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PA: Product and Presentation

Connectify aims to revolutionize online social interactions by establishing a new paradigm in social networking that prioritizes user empowerment, trust, and community. We envision a platform where individuals can engage authentically, build meaningful relationships, and share their lives in a safe environment, ultimately creating a more connected and supportive digital world. Our commitment to user autonomy and privacy not only sets us apart but also inspires a movement towards more responsible and user-focused online experiences.

A9: Product

The purpose of this artifact is to showcase the final product, providing an analysis of its input validation, accessibility, functionality, and implementation details. Additionally, it includes a step-by-step installation guide for running the project image.

Connectify, is a social network designed to bring people together by fostering interaction and discussion based on shared interests. It enables users to create and join groups, share posts, and engage with a vibrant community built around common hobbies and passions.

1. Installation

Link to the release with the final version of the source code: <https://gitlab.up.pt/lbaw/lbaw2425/lbaw2453/-/releases/PA> Docker command to start the image using the production database:

- `docker run -d --name lbaw2453 -p 8001:80 gitlab.up.pt:5050/lbaw/lbaw2425/lbaw2453`

Access <http://localhost:8001> to use the application.

2. Usage

2.1. Administration Credentials

Username	Password
alice@example.com	securepassword1

2.2. User Credentials

Type	Username	Password
basic user account	bob@example.com	securepassword2

3. Application Help

Features related to Help were implemented - they can be visualized on alert messages on some actions and on some static pages, like “Contact Us”, “About us” and “Main Features”.

You can access these pages by their url path, like “/contact”, “/about” and “/mainfeatures” or by pressing the buttons that we created to access these pages. These buttons are always placed in the footer.

The About Us page is useful to give the context of the app and our staff.

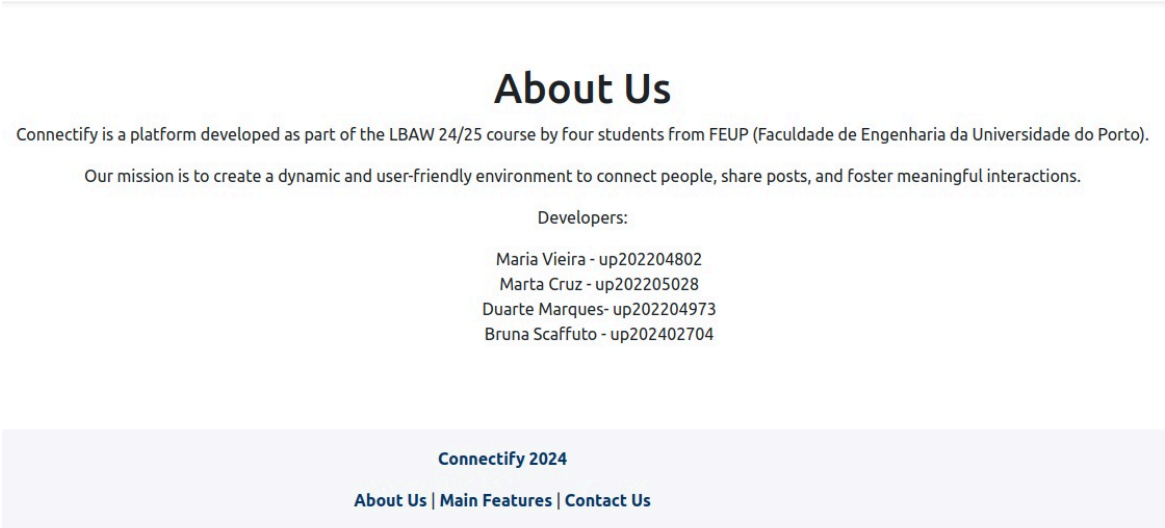


Figure 1: Connectify About Us page

The Contact Us page is useful to give the user a quick and easy way to ask for further help.

Contact Us

If you have any questions, suggestions, or need support, please fill out the form below. We are here to help!

Your Name

Enter your name

Subject

Enter the subject

Message

Describe your question or issue

Send Message

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About Us | Main Features | Contact Us

Figure 2: Connectify Contact Us page

The Main Features page is useful to let the user know more about what to expect from the app, presenting the main features and their descriptions.

Main Features of Connectify

Connectify is a platform built to foster meaningful connections between users. It provides a range of features designed to facilitate interaction and content sharing. Here are the main features of Connectify:

Post Creation

Users can create posts, share their thoughts, images, and videos with others. Posts can be public or restricted to specific groups or individuals.

Reactions

Users can react to posts and comments with different reactions such as "like," "love," and others, making interactions more dynamic and personalized.

Comments

Engage with content by leaving comments. Discuss and share your thoughts with other users on specific posts, creating a rich conversation environment.

Real-Time Updates

Connectify updates in real-time, ensuring that users always see the latest posts, reactions, and comments without having to refresh the page.

User Profiles

Each user has a personal profile where they can view their posts, reactions, comments, and interactions with others. Customize your profile to reflect your personality!

Notifications

Stay updated on new interactions with notifications for reactions, comments, and new posts from your friends or followed accounts.

