

A10: Final Product

Seek Bid is an online auction platform, where users can buy and sell all type of products through auctions held by our services.

The users can create auctions by choosing their own product or by selecting one from the amazon catalog. After that, the system automatically manages the bidding's and determines the winning bid, sending a notification to the respective winner and to the auction owner. The website also provides complex search options where users, authenticated or not, can search for their desired products.

In this artifact, we will identify all the functionalities of our platform as well as some development details relative to the product.

1 Installation

1.1 Source Code

[final.zip](#)

1.2 How to run

[lbaw_development_environment.zip](#)

Using **Vagrant** on Ubuntu:

- Configure the vagrant machine, changing the node "source". The selected folder will serve as a synced folder, shared between the local machine and the vagrant machine.
- Init the vagrant machine with the command "vagrant up" (this will take a while... go grab a coffee).
- Access the vagrant machine with the command "vagrant ssh".
- Add the line "192.168.56.101 lbaw1662.dev www.lbaw1662.dev" to the /etc/hosts file.
- Now you can go to www.lbaw1662.dev and navigate through our website.

Using **Vagrant** on Windows:

- First, you have to install the following software:
 - VirtualBox 5.1.20
 - Vagrant 1.9.2 (I advise the use of this older version because i had some problems with the latest one)
 - PuTTY and PuTTYGen
- Configure the vagrant machine, changing the node "source" to a location where you will keep the project folder.
- Init the vagrant machine with the command "vagrant up"
- Hopefully you didn't get any error, so you can type "vagrant ssh-config" to get the SSH info.
- Now, go to the following site <https://www.sitepoint.com/getting-started-vagrant-windows/> and configure a PuTTY session accordingly to the information presented there.

- Add the line “192.168.56.101 lbaw1662.dev www.lbaw1662.dev” to the windows host file (normally, it is located in the path C:\Windows\System32\drivers\etc)
- You're now ready to use the vagrant machine and work on the project.

Alternative method:

- install php using 'sudo apt-get php'.
- install postgres-php communication package using 'sudo apt-get install php-pgsql'.
- run “php -S localhost:8000” on the project directory.
- access localhost:8000 and you're ready to go.

2 How to Use

[User instructions](#)

Service URL: <http://gnomo.fe.up.pt/~lbaw1662/final/>

2.1 Admin Credentials

Admin sign in URL: http://gnomo.fe.up.pt/~lbaw1662/final/pages/authentication/signin_admin.php

Username	Password
lbaw1662	oc86ve46
seekbid	seekbid1617

2.2 User Credentials

Username	Password
renatoabreu	qwertyuio
hant	123456789
dcepa95	password1

3 Inline help

Throughout our website, some of our interfaces or features were explained using friendly help prompts (tooltips) and small blocks of text that help understand the clear context of the pages.

Furthermore, for any user, authenticated or not, it's also possible to contact us and ask for help in whatever matter the user deems necessary. To achieve that, an email is sent to seekbid1617@gmail.com with the specified information.

4 Form Validation

The client side form validation was achieved by using the [jQuery Validation Plugin](#) and, when it was possible, a validation automatically performed by the browser.

5 Validation, Usability and Accessibility

- [Accessibility](#) - 15/18
- [Usability \(Web\)](#) - 25/28
- [Usability \(Mobile\)](#) - 22/25

6 HTML & CSS Validation

6.1 CSS Validation

[CSS](#)

6.2 HTML Validation

The overview of our web application is defined by 5 modules. As such, relatively to the HTML validation, for each module, the most important resource is validated and presented in the following documents:

- [Module M01 - Sign Up](#)
- [Module M02 - User profile](#)
- [Module M03 - Auction page](#)
- [Module M04 - Homepage](#)
- [Module M05 - Users list](#)

7 Revisions

7.1 Database

- **auction**
 - Quantity represents the number of products that are up to sell in an auction;
 - Questions_section is used to define if the seller wants to answer questions or not;
 - Num_bids is the current number of bids in the respective auction;
 - State is an auction_state ENUM. It is necessary to define the current state of an auction and the respective value is changed by cron tasks.
- **category** - New table to represent a category that a product can have. We've come to the conclusion that the utility of an ENUM was very limited and, consequently, the ENUM category_type was replaced by this table. It is described by the following relation: (id, name NN).
- **feedback** - New table to represent the user feedback. It is described by the following relation: (id, user_id → user, message NN, date NN)
- **image**
 - Added original_name attribute;
 - Added description.
- **location** - Table removed.

- **product_category** - New table to represent the association between a product and a category. It is described by the following relation: (product_id → product, category_id → category)
- **product**
 - Removed type. The type of the product is now represented by the association between category and product.
 - Added condition;
 - Added characteristics.
- **password_request** - New table used in the new user story Password Recovery. It is represented by the following relation: (id, email NN, token NN UK)
- **review_report** - Table removed because rarely was used.
- **user**
 - Removed location_id;
 - Added city_id, that is associated to the table City;
 - Attribute amount added to represent the current money of an user;
 - Attribute oauth_id used to sign in with the facebook.

