PA: Product and Presentation

GameSpace is your gateway to the world of gaming, offering a convenient way to explore and acquire a wide variety of games across genres and game consoles, all in one place. In an era where gamers want something centralized, user-friendly, and personalized gaming experiences, we are here to provide just that.

Never miss out on the bestsellers and your most-wanted titles! Add games to your wishlist for future reference, and when you're sure of your choice, simply add them to your cart. Our user-friendly cart ensures a hassle-free checkout process.

A9: Product

The GameSpace final product is the culmination of the comprehensive system designed in the preceding stages, using HTML, CSS, and JavaScript to build interactive web pages and is built using the Laravel Framework with PostgreSQL as a database, offering an all-in-one hub for gaming enthusiasts.

GameSpace's primary goal is to provide a seamless journey for game discovery, exploration, and purchase across various genres and consoles. This platform, ideal for all gamers, allows users to maintain a wishlist and features an user-friendly shopping cart for easy checkout. After registration and user profile verification, gamers can start their ultimate gaming experience with GameSpace.

1. Installation

The release with the final version of the source code in the group's Git repository is available PA, in PA tag.

Full Docker command to launch the image available in the group's GitLab Container Registry using the production database:

```
docker run -it -p 8000:80 --name=lbaw23154 -e DB_DATABASE="23154" -e
DB_SCHEMA="lbaw23154" -e DB_USERNAME="lbaw23154" -e DB_PASSWORD="xdcPCrFY"
git.fe.up.pt:5050/lbaw/lbaw2324/lbaw23154
```

2. Usage

URL to the product: http://lbaw23154.lbaw.fe.up.pt

2.1. Administration Credentials

Email	Password
admin@test.com	password

2.2. User Credentials

Type	Email	Password

Type	Email	Password
User	test@test.com	password

2.3. PayPal Credentials

| Type	Email	Password
Client	sb-uxtjc28856733@personal.example.com	sb493M)v
Business	sb-x062v28583591@business.example.com	E!4w]xZ7