Groups

One of the unique features of Connectify is the ability to create and join groups. Users can create groups based on specific interests, such as technology, sports, or hobbies, and share posts, discussions, and resources within these groups. This allows for more personalized connections and interactions, bringing together people who share similar passions and interests.

Groups allow users to engage in focused conversations, join events, and connect with others on a deeper level. Whether it's a professional group, a fan club, or a hobbyist community, groups on Connectify help users build a sense of belonging and foster connections that go beyond casual interactions.

These are just a few of the many features that make Connectify a dynamic platform designed to bring people closer together. Join us and start connecting today!

Figure 2: Connectify Main Features page

E-mail

marta@example.com

The provided credentials do not match our records.

Password

Forgot your password?

Login

Don't have an account yet?

Register

Continue with Google

Connectify 2024

About Us | Main Features | Contact Us

Figure 2: Login error messages

4. Input Validation

In Connectify, we employed both client-side and server-side validation to ensure the integrity and security of user input.

- Client-side validation occurs directly in the browser, providing instant feedback to users. It helps prevent unnecessary server requests for invalid input, enhancing the user experience.

Example: Login Form In the login form, we used HTML attributes for client-side validation:

- `required` : Ensures that the email and password fields are not empty.
- `type="email"` : Validates the format of the email.
- Server-side validation is performed on the server to enforce strict data validation and prevent malicious input. It ensures data integrity even if client-side validation is bypassed.

Example 1: Login Authentication We used Laravel's `validate` method to validate the login form fields:

- The `email` field is required and must have a valid email format.
- The `password` field is required.

5. Check Accessibility and Usability

Accessibility test: Score 13/18 - [Acessibility Report](#)

Usability test: Score 19/28 - [Usability Report](#)

6. HTML & CSS Validation

HTML validation: warnings and errors are the result of the bootstrap framework.

- Static page with header and footer - app.blade.php: [Validation Report](#)
- Home page - home.blade.php: [Validation Report](#)
- Feed page - feed.blade.php: [Validation Report](#)
- User page - user.blade.php: [Validation Report](#)

CSS validation: [Validation Report](#) CSS validation: Validation Report

7. Revisions to the Project

EBD (Database Specification Component)

1. SQL Code Highlights
 - **Improved Readability:** Added highlights in the SQL code for clarity.
 - **Schema Creation:** Expanded the schema and improved relationships between tables.

- **Table and Field Renaming:**
 - Renamed `user_` to `users` for consistency.
 - Renamed `user_password` to `password` in the `users` table to align with naming conventions.

2. Table and Relationship Updates

- **Growth of Relations:** Increased size and complexity of relationships between entities.
- **Reaction Table Update:** Modified to support reactions for both posts and comments.
- **Notification Table Fix:** Addressed incorrect column names during table creation.

3. Triggers and Logic Adjustments

- **Trigger Updates:**
 - Updated Trigger 1 to provide administrators with access to private profiles (later deleted due to redundancy).
 - Trigger 3 logic updated, likely refining reaction management or related actions.
 - Trigger 4 modified to set `user_id = 0` instead of `null` for default values.
 - Added Trigger 8 to validate reaction target types.
- **Trigger Deletion:** Removed Trigger 1 due to redundancy.

4. Security Enhancements

- **Password Hashing:** Updated some user passwords to be hashed for better security.

5. UML and Schema Updates

- **UML Update:** Reflected database schema changes in the Entity-Relationship Diagram.

(Requirements Specification Component)

1. User Story Enhancements

- **Responsible Column Addition:** Added a new `Responsible` column to the User Stories table for clearer task assignments.
- **Assignments and Priority:**
 - Populated the `Responsible` column with team member names.
 - Prioritized user stories for the vertical prototype (A8).
- **New User Stories:**
 - Added stories for reactions (US237, US238).
 - Added a story for promoting users to administrators (US75).
 - Introduced a story for viewing group posts (US54).

2. Feature Adjustments

- **Logout Feature:** Added to user stories to allow users to log out.
- **"Add to Group" Story Update:** Changed from "adding new members to the group" to "adding friends to the group" (US62).
- **Deleted Story (US33):** Removed story about post visibility management as it’s inherently tied to account privacy.

3. Format and Editor Updates

- **Restrictions and Goals:** Reformatted restrictions in user stories and added artifact goals to A2.
- **Editor Identification:** Updated user stories to identify the editor of each task.

4. Deprioritization

- **Tagging Features:** User stories related to tagging users were moved to low priority.

This thematic organization highlights the updates and features implemented in both the database and requirements components of Connectify.

Summary of Revisions:

- **Database Structure Changes:** Adjustments were made to the schema, including renaming tables and fields, updating triggers, and ensuring password security with hashing.
- **User Stories Adjustments:** Several user stories were added, removed, or updated to reflect the changing requirements, particularly around features like reactions, group membership, and post visibility.
- **Improved User Story Management:** The prioritization and responsibility assignment in the user stories were revised to better align with project goals and the development process.

These changes reflect a continued refinement of the project, ensuring both the technical and functional requirements are met as the system evolves.

