Profile - Favourite Auctions**

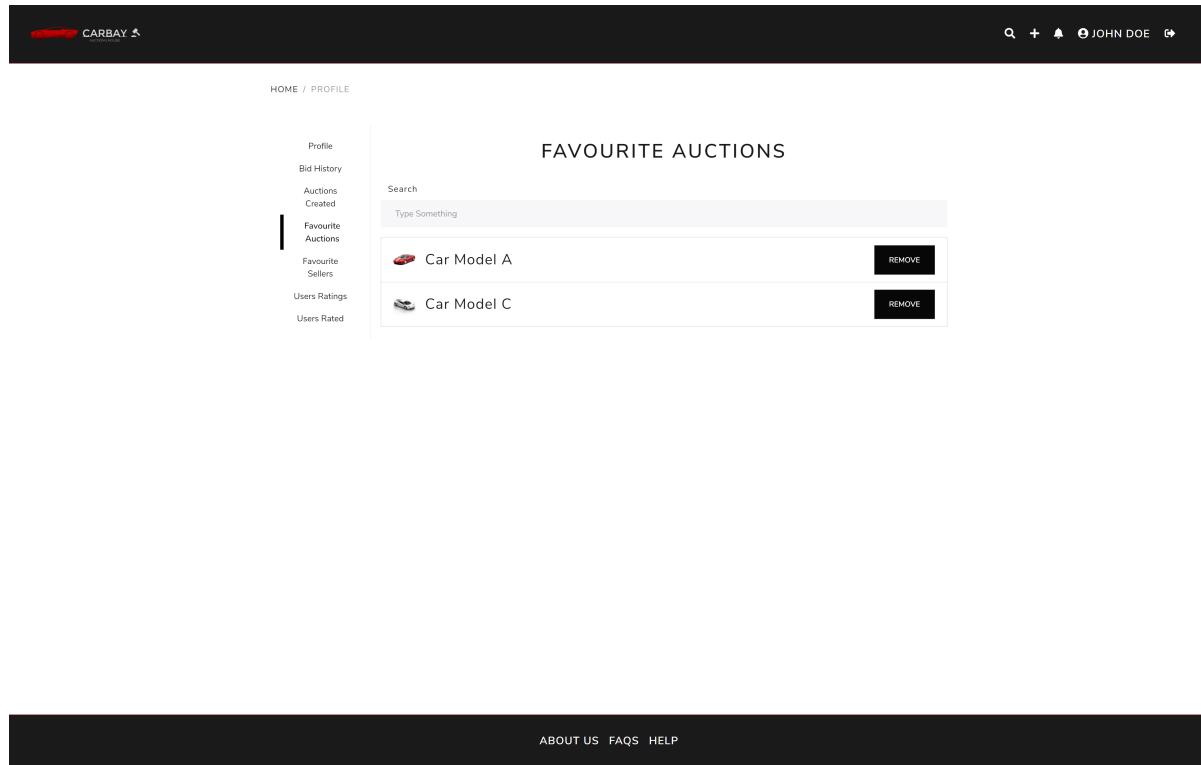


Figure 25: Profile

### UI17: Profile - Favourite Sellers

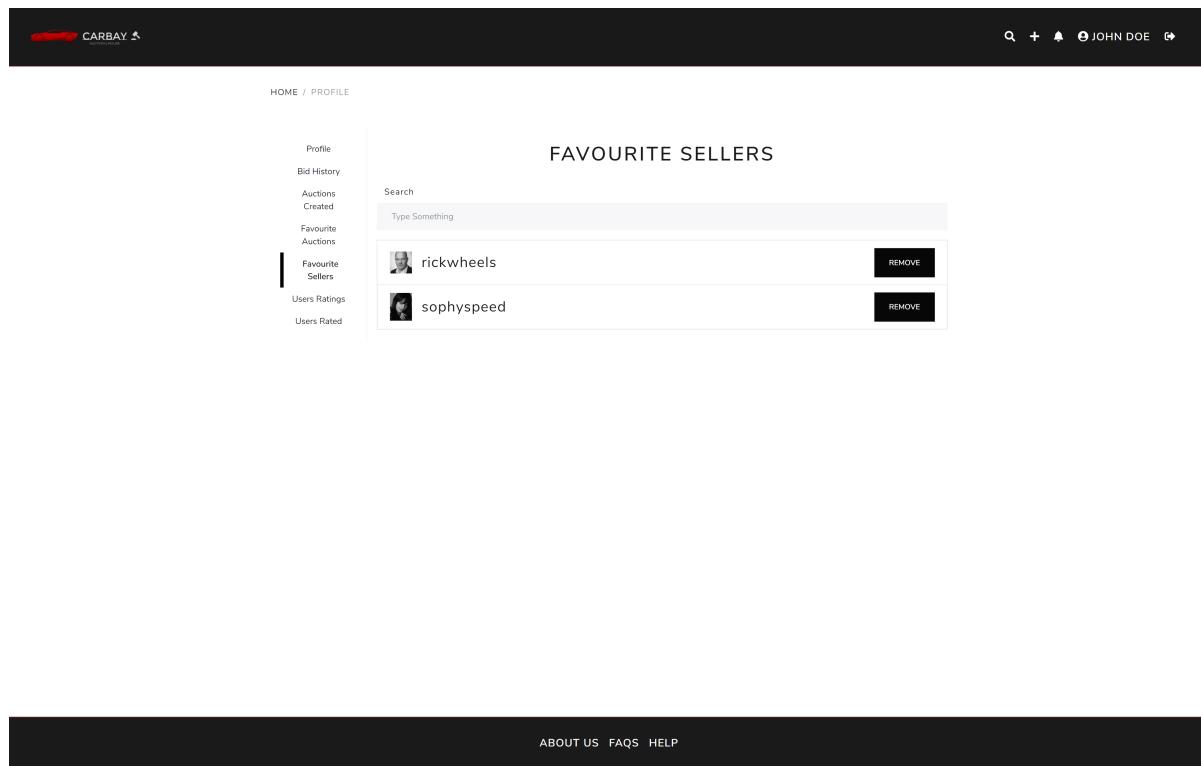


Figure 26: Profile

### UI18: Profile - Users Ratings

The screenshot shows the Carbay profile page for a user named JOHN DOE. The top navigation bar includes a search icon, a plus sign, a bell notification icon, and the user's name JOHN DOE. Below the navigation is a sidebar with links: Profile, Bid History, Auctions Created, Favourite Auctions, Favourite Sellers, Users Ratings, and Users Rated. The main content area is titled "USERS RATINGS". It displays five rating entries from other users:

- johndeer**: RATED: ★★★★☆. Comment: Great negotiator! Won one of his auctions, and got my product only three days after! Nice man, and reliable!
- rickwheels**: RATED: ★★★☆☆. Comment: Not such a nice man, but goes straight to the point.
- sophyspeed**: RATED: ★★★★☆. Comment: Likeable user, trust-worthy! I would definitely want to negotiate with this man again!
- mattsubufer**: RATED: ★★★★☆. Comment: Great man, trustable and always available until the item reached me
- annadoors**: RATED: ★★★☆☆. Comment: Arrogant negotiator, without worries about the bidders

On the right side of the page, there is a sidebar titled "USERS RATED" which lists other users and their ratings. At the bottom of the page is a footer bar with links: ABOUT US, FAQS, and HELP.