7.2 High-level architecture

The JSON answers specified in the [A7](#) artifact were replaced by the use of the function fetch() integrated in the Smarty API.

7.2.1 M01: Authentication

To complete the user story, Password Recovery, the following resources were added so that the user can reset their password after receiving the respective recovery email.

- **R109: Reset password Page** pages/authentication/reset_password.php
- **R110: Reset password Request** api/authentication/reset_password.php

7.2.2 M02: Users

In order to bid on auctions, every user must have credit. Therefore, the following resources were necessary to allow an user to add credit to his account.

- **R213: Credit page** pages/user/credit.php
- **R214: Add credit** api/user/add_credit.php

The resource [Search Users](#) was removed. The functionality to search users in the admin's module (where the [R211](#) was initially needed) was achieved by using the library [DataTables](#) that has an integrated search system.

7.2.3 M03: Auction

The resource [Edit Auction Form](#) was split in the following resources (the description of each resource is similar to the original one). The main goal of this change is to update the respective info independently of each other.

- **R515: Update Auction** /action/auction/update_auction.php
- **R516: Update Product** /action/auction/update_product.php
- **R517: Update Settings** /action/auction/update_settings.php

Regarding the auction images, the following resources were created, so that the auction seller can add or remove images as he desires.

- **R518: Product Gallery** /pages/auction/auction_gallery.php
- **R519: Retrieve Product Images** /api/auction/get_product_images.php
- **R520: Remove Image** /api/auction/remove_image.php
- **R521: Upload Images** /api/auction/upload_images.php

Finally, to develop the user story [API product specification](#), that is related to the Amazon API, the following resources were created. These resources are used, respectively, to lookup a specific item (defined by the ASIN) in the Amazon catalog and to search a batch of products that match a given search index.

- **R522: Amazon Lookup** /pages/auction/amazon_lookup.php
- **R523: Amazon Search** /pages/auction/amazon_search.php

7.2.4 M05: Administrators

To complete the user stories - [US48](#), [US49](#) - the following resources were added to the architecture:

- **R513: List Feedback** /pages/admin/feedback.php
- **R514: Remove Feedback** /api/admin/remove_feedback.php
- **R515: Export Auctions** /api/admin/export_auctions.php

8 Development

Identifier	Name	Priority	Responsible	State
US01	Sign in	High	Renato Abreu	100%
US02	Sign up	High	Renato Abreu	100%
US03	Facebook sign in	Medium	Diogo Cepa	100%
US04	Facebook sign up	Medium	Diogo Cepa	100%
US05 *	Recover password	High	José Vieira	100%
US11	Search	High	Hélder Antunes	100%
US12	Filter	High	Hélder Antunes	100%
US13	Sort	High	Hélder Antunes	100%
US21	Profile	High	José Vieira	100%
US22	Bid on auction	High	José Vieira , Hélder Antunes	100%
US23	Follow	High	José Vieira	100%
US24	Unfollow	High	José Vieira	100%
US25	Comment on auctions	High	José Vieira , Renato Abreu	100%
US26	Review seller	High	José Vieira	100%
US27	Add to watch list	High	José Vieira	100%
US28	Remove from watch list	High	José Vieira , Hélder Antunes	100%
US29	Share auction	High	Diogo Cepa	100%

Identifier	Name	Priority	Responsible	State
US210	Notification of an auction update	High	Hélder Antunes, Renato Abreu	100%
US211	Notification of winner	High	Hélder Antunes, Renato Abreu	100%
US212	Report option	Medium	José Vieira, Renato Abreu	100%
US213	Logout	High	Diogo Cepa	100%
US214	Notification settings	Medium	Hélder Antunes	100%
US215	Feedback	Medium	Renato Abreu	100%
US216 *	Add credit to account	High	Hélder Antunes	100%
US217 *	Contact us	Medium	José Vieira	100%
US31	Create auction	High	Renato Abreu	100%
US32	Update auction	High	Renato Abreu	100%
US33	Cancel auction	High	José Vieira, Renato Abreu	100%
US34	Questions section	High	José Vieira, Renato Abreu	100%
US35	Auction history	High	Hélder Antunes	100%
US36	Bid notifications	Medium	Hélder Antunes, Renato Abreu	100%
US37	Personal product specification	High	Renato Abreu	100%
US38	API product specification	High	Diogo Cepa, Renato Abreu	100%
US41	Remove comment	High	José Vieira, Renato Abreu	100%
US42	Reports	High	Renato Abreu	100%
US43	Ban user	High	Renato Abreu	100%
US44	Warn user	High	Renato Abreu	100%
US45	Remove auction	High	José Vieira, Renato Abreu	100%
US46	Invite admin	High	Renato Abreu	100%
US47	Auctions settings	Medium	Renato Abreu	100%
US48	XML export	Medium	Renato Abreu	100%
US49	Feedbacks	High	Renato Abreu	100%

* User stories added throughout the product development.

— *LBAW*

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