

# pa

Last edited by Joao Tomas Matos Fernandes Garcia Padrao 7 months ago

## PA: Product and Presentation

BrainShare seeks to use the internet's power to connect people towards developing knowledge collaboratively.

### A9: Product

BrainShare is an innovative web-based information system designed for individuals seeking to exchange knowledge through collaborative question-and-answer sessions in a structured manner. The platform employs tags to categorize information, facilitating organized discussions across various topics. Our primary objective is to foster personal growth by encouraging users to engage in discussions relevant to their interests.

We are driven by the belief that collaborative efforts can accelerate individual and collective knowledge development. Our platform aims to provide a space where users can actively participate in discussions, contributing to their own intellectual advancement and that of others.

#### 1. Installation

The link to the release containing the final version of the source code is available in the group's Git repository, [here](#).

The full Docker command to launch the image available at the group's GitLab Container Registry using the production database is:

```
docker run -it -p 8000:80 --name=lbaw23136 -e DB_DATABASE="lbaw23136" -e DB_SCHEMA="lbaw23136" -e DB_USERNAME="lbaw23136"
```

#### 2. Usage

To access the product, you can use the following URL: <http://lbaw23136.lbaw.fe.up.pt>.

##### 2.1. Administration Credentials

Administration URL: <https://lbaw23136.lbaw.fe.up.pt/administration/>

Email	Password
<a href="#">admin@gmail.com</a>	1234

##### 2.1. Moderation Credentials

Moderation URL: <https://lbaw23136.lbaw.fe.up.pt/administration/>

Email	Password
<a href="#">moderator@gmail.com</a>	1234

##### 2.2. User Credentials

Email	Password
<a href="#">user1@gmail.com</a>	1234
<a href="#">user2@gmail.com</a>	1234

#### 3. Application Help

The Help-related features have been integrated alongside the other main functionalities. They are manifested through the implementation of "403 pages" when an action lacks authorization, as well as through error/success messages that accompany specific actions. Additionally, these features are also incorporated into static pages such as "FAQ", "About us" and "Contacts". Here are some examples:

FAQ page

## Frequently Asked Questions

### What is BrainShare?

BrainShare is an information system with a web interface designed to manage a community of users engaging in collaborative questions and answers.

### Who can participate?

### How does the voting system work?

### Can I leave comments on questions or answers?

About us page

## About Us

BrainShare is an innovative web-based information system, designed for everyone who wants to exchange knowledge through collaborative questions and answers in a structured manner, through the use of tags to separate information into categories.

The goal behind the project is to foster personal growth in the user by allowing them to engage in discussion on themes that are relevant to their own interests.

We are motivated by the personal growth of our users. We believe that through collaboration our users can develop their own knowledge and that of others at a rate higher than otherwise and thus we seek to develop a platform to make this possible. application enables users to organize and track all their questions and answers; they may be scattered across various topics, and the system will centralize them into a virtual knowledge hub accessible to all users.

Contacts page

## Contact Us

For any questions or suggestions, please contact us at:

Email: lbaw23136@gmail.com

Phone: +351 912 345 678

Oporto, Portugal

Login error message

E-mail

The provided credentials do not match our records.

Password

☐ Remember Me

Forgot Your Password?

LOGIN

REGISTER

Delete user success message

 BRAINSHARE

[About us](#) [FAQ](#) [Contacts](#)

Your account has been deleted!

E-mail

Password

☐ Remember Me

Forgot Your Password?

LOGIN

REGISTER


403 page

403 | THIS ACTION IS UNAUTHORIZED.

4. Input Validation

For the back-end input validation, we used the versatile "validate" function from the Illuminate\Http\Request. This function was systematically applied across various controller functions in our project, covering a range of validation types (excluding the GET method).

- Edit profile example:

 BRAINSHARE

[About us](#) [FAQ](#) [Contacts](#) [John Doe](#) [LOGOUT](#)

Edit Profile

Username

John Doe

E-Mail Address

admin@gmail.com

Password

Confirm Password

Description

Description

SAVE

```
public function editProfile(Request $request, $id) {  
    $validatedData = $request->validate([  
        'username' => 'required|max:255',  
        'email' => 'required|email|max:250',  
        'password' => 'required|min:8|confirmed',  
        'description' => 'required|max:255',  
    ]);  
  
    $user = User::find($id);  
  
    $user->username = $request->username;  
    $user->email = $request->email;  
    $user->password = Hash::make($validatedData['password']);  
    $user->description = $request->description;  
    $user->save();  
  
    return redirect('/user/'.$user->id);  
}
```

On the other side, the client-side validation is designed to enhance the user experience. Therefore ,for example, when editing a comment, if a user attempts to submit an empty comment, a warning is triggered.

### Edit Answer Comment

Edit Comment:

UP

!

Preencha este campo.