Figure 27: Profile

**UI19: Profile - Users Rated**

The screenshot shows the Carbay profile page for a user named JOHN DOE. The top navigation bar includes a search icon, a plus sign, a bell notification icon, and the user's name JOHN DOE. Below the navigation is a sidebar with links: Profile, Bid History, Auctions Created, Favourite Auctions, Favourite Sellers, Users Ratings, and Users Rated. The main content area is titled "USERS RATED". It displays five rating entries from the user JOHN DOE:

- annadoors**: RATED: ★★★★★. Comment: A very nice girl! Seemed to be a happy person, and met all the requirements and deadlines!
- sophyspeed**: RATED: ★★★☆☆. Comment: Seemed to be a little apathetic, but the business went well, only had a day late in delivery.
- mattsubufer**: RATED: ★★★☆☆. Comment: Scammer alert!!! Won one of his auctions, reached him to pay the product, and it never came. It's been a year!
- johndeer**: RATED: ★★★☆☆. Comment: He was rude a lot of times, during our conversation about the deal. I had to change my schedule just to do the things his way...
- rickwheels**: RATED: ★★★★☆. Comment: Great dude! Managed to get the deal done in a short time! Trust-worthy, would like to negotiate with him more times!

On the right side of the page, there is a sidebar titled "USERS RATED" which lists other users and their ratings. At the bottom of the page is a footer bar with links: ABOUT US, FAQS, and HELP.

Figure 28: Profile

**UI20: Admin Panel - Users Management**

HOME / ADMIN

## ADMIN PANEL

Search:

Type Something

	John Doe	BAN	MAKE ADMIN
	Mary Rose	BAN	MAKE ADMIN
	Anthony Taylor	BAN	MAKE ADMIN
	John Doe	BAN	MAKE ADMIN
	Mary Rose	BAN	MAKE ADMIN
	Anthony Taylor	BAN	MAKE ADMIN
	John Doe	BAN	MAKE ADMIN
	Mary Rose	BAN	MAKE ADMIN

ABOUT US FAQS HELP

Figure 29: Admin Panel

### UI21: Admin Panel - Auctions Management

HOME / ADMIN

## ADMIN PANEL

Search:

Type Something

	Ferrari Demon	SUSPEND	RESCHEDULE
	Lambo Spyder	SUSPEND	RESCHEDULE
	Maserati MC12	SUSPEND	RESCHEDULE
	Ferrari Demon	SUSPEND	RESCHEDULE
	Lambo Spyder	SUSPEND	RESCHEDULE
	Maserati MC12	SUSPEND	RESCHEDULE
	Ferrari Demon	SUSPEND	RESCHEDULE
	Lambo Spyder	SUSPEND	RESCHEDULE

ABOUT US FAQS HELP

Figure 30: Admin Panel

### UI22: Admin Panel - Reports

**ADMIN PANEL**

Search: Type Something

User Profile	Name	Location	Reason	BAN	DISCARD
	rickwheels	Profile	Reason: He threatened to come to my house and to steal all my car models. He is dangerous!	<b>BAN</b>	<b>DISCARD</b>
	sophyspeed	Profile	Reason: Ban this person! He is always winning the auctions I want!	<b>BAN</b>	<b>DISCARD</b>
	relampagomark	Profile	Reason: This individual is selling car models he does not possess. Unacceptable!	<b>BAN</b>	<b>DISCARD</b>
	matethetruck	Profile	Reason: This user is selling fake models! All made in China with low-cost materials! ALL FAKE! Ban him, please! We cannot have people like this in our community!	<b>BAN</b>	<b>DISCARD</b>
	herbiefarois	Profile	Reason: Not trustworthy! Ban asap.	<b>BAN</b>	<b>DISCARD</b>
	dinocoazul	Profile	Reason: He sent me a message threatening my family. This is completely unacceptable. All because I said I was not interested in the product and ended up buying it. Business skills are not allowed now! LOL. Ban him!	<b>BAN</b>	<b>DISCARD</b>

ABOUT US FAQS HELP

Figure 31: Admin Panel

### UI23: Admin Panel - Help

**ADMIN PANEL**

Search: Type Something

User Profile	Name	Unread	Message	FULL HISTORY	ACTIONS
	John Doe	1 Unread	I've just won an auction, it's my first time on this website. What should I do now? Will I be contacted by the website or should I reach the seller by his email?	<b>FULL HISTORY</b>	<b>ACTIONS</b>
	Mary Rose	1 Unread	There's an inappropriate comment on my profile page, some user left there a link that looks suspicious! What could I do to get it checked by some admin?	<b>FULL HISTORY</b>	<b>ACTIONS</b>
	Anthony Taylor	✓ Read	What does the favorite auctions functionality do? Will I be notified of its main events?	<b>FULL HISTORY</b>	<b>ACTIONS</b>

