

pa

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PA: Product and Presentation

The Bulletin is a community-driven news platform that empowers users to submit, vote on, and discuss news stories. It offers personalized feeds based on user interests, enabling people to engage with relevant content while shaping its visibility through voting. With a reputation system that rewards quality contributions and moderation tools to maintain platform integrity, The Bulletin fosters a respectful and collaborative environment. Accessible on all devices, it aims to create a democratic space where users actively participate in curating and discussing the news.

A9: Product

The Bulletin final product represents the implementation of the information system conceptualized in the earlier stages (A1 to A7), utilizing PHP and the Laravel Framework to create dynamic web pages, AJAX for enhanced user experience, and PostgreSQL as the database solution. The Bulletin is a community-driven news platform that empowers users to submit, vote on, and discuss news stories. It offers personalized feeds based on user interests, enabling people to engage with relevant content while shaping its visibility through voting.

1. Installation

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

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

```
docker run -d --name lbaw24104 -p 8001:80 gitlab.up.pt:5050/lbaw/lbaw2425/lbaw24104
```

2. Usage

2.1. Administration Credentials

Administration URL: URL

E-mail	Password
admin@test.com	12345678

2.2. User Credentials

Type	E-mail	Password
basic account	t4@test.com	12345678
news editor	t3@test.com	12345678

3. Application Help

Help has been implemented on alert messages and on some static pages, like "Contacts", "About us" and "Features". You can access these pages by pressing the buttons in the footer.

Exemple of some of this pages:

The Bulletin Main Features

Welcome to The Bulletin! Here are some of the main features that make our platform unique and valuable:

Personalized News Feed: Stay up to date with news tailored to your interests.
Top News Feed: See the top news feed to remain up to date with popular topics.
Recent News Feed: Browse through the most recent topics by viewing the recent news feed.
Search and Filters: Easily find articles, comments, or tags using advanced search and filtering options.
Exact Match Search: Search for news articles using an exact phrase to quickly find specific content.
Full-Text Search: Perform a full-text search across all articles to find content containing specific keywords or phrases.
Interaction: Engage with posts through comments, upvotes, and downvotes.
View News Items Comments: See what other people think about a news article by viewing its comments.
Profile Customization: Add a profile picture, update your details, and showcase your reputation.
Follow Users and Tags: Keep up to date with your interests by following users and tags.
Notifications: Stay informed with personalized notifications about interactions on your posts and comments.
Favorites: Add news items to your favorites to revisit them easily.
Propose News Topics: Tailor the website to your liking by proposing new news topics.
Reputation System: Verify how trustworthy other users are by seeing their reputation.
Tags: See the tags of a post to determine if it is within your interests.

Explore The Bulletin and make the most of these features!

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Contact Us

If you need assistance, have feedback, or want to report an issue, feel free to reach out to us through any of the following methods:

Email Support

You can email us at: thebulletin@support.com

Admins Available Monday to Friday, 9:00 AM - 5:00 PM (WET)

Feedback Form

Your Name:

Your Email:

Your Message:

SEND MESSAGE

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4. Input Validation

Client-Side Validation

Client-side validation was used to grant users immediate feedback on their input, improving the user experience by reducing errors before submission. We implemented client-side validation using HTML attributes and JavaScript functions, ensuring that most common input errors were caught early.

Example of trying to edit profile leaving a blank username:

Edit admin's Profile



Username:

The username field is required.

Server-Side Validation

Server-side validation was used to grant reliable validation of all input data, even if client-side mechanisms failed or were bypassed. We used Laravel's built-in tools and custom rules to validate and sanitize data before processing it further.

Example of a back-end input-validation:

Example of a custom back-end input validation:

5. Check Accessibility and Usability

Accessibility and usability tests were performed using the checklists provided respectively in this links:

<https://ux.sapo.pt/checklists/acessibilidade/>

<https://ux.sapo.pt/checklists/usabilidade/>

The results can be accessed here: [accessibility](#) and [usability](#).

6. HTML & CSS Validation

The HTML and CSS code were validated using the following tools:

The results can be accessed here: [HTML](#) and [CSS](#).

7. Revisions to the Project

Describe the revisions made to the project since the requirements specification stage.