## 5. Check Accessibility and Usability

[Accessibility Checklist](#), 14/18

[Usability Checklist](#), 19/28

## 6. HTML & CSS Validation

HTML: [Here](#)

CSS: [Here](#)

## 7. Revisions to the Project

Numerous revisions have been implemented in the project since the initial requirements specification stage.

### Database Schema

- Question Status: We chose to store question statuses in a separate table named STATUS, providing a more modular approach. This decision makes it easier to add new states in the future.
- "Blocked" Column in the Users Table: We have omitted the blocked column in the users table. In the current version, we no longer use this approach to indicate user blocking.
- "remember\_token" Column in the Users Table: The remember\_token column has been removed from the users table in the latest version as it was no longer necessary for our authentication requirements.
- "positive" Column in the Reviews Table: We continue to use a similar approach to indicate the positivity/negativity of reviews, maintaining the positive column directly in the Reviews table.
- "password\_reset\_tokens" was created;

Triggers

- Trigger 1:
  - The table name QuestionOrAnswer has been changed to question\_or\_answer in the new version.
  - The trigger is modified to be activated not only after an insert on Reviews but also after an update on review.
- Trigger 2:
  - The table name Notification has been changed to notification in the new version.
  - The trigger is modified to be activated after an insert on the notification table instead of QuestionOrAnswer.

Indexes

- Adjustments to ensure naming consistency and reflect changes in table names while preserving the functionality of the indexes and FTS indexes.

User Stories

- Due to a 50% reduction in our group members, we engaged in discussions with our teacher and carefully reconsidered the prioritization of user stories. As a result, we have decided to make changes to the user stories to better align with our current circumstances and priorities.Changes available [here](#)

9. Implementation Details

9.1. Libraries Used

[Laravel](#) is employed for server-side management in our project.

9.2 User Stories

US Identifier	Name	Module	Priority	Team Members	State
US01	Login	M01	High	João Padrão	100%
US02	Logout	M01	High	João Padrão	100%
US03	Sign-up	M01	High	João Padrão	100%
US04	Submit a question	M02	High	João Padrão	100%
US05	View Question Details	M05	High	João Padrão	100%
US06	Submit an answer	M05	High	João Padrão	100%
US07	View User Profiles	M01	High	João Padrão	100%
US08	View My Answers	M01	High	João Padrão	100%
US09	View My Questions	M01	High	João Padrão	100%
US10	See Top questions	M02	Medium	João Padrão	100%
US11	Browse questions	M02	High	João Padrão	100%
US12	Delete Question	M05	High	Inês Soares, João Padrão	100%
US13	Edit Question	M05	High	Inês Soares, João Padrão	100%
US14	Delete Answer	M05	High	Inês Soares, João Padrão	100%
US15	Edit Answer	M05	High	Inês Soares, João Padrão	100%
US16	Comment on questions	M05	High	João Padrão	100%
US17	Edit comment on questions	M05	High	João Padrão	100%
US18	Delete comment on questions	M05	High	João Padrão	100%
US19	See Recent questions	M02	Medium	Inês Soares	100%
US20	Comment on answers	M05	High	João Padrão	100%
US21	Edit comment on answers	M05	High	João Padrão	100%

US Identifier	Name	Module	Priority	Team Members	State
US22	Delete comment on answers	M05	High	João Padrão	100%
US23	See other user profiles	M01	High	Inês Soares	100%
US24	Mark answer as correct	M05	Medium	Inês Soares, João Padrão	100%
US25	Create tags	M03	High	João Padrão	100%
US26	Edit tags	M03	High	João Padrão, Inês Soares	100%
US27	Delete tags	M03	High	João Padrão	100%
US28	Create new user	M04	High	João Padrão	100%
US29	Edit user	M04	High	João Padrão	100%
US30	Delete user	M04	High	João Padrão	100%
US31	Search for a user	M04	High	João Padrão, Inês Soares	100%
US32	Block user	M04	High	João Padrão, Inês Soares	100%
US33	Unblock user	M04	High	João Padrão, Inês Soares	100%
US34	See appeals	M04	High	João Padrão, Inês Soares	100%
US35	Edit profile	M04	High	Inês Soares	100%
US36	Recover password	M01	High	João Padrão	100%
US37	Delete profile	M01	High	João Padrão	100%
US38	Appeal for unblock	M04	High	João Padrão	100%
US39	See About Us page	M02	High	Inês Soares	100%
US40	See FAQ page	M02	High	João Padrão	100%
US41	See contact page	M02	High	João Padrão	100%
US42	Vote On Questions	M02	High	Inês Soares, João Padrão	100%
US43	Notification	M02	Medium	Inês Soares	45%

10. Mailtrap credentials

Email: [lbaw23136@gmail.com](mailto:lbaw23136@gmail.com)

Password: lbaw202323136

A10: Presentation

This artifact corresponds to the presentation of the product.

