

Product and Presentation

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PA: Product and Presentation

askFEUP aims to create a collaborative online platform where FEUP students can ask questions, share experiences, and connect on academic and social topics. Our goal is to build a user-friendly, mobile-responsive space where students can seek advice, offer help, and engage with peers in a supportive community.

The platform will feature categorized questions, personalized content via a "For You" page, and interactive tools like upvoting and leaderboards to encourage participation. With clear roles for administrators, moderators, and users, askFEUP will foster a respectful, well-moderated environment, becoming a central hub for student engagement and collaboration.

A9: Product

askFEUP is a dedicated online platform designed to enhance collaboration and interaction among students at the Faculty of Engineering, University of Porto (FEUP). It aims to serve as a central hub where students can connect, share knowledge, and seek support on both academic and social matters.

Q&A Platform:

- Students can post questions on various academic and non-academic topics. Responses from peers or experts foster a culture of mutual assistance.

Categorized Discussions:

- Questions and topics are neatly organized into tags, making it easy for users to find relevant information or join discussions.

Personalized "For You" Page:

- Users are presented with tailored content based on their interests and activities, ensuring a customized and engaging experience.

Interactive Tools:

- Features like upvoting answers and a leaderboard system encourage active participation and reward contributors.

Community Roles:

- Clear distinctions between administrators, moderators, and general users ensure smooth and respectful interactions. Moderators and administrators maintain a healthy, well-moderated environment.

Mobile Responsiveness:

- Designed for accessibility across devices, making it easy to use on smartphones, tablets, and desktops.

1. Installation

Due to constrains, we still do not have an image with a working database. This will be updated as soon as we solve this issue.

To run our container, you have to execute the following command:

```
docker run -d --name lbaw24042 -p 8001:80 gitlab.up.pt:5050/lbaw/lbaw2425/lbaw24042
```

2. Usage

2.1. Administration Credentials

Administration URL: <http://localhost:8001/admin-center>

Username	Password
ines.mendes@gmail.com	securepass

2.2. User Credentials

Type	Username	Password
basic account	joao.silva@gmail.com	password123
moderator account	luis.almeida@gmail.com	luispossible
banned account	carla.oliveira@gmail.com	carla1234

3. Application Help

Our website includes '?' icons in certain areas, providing users with contextual information or helpful guidance related to the features or actions available.

askFEUP

Search askFEUP...

LOGINREGISTER

Home

Tags

Leaderboard

About Us

Contacts

Register

Name *
John Doe

Tagname *

E-Mail Address *

Your password must be at least 8 characters

Password *

?

Confirm Password *

Age *

?

Country

Degree

REGISTERLOGIN

Some important input fields on our website are marked with an '*' to indicate that they are mandatory and must be filled out before submission.

askFEUP

Search askFEUP...

QUESTION

Home

Tags

Followed Questions

Leaderboard

About Us

Contacts

Edit Profile

Display Name

Tagname

Email

Password

Age

Country

Degree

Profile Picture

DELETE ACCOUNT

Name

Update the name you want to be displayed to other users

Name *
Inês Mendes

UPDATE

CANCEL

4. Input Validation

On the client-side, we validate inputs to ensure they match the expected type and verify that the user has the necessary permissions to perform certain actions.

```

public function store(Request $request)
{
    $validatedData = $request->validate([
        'body' => 'required|string|max:1000',
        'title' => 'required|string|max:255|unique:question_post,title',
        'tag' => 'nullable|integer',
    ]);

    $question = QuestionPost::create([
        'text' => $validatedData['body'],
        'user_id' => Auth::id(),
        'title' => $validatedData['title'],
        'tag_id' => $validatedData['tag'],
        'date' => Carbon::now(),
        'is_edited' => false,
    ]);

    return redirect()->route('questions.show', ['id' => $question->id])
        ->with('success', 'Question post created successfully.');
```