Database Schema

- New table for banned users: 'blacklist';
- New table for topic proposals: 'topic_proposals';
- changed composite keys for id;

Triggers

- Update trigger 09 'update_reputation_posts': Updates the reputation of the user who interacted with a post based on upvotes or downvotes (BR02);
- Update trigger 10 'update_reputation_comments': Updates the reputation of the user who interacted with a comment based on upvotes or downvotes (BR02);
- Update trigger 11 'update_reputation_posts_removed_like': Adjusts the user's reputation when a like or dislike is removed from a post (BR02);
- Update trigger 12 'update_reputation_comments_removed_like': Adjusts the user's reputation when a like or dislike is removed from a comment (BR02);
- New trigger 15 'update_reputation_posts_changed_like': Adjusts the user's reputation when a like or dislike is changed from a post (BR02);
- New trigger 16 'update_reputation_comments_changed_like': Adjusts the user's reputation when a like or dislike is changed from a comment (BR02);

User Stories

New low priority user stories were added:

- US66 - See list of followers and following;
- US67 - Tag page;
- US68 - Reply to a comment;

8. Implementation Details

8.1. Libraries Used

- [Mailtrap](#) - for Password Recovery (US26) and Contacts (US17)
- [FontAwesome](#) - for icons and buttons (e.g Profile Page (US20)
- [Bootstrap](#) - for frontend intuitiveness and responsiveness

8.2 User Stories

US Identifier	Name	Module	Priority	Team Members	State
US01	Register	M01: Authentication	High	Rafael Campeão	100%
US02	Login	M01: Authentication	High	Rafael Campeão	100%
US03	Top News Feed	M03: Posts	High	Luana Lima	100%
US04	See News Item	M03: Posts	High	Rafael Campeão	100%
US05	Exact Match Search	M03: Posts	High	Miguel Neri	100%
US06	Full-Text Search	M03: Posts	High	Miguel Neri	100%
US19	Logout	M01: Authentication	High	Luana Lima	100%
US20	Profile Page	M02: User	High	João Cordeiro	100%
US21	Edit Profile	M02: User	High	João Cordeiro	100%
US22	See Other Profiles	M02: User	High	João Cordeiro	100%
US23	News Item Details	M03: Posts	High	Rafael Campeão	100%
US24	Other Users News Feeds	M03: Posts	High	Luana Lima	100%
US51	Create News Item	M03: Posts	High	Rafael Campeão	100%
US52	Edit my News	M03: Posts	High	Rafael Campeão	100%
US53	Delete my News	M03: Posts	High	Rafael Campeão	100%
US57	Administer Accounts	M04: Administrator	High	João Cordeiro	100%
US07	View News Items Comments	M03: Posts	Medium	Miguel Neri	100%
US08	Recent News Feed	M03: Posts	Medium	Miguel Neri	100%
US09	Search News Items/Comments	M03: Posts	Medium	Miguel Neri	100%
US10	Search over Multiple Attributes	M03: Posts	Medium	Miguel Neri	100%
US11	Search Filters	M03: Posts	Medium	Miguel Neri	100%
US12	Placeholders in Form Input Fields	M02: User	Medium	Miguel Neri, João Cordeiro, Rafael Campeão, Luana Lima	100%
US13	Contextual Error Messages	M02: User	Medium	Miguel Neri, João Cordeiro, Rafael Campeão, Luana Lima	100%
US14	Contextual Help	M02: User	Medium	Miguel Neri	100%
US15	About Us	M02: User	Medium	Miguel Neri	100%
US16	Main Features	M02: User	Medium	João Cordeiro	100%
US17	Contacts	M02: User	Medium	João Cordeiro	100%
US25	Delete My Account	M02: User	Medium	João Cordeiro	100%
US26	Password Recovery	M01: Authentication	Medium	João Cordeiro	100%
US27	Profile Picture	M02: User	Medium	João Cordeiro	100%
US28	Personalised Notifications	M03: Posts	Medium	Rafael Campeão	100%