3. Application Help

We have implemented the About Us and FAQ pages, links to which are found in the footer, to help the user navigate the site. Contacts are also visible in the footer.
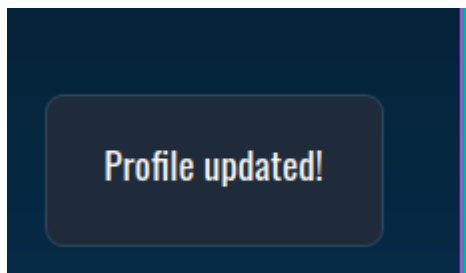
In the FAQ page, we answer some recurring questions about how the website works along with its policies.
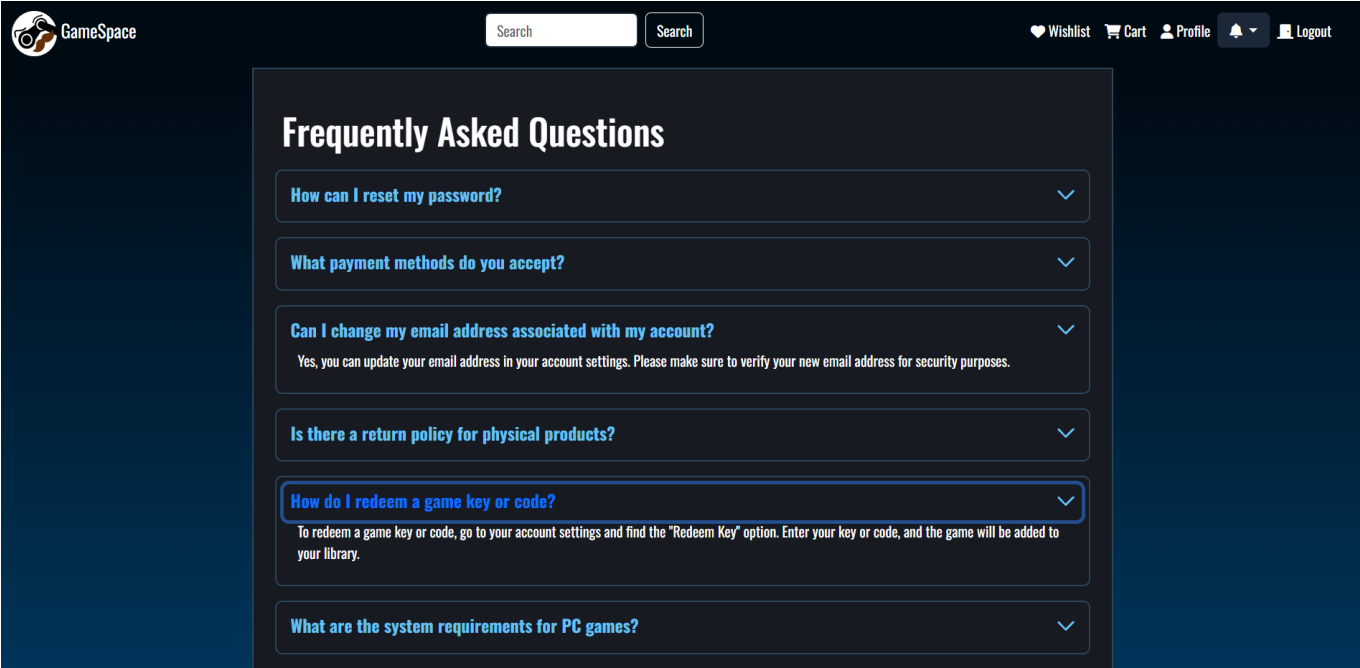
In the About Us page, we present some general information and trivia about our team, journey and goals.
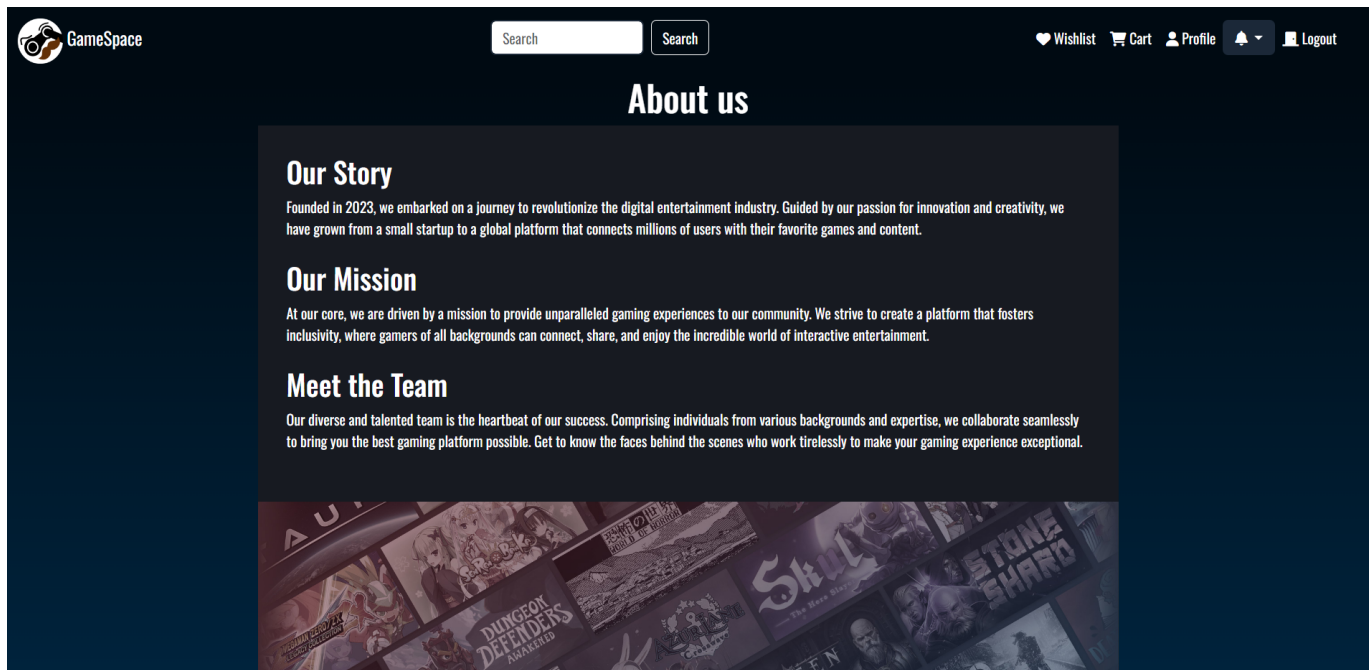
We have implemented success and error flash messages after most actions that result in a redirect.

4. Input Validation

For backend input validation in our project, we leveraged the Illuminate\Http\Request, allowing us to utilize the "validate" function with various validation types. This capability was utilized to validate form inputs, such as those in the login/register form, and the edit user/group profile form, as demonstrated in the following examples:

```php
public function change_password(){
    request()->validate([
        'token' => 'required',
        'email' => 'required|email',
        'password' => ['required', 'confirmed', 'min:6'],
    ]);
```

```php
public function authenticate(){
    $formFields = request()->validate([
        'email' => ['required', 'email'],
        'password' => 'required'
    ]);
```

As the front-end input validation we used javascript. For example, when the quantity of an item in the cart or when editing the stock of an item, invalid inputs are rolled back.