On the server-side, our database enforces constraints on table parameters and employs triggers and transactions to ensure data integrity and smooth operation.

```

-- R05: Question_Post Table
CREATE TABLE question_post (
    id SERIAL PRIMARY KEY,
    text TEXT NOT NULL,
    date TIMESTAMP NOT NULL CHECK (date <= NOW()),
    is_edited BOOLEAN NOT NULL DEFAULT FALSE,
    user_id INT REFERENCES "user"(id) ON DELETE CASCADE NOT NULL,
    title VARCHAR(255) UNIQUE NOT NULL,
    tag_id INT REFERENCES tag(id) ON DELETE SET NULL,
    nr_likes INT NOT NULL CHECK (nr_likes >= 0) DEFAULT 0
);
```

5. Check Accessibility and Usability

The following links show the result from our evaluation of our project in terms of Accessibility and Usability:

[Accessibility](#)

[Usability](#)

6. HTML & CSS Validation

The following links show the result from the validation of the HTML and CSS:

[HTML](#)

[CSS](#)

7. Revisions to the Project

The database was really troublesome! We had to add new triggers and renew our architecture to something more scalable. Instead of using a single table for each type of notification, we decided it would be more efficient to create a general table, while there was a specific attribute related to the type. We remade all the triggers to be compatible with the new schema. We also didn't take account of the reports, which was an already planned feature. We created a table for that and add the respective triggers!

The other phases were well done, specially the component A8. It gave us a really good start and it made possible to keep refining our product!

8. Implementation Details

8.1. Libraries Used

Mailtrap is an email testing tool that allows developers to capture SMTP traffic from staging and development environments, automate test flows with a flexible API, and analyze email content for spam scores.

In the context of our website, Mailtrap facilitates the testing of features such as password recovery and direct user communication by simulating email reception. This ensures that functionalities like password reset emails and contact form submissions operate correctly before being deployed to a live environment.

askFEUP

Search askFEUP...

LOGINREGISTER

Home

Tags

Leaderboard

About Us

Contacts

Contacts

Contacts

Check us out

@Ins_askFEUP

@Tw_askFEUP

@Fb_askFEUP

Email

askfeupteam@gmail.com

Better Together

Have a question or feedback? Please fill out the form below and we'll get back to you as soon as possible!

Name *

Email Address *

Your Message *

SEND MESSAGE

askFEUP

Search askFEUP...

LOGINREGISTER

Home

Tags

Leaderboard

About Us

Contacts

Reset your Password

Write your email address and we will send you a link for you to reset your password.

Email

RESET PASSWORD

For this service, we have the following credentials:

- email: askfeupteam@gmail.com
- pass: securepass

8.2 User Stories

This section will present all the users stories implemented in our project.

US Identifier	Name	Module	Priority	Team Members	State
FR.031	Exact Match Search	M03	High	Mariana & Jorge	100%
FR.032	Full Text Search	M03	High	Jorge	100%
FR.101	View Top Questions	M03	High	Mariana & Eduardo	100%
FR.103	Browse Questions	M03	High	Everyone	100%
FR.105	View Question Details	M03	High	Mariana & Jorge	100%
FR.011	Login	M01	High	Jorge	100%
FR.012	Registration	M01	High	Jorge	100%
FR.015	Logout	M01	High	Jorge	100%
FR.021	View Profile	M02	High	Everyone	100%
FR.022	Edit Profile	M02	High	Everyone	100%
FR.201	View Personal Feed	M03	High	Everyone	100%
FR.208	View My Questions	M03	High	Mariana & Jorge	100%
FR.209	View My Answers	M03	High	Jorge & Eduardo	100%
FR.202	Post Question	M03	High	Mariana & Jorge	100%
FR.401	Edit Question	M03	High	Jorge & Tatiana	100%
FR.402	Delete Question	M03	High	Jorge & Tatiana	100%
FR.203	Post Answer	M03	High	Mariana & Jorge	100%
FR.403	Edit Answer	M03	High	Mariana	100%
FR.404	Delete Answer	M03	High	Eduardo & Tatiana	100%
FR.042	Administer User Accounts	M04	High	Everyone	100%
FR.043	Block and Unblock User Accounts	M04	Medium	Everyone	100%
FR.052	Contextual Error Messages	M04	Medium	Mariana & Eduardo	100%
FR.033	Search over Multiple Attributes	M03	Medium	Everyone	100%
FR.034	Search Filters	M03	Medium	Eduardo & Tatiana	100%
FR.104	Browse Questions by Tags	M03	Medium	Eduardo & Tatiana	100%
FR.051	Placeholders in Form Inputs	M03	Medium	Mariana & Tatiana	100%
FR.053	Contextual Help	All	Medium	Mariana & Tatiana	100%
FR.061	About Us	M02	Medium	Jorge & Tatiana	100%
FR.063	Contacts	M02	Medium	Jorge & Tatiana	100%
FR.102	View Recent Questions	M03	Medium	Mariana & Eduardo	100%
FR.052	Contextual Error Messages	All	Medium	Mariana & Tatiana	100%
FR.062	Main Features	M02	Medium	Jorge & Tatiana	100%
FR.106	View User Profiles	M02	Medium	Everyone	100%
FR.013	Recover Password	M01	Medium	Mariana	100%
FR.014	Delete Account	M02	Medium	Mariana & Jorge	100%