US Identifier	Name	Module	Priority	Team Members	State
US29	Upvote News Items/Comments	M03: Posts	Medium	Luana Lima	100%
US30	Downvote News Items/Comments	M03: Posts	Medium	Luana Lima	100%
US31	Change Vote on News Item/Comment	M03: Posts	Medium	Luana Lima	100%
US32	Remove Vote on News Item/Comment	M03: Posts	Medium	Luana Lima	100%
US33	Comment on News Item	M03: Posts	Medium	Miguel Neri	100%
US34	See Users Reputation	M02: User	Medium	Luana Lima	100%
US35	See Post Tags	M03: Posts	Medium	Luana Lima	100%
US36	Follow Users	M03: Posts	Medium	Rafael Campeão	100%
US37	Unfollow Users	M03: Posts	Medium	Rafael Campeão	100%
US38	Follow Tags	M03: Posts	Medium	Rafael Campeão	100%
US39	Unfollow Tags	M03: Posts	Medium	Rafael Campeão	100%
US40	Edit Own Comments	M03: Posts	Medium	Miguel Neri	100%
US41	Delete Own Comments	M03: Posts	Medium	Miguel Neri	100%
US42	Notification on Voted Comments	M03: Posts	Medium	Rafael Campeão	100%
US43	Notification on Commented Comments	M03: Posts	Medium	Rafael Campeão	100%
US44	See Comment Details	M03: Posts	Medium	Miguel Neri	100%
US54	Add Tags to My News	M03: Posts	Medium	Luana Lima	100%
US55	Likes on Posts Notifications	M03: Posts	Medium	Rafael Campeão	100%
US56	Comments on Posts Notifications	M03: Posts	Medium	Rafael Campeão	100%
US58	Delete Accounts	M04: Administrator	Medium	João Cordeiro	100%
US59	Block Users	M04: Administrator	Medium	João Cordeiro	100%
US60	Unblock Users	M04: Administrator	Medium	João Cordeiro	100%
US61	Administrator Account	M04: Administrator	Medium	João Cordeiro	100%
US62	Manage Topic Proposals	M04: Administrator	Medium	João Cordeiro	100%
US45	Propose News Topics	M02: Users	Low(Medium)	João Cordeiro	100%
US18	Ordering of Results	M03: Posts	Low	Miguel Neri	100%
US46	Appeal for Unblock	M02: Users	Low	Rafael Campeão	0%
US47	Add to Favorites	M02: Users	Low	Miguel Neri	0%
US48	Remove from Favorites	M02: Users	Low	Miguel Neri	0%

US Identifier	Name	Module	Priority	Team Members	State
US49	Report News Items and Comments	M02: Users	Low	Luana Lima	0%
US50	Report User	M02: Users	Low	Luana Lima	0%
US63	Manage Reports	M04: Administrator	Low	João Cordeiro	0%
US64	Delete News	M04: Administrator	Low	Rafael Campeão	100%
US65	Promote user to System Manager	M04: Administrator	Low	Luana Lima	100%
US66	See list of followers and following	M02: Users	Low	Luana Lima	100%
US67	Tag page	M03: Posts	Low	Luana Lima	100%
US68	Reply to a comment	M03: Posts	Low	Miguel Neri	100%

A10: Presentation

This artifact corresponds to the presentation of the product.

1. Product presentation

The Bulletin is a web-based platform designed to enhance how users interact with and manage news. In an era where people want more control over the news they consume and share, this system allows readers and contributors to submit, vote on, and discuss news. The motivation behind The Bulletin is to foster a collaborative environment where users can shape the news narrative, creating a democratic platform driven by community engagement.

The platform enables users to submit news, vote on news items and comments, and engage with others through discussions. It offers personalized news feeds, the ability to follow specific tags or users and an advanced search functionality (allowing search through filters or tags and having different types of match search). The system includes voting mechanisms that affect user reputation.

2. Video presentation

(<https://gitlab.up.pt/lbaw/lbaw2425/lbaw24104/-/blob/main/docs/lbaw24104.mp4>)

Revision history

28/11 - 05/12:

High priority user stories were refined and started working on medium priority.
By:

- João Cordeiro
- Luana Lima
- Miguel Neri
- Rafael Campeão

06/12 - 12/12:

Working on medium priority user stories.
By:

- João Cordeiro
- Luana Lima
- Miguel Neri
- Rafael Campeão

13/12 - 18/12:

Finishing medium priority user stories.
By:

- João Cordeiro
- Luana Lima
- Miguel Neri
- Rafael Campeão

19/12 - 23/12:

Working on low priority user stories. Some user stories were refined. Wiki for PA was updated.
By:

- João Cordeiro
- Luana Lima
- Miguel Neri
- Rafael Campeão

GROUP104, 18/12/2024

- João Cordeiro, up202205682@up.pt
- Luana Lima, up202205682@up.pt
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Comments