A10 - Final Product

The final product consists in a web store for technological products. The store in named PuzzleWood and sells products ranging from books and music CDs to computers, laptops and headphones.

The PuzzleWood platform makes use of the HTML5, CSS and JavaScript technologies. The following frameworks were also used in the development of the project: Laravel, for PHP, and Bootstrap, for the implementation of the interfaces.

The platform aims to be easy to use, appellative and simple, it allows users to search for products, or filter them using various categories and filters (e.g. price, type and brand). Users can also add products to a cart if they intend to buy them or to a wish list if they wish to save them for another time. Since customer satisfaction is an important aspect of the platform all products have a review section and a score, there is also a help page. All pages of the platform are accessible from both computers and mobile devices, since the all pages use a responsive design.

1. URL

http://lbaw1831.lbaw-prod.fe.up.pt/

2. Usage

2.1. Administrator Credentials

Email	Password
diam.Proin.dolor@ascelerisque.org	testing1

2.2. Manager Credentials

Type	Email	Password
Sales	Phasellus.in@mieleifend.net	testing1
Clients	Duis@nullaante.edu	testing1

2.3. Client Credentials

Email	Password
diam.Proin.dolor@ascelerisque.org	testing1
diam.Proin.dolor@ascelerisque.org	asdcxz

3. Application Help

Help is offered to the users in the help page. This page can be accessed through the footer present in all pages. Beyond the provided contacts, a client can also contact support by sending a message through a form present in the contact section of this page.

4. Input Validation

Input is validated through HTML5 in the client side and by Laravel's Validator in the server side.

```html
<div class="form-group row">
            <label for="addProductStock" class="col-sm-2 col-form-label px-0">Stock</label>
            <div class="col-sm-8 px-0">
                <input type="number" step="1" min="0" class="form-control" id="addProductStock" placeholder="Stock" name="stock">
            </div>
        </div>
        <div class="form-group row">
            <label for="addProductPrice" class="col-sm-2 col-form-label px-0">Price (€)</label>
            <div class="col-sm-8 px-0">
                <input type="number" step="0.01" min="0" class="form-control" id="addProductPrice" placeholder="Price" name="price">
            </div>
        </div>
```

```php
public function add_product(Request $request)
{
  if (!Auth::check() || (Auth::check() && Auth::user()->userable_type === "App\Client")) {
```

```
    return Response::make("", 401);
    }

  $rules = [
    'product_name' => 'required',
    'category' => 'required',
    'price' => 'nullable|numeric',
    'stock' => 'nullable|numeric',
  ];

  if (isset($request->images)) {
   $images = count($request->images);
   foreach (range(0, $images) as $index) {
    $rules['images' . $index] = 'image|mimes:jpeg,bmp,png|max:2000';
   }
  }
  $validator = Validator::make($request->all(), $rules);
```

5. Check Accessibility and Usability

The webpage is accessible by everyone, regardless of any disability, as shown by the 16/18 score on the Accessibility Check. It's also very user friendly, as the 26/28 score shows it.

6. HTML & CSS Validation

Parts of the HTML and CSS were validated and the results were attached to this document

7. Revisions to the Project

Unfortunately, the project designed was too ambitious, so some aspects of it were dropped, in order to focus all the available effort to the critical aspects of the web application, ensuring the delivery of a project with quality.

8. Implementation Details

8.1. Libraries Used

We used the following libraries and frameworks: * Bootstrap: open source toolkit for developing with HTML, CSS, and JS. * Laravel: PHP Framework For Web Artisans. * Font Awesome: icon set

8.2 User Stories Implemented

8.2 .1. User

Identifier	Name	Priority	Description
US001	Home Page	high	As an User, I want to access the home page, so that I can get information about the trending items
US002	Product Page	high	As an User, I want to access a product page, so that I can get information about a product's specifications
US003	Browse Products	high	As an User, I want to browse products, so that I can find relevant products to me
US004	Search Products by Name	high	As an User, I want to search products by name, so that I can find all the items with that name
US005	Search Products by Category	high	As an User, I want to search products by category, so that I can find all the items which belong to that category
US006	Filter Products by Price	high	As an User, I want to filter products by price, so that I can find all the items in a particular price range
US008	Compare Products	high	As an User, I want to compare products, so that I can easily understand differences between them
US009	Sort Products by Price	high	As an User, I want to sort products by price, so that I can easily choose a product by price
US011	See featured Products	medium	As an User, I want to see featured products, so that I can find the most interesting products

8.2 .2. Client

Identifier	Name	Priority	Description
			As a Client, I want to delete my personal account, so that I can stop being a client and

Identifier	Name	Priority	Description
US101	Delete account	high	erase all my information from the platform
US102	Edit profile	high	As a Client, I want to edit my profile, so that I can keep it updated
US103	Log out	high	As a Client, I want to log out from the system, so that I can end my session
US104	Add items to shopping cart	high	As a Client, I want to add items to the shopping cart, so that I can include them in my purchase
US105	Remove items from shopping cart	high	As a Client, I want remove items from the shopping cart, so that I can exclude them from my purchase
US106	Collapse shopping cart sidebar	medium	As a Client, I want to collapse the shopping cart, so that I can easily keep shopping
US107	Change the items' quantity in the shopping cart	high	As a Client, I want to change the item's quantity in the shopping cart, so that I can select the quantity of each product I want to purchase
US108	Make a purchase	high	As a Client, I want to make a purchase, so that I can buy the items from the shopping cart
US110	Create wish list of products	medium	As a Client, I want to add a wish list of products, so that I can maintain a list with the products I want to purchase (in the future)
US111	Delete my wish list of products	medium	As a Client, I want to delete a wish list of products, so that I can keep my wish lists organized
US112	Add a product to my wish list	medium	As a Client, I want to add a product to a wish list, so that I can easily track an item that I want
US113	Remove product from wish list	medium	As a Client, I want to remove a product from a wish list, so that I can exclude it from my wish list
US114	View wish list	medium	As a Client, I want to view a wish list (personal or shared with me), so that I can see the desired products of the wish list's owner
US115	Share wish list	low	As a Client, I want to share a wish list via link, so that other Clients know what products I would like to purchase
US116	View history of purchases	high	As a Client, I want to view the history of my purchases, so that I can stay informed about my previous purchases
US117	Leave a review in bought products	high	As a Client, I want to leave a review in products I bought, so that I can express my opinion of the items
US121	Leave comments in products	high	As a Client, I want to leave comments in products, so that I can help other shoppers

8.2.3. Visitor

Identifier	Name	Priority	Description
US201	Register	high	As a Visitor, I want to register into the system, so that I can access Client's privileges
US202	Log in	high	As a Visitor, I want to log in into the system, so that I can authenticate myself and access Client's privileges

8.2.4 Manager

Identifier	Name	Priority	Description
US301	Log out	high	As a Manager, I want to log out from the system, so that I can end my session

8.2.4.1. Client Manager

8.2.4.2. Sales Manager

Identifier	Name	Priority	Description
US501	Add Products	high	As a Sales Manager, I want to add products, so that I can introduce new products that can be bought

8.2.5. System Administrator

Identifier	Name	Priority	Description
US606	Log out	high	As a System Administrator, I want to log out from the system, so that I can end my session

- Afonso Azevedo, up201603523@fe.up.pt
- Gonçalo Santos, up201603265@fe.up.pt
- João Vieira, up201603190@fe.up.pt
- Susana Lima, up201603634@fe.up.pt