US Identifier	Name	Module	Priority	Team Members	State
FR.023	Support Profile Picture	M02	Medium	Eduardo	100%
FR.205	Vote on Answers	M02	Medium	Mariana & Jorge	100%
FR.210	Follow Question	M03	Medium	Eduardo & Tatiana	100%
FR.211	Follow Tags	M03	Medium	Mariana & Jorge	100%
FR.024	View Personal Notifications	M03	Medium	Everyone	100%
FR.204	Vote on Questions	M03	Medium	Mariana & Tatiana	100%
FR.221	Report Content	M03	Low	Mariana & Jorge	100%
FR.222	Badge Award	M02	Low	Everyone	100%
FR.223	Statistics	M04	Low	Jorge & Tatiana	100%
FR.224	Save Questions	M03	Low	Eduardo & Mariana	100%
FR.502	Mark Answer as Correct	M03	Medium	Mariana & Jorge	100%
FR.701-a	Notification of Answers	M02	Medium	Mariana & Eduardo	100%
FR.702-a	Vote on Content	M03	Medium	Mariana & Tatiana	100%
FR.501	Edit Question Tags	M03	Medium	Mariana & Jorge	100%
FR.701-b	Notification of Answers	M02	Medium	Mariana & Eduardo	100%
FR.702-b	Vote on Content	M03	Medium	Eduardo & Tatiana	100%
FR.207	Comment on Answers	M03	Medium	Jorge & Tatiana	100%
FR.405	Edit Comment	M03	Medium	Eduardo & Jorge	100%
FR.406	Delete Comment	M03	Medium	Eduardo & Tatiana	100%
FR.702-c	Vote on Content	M03	Medium	Mariana & Tatiana	100%
FR.801	Manage Tags	M04	Medium	Jorge & Eduardo	100%
FR.041	Administrator Accounts	M04	Medium	Jorge & Tatiana	100%
FR.044	Delete User Account	M04	Medium	Jorge & Mariana	100%
FR.802	Global Statistics	M04	Low	Jorge & Tatiana	100%
FR.601	Delete Content	M04	Medium	Mariana & Eduardo	100%
FR.602	Edit Question Tags	M03	Medium	Mariana & Jorge	100%
FR.603	Ban User	M04	Low	Mariana & Tatiana	100%

A10: Presentation

This artifact corresponds to the presentation of our product.