5. Check Accessibility and Usability

- [Accessibility:](), 17/18
- [Usability:](), 24/28

6. HTML & CSS Validation

- [HTML home page:]()
- [CSS:]()

7. Revisions to the Project

Database Schema

- Timestamps added to all tables: 'created_at' and 'updated_at'.
- Three attributes added to users table: 'image', 'remember_token' and 'banned'.
- Credits attribute for the user table is now an unsigned float.
- Two attributes added to addresses table: 'label' and 'deleted_at'.
- Two attributes added to products table: 'stock' and 'image2'.
- One attribute removed from products table: 'hardware'.
- Two attributes added to purchases table: 'product_id' and 'quantity'.
- Removed purchase_product table.
- Updated all triggers that used the purchase_product table to now use the purchases table.
- New table for password reset tokens: 'password_reset_tokens'.
- New table for notifications: 'notifications'.

8. Implementation Details

8.1. Libraries Used

- [Carbon](), to convert dates saved like timestamp into a date in format "day/month/year"
- [Alpine.js](), to have success/failure messages for a couple seconds and then disappear
- [Laravel-Paypal](), to implement a way to insert money into the user account

8.2 User Stories

US Identifier	Name	Module	Priority	Team Members	State
US01	Product Details	M02	High	**João Alves**, Gonçalo Marques	100%
US02	Search products	M02	High	**Gonçalo Marques**	100%
US03	Browse Product Categories	M02	Medium	**João Alves**	100%
US04	Search by Filters	M02	Medium	-	0%
US05	View Reviews	M03	Medium	**Gonçalo Marques**, João Alves	100%
US06	Home Page	M05	Medium	**João Alves**	100%
US07	About Page	M05	Medium	**João Alves**	100%

US Identifier	Name	Module	Priority	Team Members	State
US08	FAQ Page	M05	Medium	**João Alves**	100%
US09	Consult Contacts	M05	Medium	**João Alves**	100%
US10	See User Profile	M01	Medium	**Eduardo Sousa**, João Alves	100%
US11	Search User Profile	M01	Medium	-	0%
US12	Sorting Options	M02	Low	-	0%
US13	View Recommendations	M02	Low	-	0%
US14	Sign-in	M01	High	**Gonçalo Marques**	100%
US15	Sign-up	M01	High	**Gonçalo Marques**	100%
US16	Recover Password	M01	Medium	**Eduardo Sousa**, Gonçalo Marques	100%
US17	External API Sign-in	M01	Low	-	0%
US18	External API Sign-up	M01	Low	-	0%
US19	Add to Shopping Cart	M04	High	**Gonçalo Marques**, João Alves	100%
US20	Manage Shopping Cart	M04	High	**Gonçalo Marques**, João Alves	100%
US21	Log out	M01	High	**Gonçalo Marques**	100%
US22	View profile	M01	High	**Eduardo Sousa**, Gonçalo Marques, João Alves	100%
US23	Edit profile	M01	High	**Gonçalo Marques**, João Alves, Eduardo Sousa	100%
US24	Delete account	M01	High	**Eduardo Sousa**, Gonçalo Marques	100%
US25	Add to Wishlist	M03	Medium	**Gonçalo Marques**, João Alves	100%
US26	View Wishlist	M03	Medium	**João Alves**	100%
US27	Remove from Wishlist	M03	Medium	**João Alves**	100%
US28	Update password	M01	Medium	**Eduardo Sousa**, Gonçalo Marques	100%
US29	Review Voting	M03	Medium	**Eduardo Sousa**, Gonçalo Marques	100%
US30	View Notifications	M01	Medium	**Gonçalo Marques**, João Alves	100%
US31	Product Price Change	M01	Low	**Gonçalo Marques**	100%

| US Identifier	Name	Module	Priority	Team Members	State
US32	Product Availability	M02	Low	-	0%
US33	Unban Account	M06	Medium	**Gonçalo Marques**	100%
US34	Manage Catalog	M06	Medium	**Gonçalo Marques**	100%
US35	Manage Item Category	M06	Medium	**Gonçalo Marques**	100%
US36	Delete Review	M06	Medium	**Gonçalo Marques**	100%
US37	Ban Account	M06	Medium	**Gonçalo Marques**	100%
US38	Manage Stock	M06	Medium	**Gonçalo Marques**	100%
US39	View Users' Purchase History	M06	Medium	**João Alves**	100%
US40	Manage Order Status	M06	Medium	**Gonçalo Marques**	100%
US41	Manage Item Description	M06	Medium	**Gonçalo Marques**	100%
US42	Review a game	M03	High	**Gonçalo Marques**, João Alves	100%
US43	Give games a score	M02	High	**Gonçalo Marques**, João Alves	100%
US44	Delete a game score	M02	High	**Gonçalo Marques**	100%
US45	Check purchase history	M01	High	**João Alves**	100%
US46	Delete a game review	M02	High	**Gonçalo Marques**	100%
US47	Edit Game Review	M03	Medium	-	0%
US48	Payment approval	M04	Low	**Gonçalo Marques**, João Alves	100%
US49	Cancel Order	M01	Low	-	0%
US50	Change in Order Status	M01	Low	**Gonçalo Marques**	100%
US51	Track Order	M01	Low	**Gonçalo Marques**	100%
US52	Address Options	M01	Low	**Eduardo Sousa**, Gonçalo Marques	100%