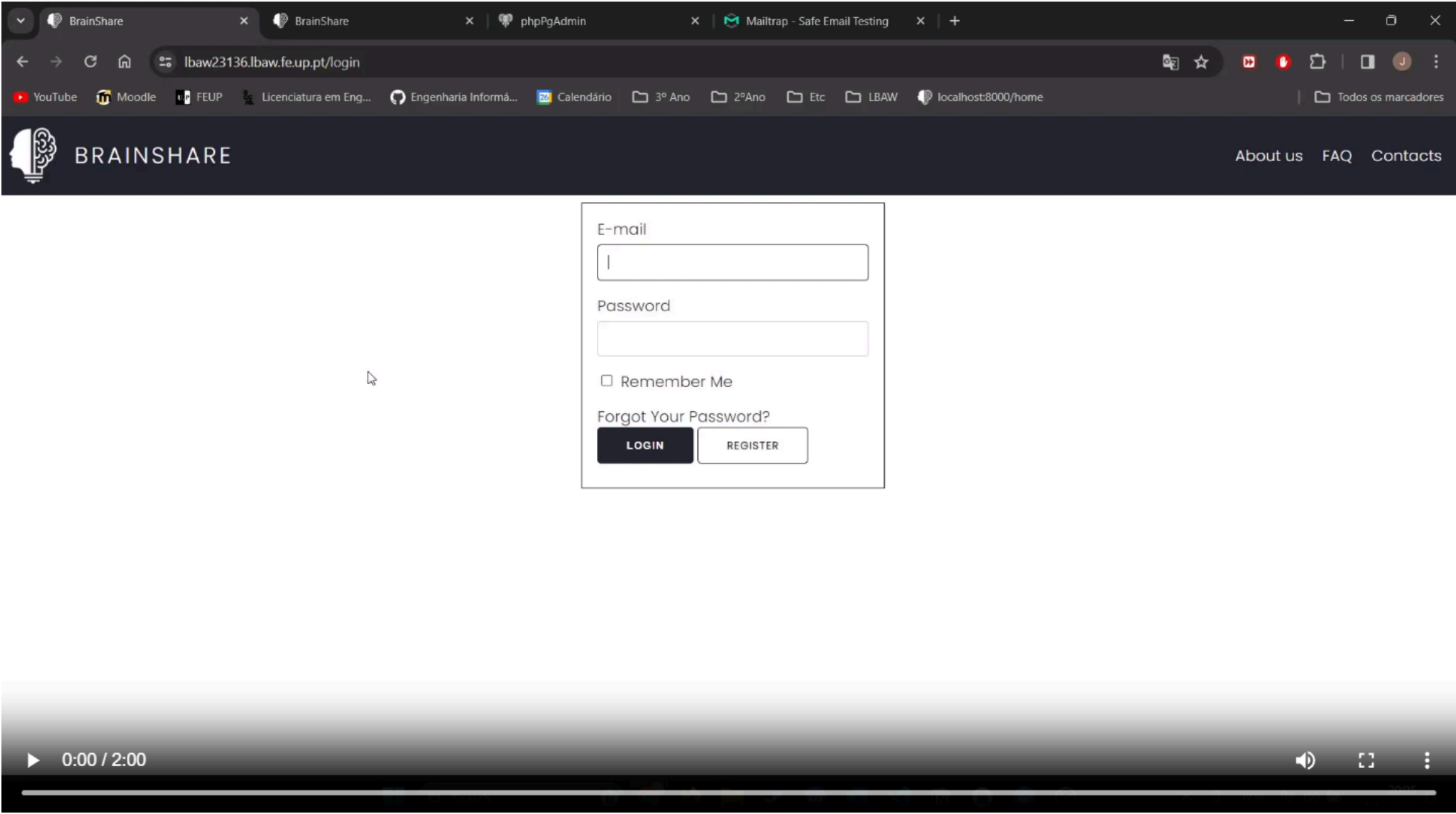
1. Product presentation

BrainShare is a cutting-edge web-based information system designed for collaborative knowledge exchange through structured question-and-answer sessions. Using tags to organize discussions, the platform encourages users to actively engage in conversations relevant to their interests, fostering both personal and collective intellectual growth.

Built with HTML5, JavaScript, and CSS, boasts an intuitive interface for seamless functionality and adaptability across devices. Leveraging the Laravel framework on the back end, powered by PHP, the platform stands as the go-to for accessible and collaborative knowledge sharing. Users seeking more details can refer to the concise static page.

URL to the [product](#)

2. Video presentation



The video is available [here](#)

Revision history

Changes made to the first submission:

- 1. Item 1
- 2. ..

GROUP23136, 21/12/2023

- Inês Martin Soares, [up202108852@fe.up.pt](mailto:up202108852@fe.up.pt)
- João Padrão, [up202108766@fe.up.pt](mailto:up202108766@fe.up.pt)