1. Product presentation

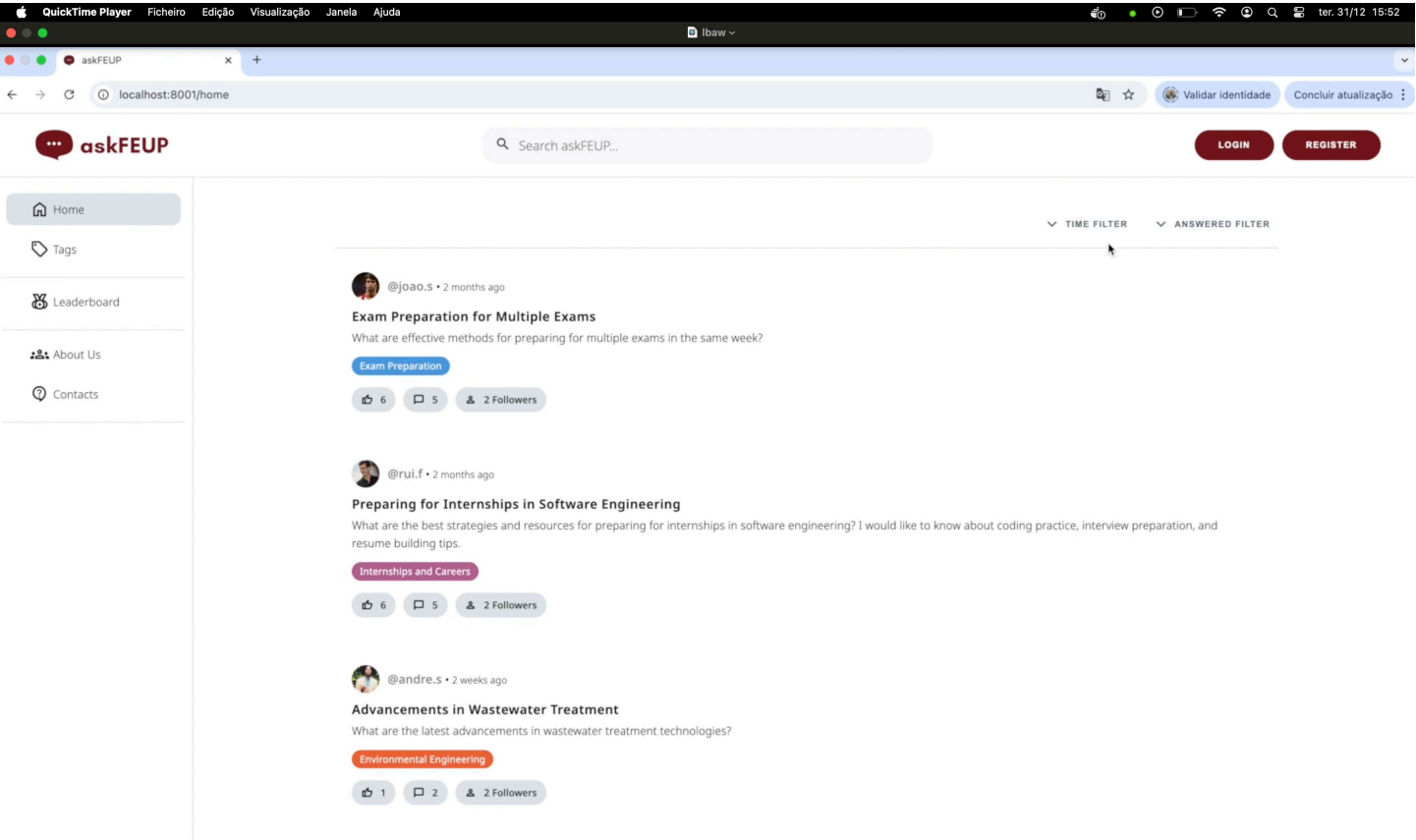
askFEUP is an innovative online platform tailored for FEUP students, designed to foster collaboration, knowledge-sharing, and community engagement. It provides a space where students can ask questions, share experiences, and seek advice on academic and social topics. The platform is user-friendly and mobile-responsive, ensuring seamless access from any device. Through features like categorized questions, personalized "For You" pages, and interactive tools such as upvoting and leaderboards, askFEUP creates a dynamic and engaging experience. These elements encourage active participation and reward contributions, transforming the platform into a vibrant hub for peer support and interaction.

To ensure a respectful and well-moderated environment, askFEUP establishes clear roles for administrators, moderators, and users. Moderation tools help maintain quality and decorum in discussions, while a collaborative atmosphere strengthens the sense of community among students. The platform aspires to become an indispensable resource for FEUP students, addressing academic challenges, offering social connectivity, and empowering users to

thrive both individually and collectively.

2. Video presentation

The demo video is available at Moodle in [lbaw24042.mp4](#) file.



Revision history

- 31/12/2024 - Content was added to the Video Presentation section of the A10.

GROUP2404, 22/12/2024

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- Group member 2: Jorge Mesquita, [up202108614@up.pt](#) (Editor)
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Comments