ABOUT US FAQS HELP

Figure 32: Admin Panel

#### UI24: Error 404

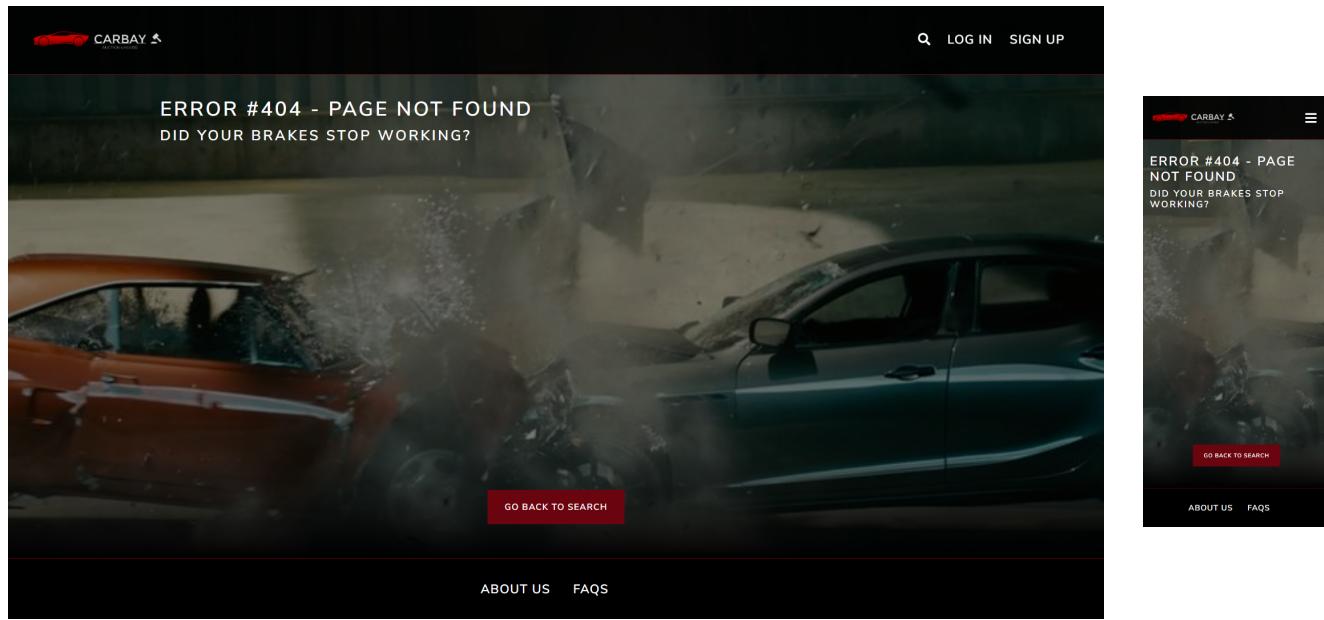


Figure 33: Error 404

## Revision History

Changes made to the first submission:

## Team

- Eduardo Brito (Editor)
  - [up201806271@fe.up.pt](mailto:up201806271@fe.up.pt)
  - [up201806271@g.upto.pt](mailto:up201806271@g.upto.pt)
- Paulo Ribeiro
  - [up201806505@fe.up.pt](mailto:up201806505@fe.up.pt)
  - [up201806505@g.upto.pt](mailto:up201806505@g.upto.pt)
- Pedro Ferreira
  - [up201806506@fe.up.pt](mailto:up201806506@fe.up.pt)
  - [up201806506@g.upto.pt](mailto:up201806506@g.upto.pt)
- Pedro Ponte
  - [up201809694@fe.up.pt](mailto:up201809694@fe.up.pt)
  - [up201809694@g.upto.pt](mailto:up201809694@g.upto.pt)

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GROUP 2155, 13/03/2021