A10: Presentation

1. Product presentation

GameSpace is a new videogame store! We have a varied selection of products across many different genres and platforms. You can buy credit through PayPal and exchange it for whatever you put into your shopping cart. You can also review any product in our selection and much more.

GameSpace was developed using a combination of HTML5, JavaScript, and CSS. The user interface was enhanced with the Bootstrap framework, while the back-end and page content were implemented using the Laravel framework, which utilizes PHP. The platform also incorporates an adaptive design. For further details, refer to the information provided on the static pages and if your questions persist, feel free to contact us through the provided contacts.

- URL to the product: http://lbaw23154.lbaw.fe.up.pt

2. Video presentation
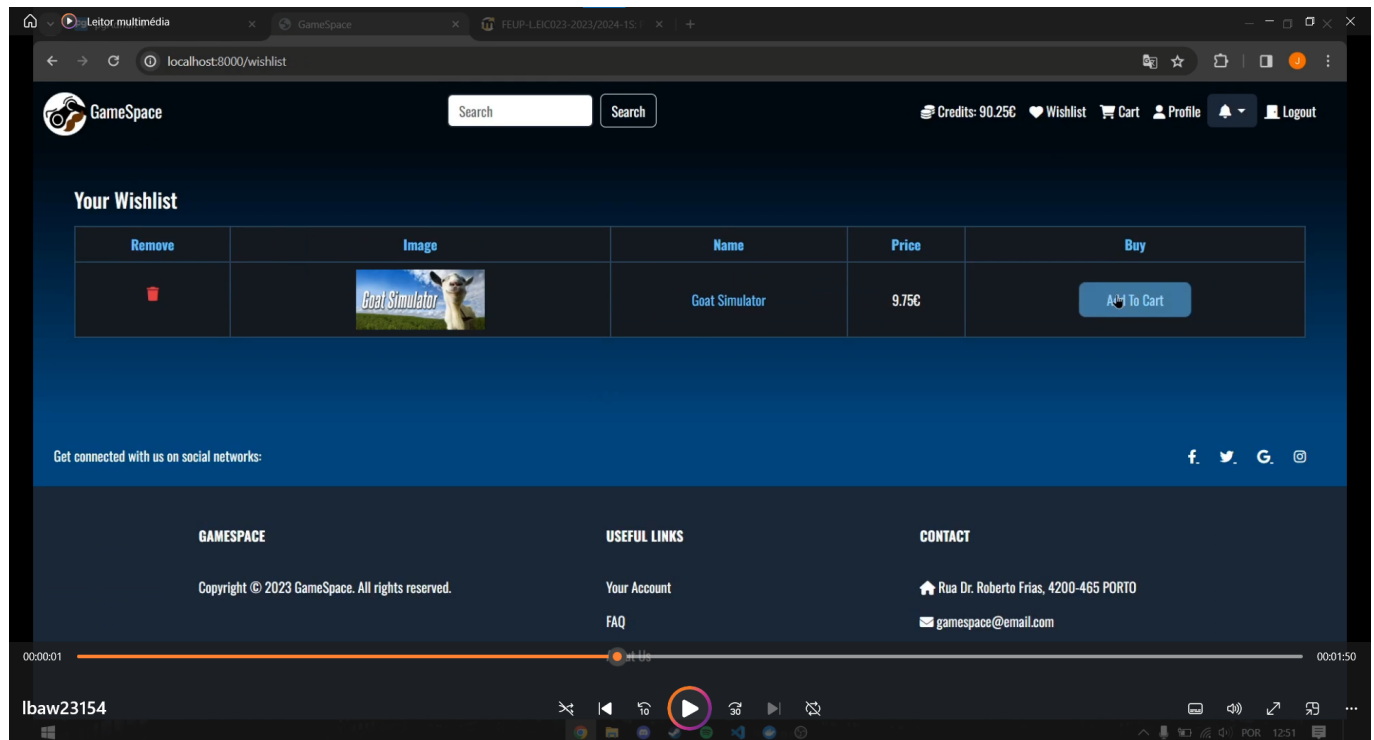
- URL to the video: https://www.youtube.com/watch?v=KAYF-B0ljUQ&ab_channel=Jo%C3%A3oAlves

GROUP23154, 19/12/2023

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