8. Implementation Details

8.1. Libraries Used

Library name	Reference	Description of Usage	Example in the project
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FontAwesome	https://fontawesome.com/	Used for icons on some buttons within the app	
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8.2 User Stories

US Identifier	Name	Module	Priority	Team Members	State
US11	Sign-in	M01: Authentication	High	Maria Vieira, Marta Cruz	100%
US12	Sign-up	M01: Authentication	High	Maria Vieira, Marta Cruz	100%
US13	View Public Timeline	M02: Users	High	Duarte Marques	100%
US14	View Public Profiles	M02: Users	High	Maria Vieira	100%
US15	Exact Match Search	M07: Search	High	Marta Cruz	100%
US16	Full Text Search	M07: Search	High	Marta Cruz	100%
US21	View Personalized Timeline	M02: Users	High	Duarte Marques	100%
US216	View Friends’ Feed	M02: Users	Medium	Duarte Marques	100%
US22	View User Profiles	M02: Users	High	Maria Vieira	100%
US23	Exact Match Search	M07: Search	High	Marta Cruz	100%
US24	Full Text Search	M07: Search	High	Marta Cruz	100%
US25	Create Post	M03: Posts and Comments	High	Maria Vieira , Marta Cruz	100%
US26	View My Own Profile	M02: Users	High	Maria Vieira	100%
US27	Edit My Own Profile	M02: Users	High	Maria Vieira	100%
US28	Log out	M01: Authentication	High	Maria Vieira	100%
US31	Delete Post	M03: Posts and Comments	High	Maria Vieira	100%
US32	Edit Post	M03: Posts and Comments	High	Maria Vieira	100%
US71	Administer User Accounts	M08: Administration	High	Maria Vieira	100%
US211	Send Friend Requests	M04: Friendship Requests	Medium	Bruna Scafutto	100%

US Identifier	Name	Module	Priority	Team Members	State
US212	Manage Friend Requests	M04: Friendship Requests	Medium	Bruna Scafutto	100%
US213	Manage Friends	M04: Friendship Requests	Medium	Maria Vieira	100%
US228	React to Post	M03: Posts and Comments	Medium	Maria Vieira	100%
US217	Profile Picture	M02: Profile Picture	Medium	Bruna Scafutto, Maria Vieira	100%
US214	Comment on Posts	M03: Posts and Comments	Medium	Maria Vieira	100%
US29	Search Over Multiple Attributes	M07: Search	Medium	Maria Vieira	100%
US72	Manage User Content	M08: Administration	Medium	Maria Vieira	100%
US215	Create Group	M05: Groups	Medium	Marta Cruz	100%
US225	Save Posts	M03: Posts and Comments	Medium	Duarte Marques	100%
US227	Remove Saved Posts	M03: Posts and Comments	Medium	Duarte Marques	100%
US226	View Saved Posts	M03: Posts and Comments	Medium	Duarte Marques	100%
US236	View Groups	M05: Groups	Medium	Duarte Marques	100%
US113	View About Us Page	M08: Administration	Medium	Maria Vieira	100%
US19	Search Filters	M07: Search	Medium	Maria Vieira	100%
US41	Delete comment	M03: Posts and Comments	Medium	Maria Vieira	100%
US17	Recover password	M01: Authentication	Medium	Maria Vieira	100%
US230	Tag Friends in Posts	M03: Posts and Comments	Medium	Bruna Scafutto	0%
US231	View Tagged Posts	M03: Posts and Comments	Medium	Bruna Scafutto	100%
US115	Suppport contacts	M08: Administration	Medium	Marta Cruz	100%
US224	Suppport contacts	M08: Administration	Medium	Marta Cruz	100%
US236	View Groups	M05: Groups	Medium	Duarte Marques	100%
US232	Request to Join Public Group	M05: Groups	Medium	Duarte Marques	100%
US116	OAuth API Sign-up	M01: Authentication	Medium	Bruna Scafutto	100%
US117	OAuth API Sign-in	M01: Authentication	Medium	Bruna Scafutto	100%
US41	Delete Comment	M03: Posts and Comments	Medium	Maria Vieira	100%
US42	Edit Comment	M03: Posts and Comments	Medium	Bruna Scafutto	20%
US111	Contextual Error Messages	M02: Users	Medium	Maria Vieira, Duarte Marques, Marta Cruz	100%
US52	View group members	M05: Groups	Medium	Marta Cruz	100%
US53	Leave group	M05: Groups	Medium	Marta Cruz	100%

US Identifier	Name	Module	Priority	Team Members	State
US221	Delete Account	M02: Users	Medium	Duarte Marques	100%
US74	Delete User Account	M02: Users	Medium	Duarte Marques	100%
US61	Remove Member	M05: Groups	Medium	Duarte Marques	100%
US62	Add to Group	M05: Groups	Medium	Duarte Marques	100%
US229	React to Comments	M03: Posts and Comments	Medium	Maria Vieira	100%
US75	Promote user to administrator	M08: Administration	Medium	Maria Vieira	100%
US73	Block and Unblock User Accounts	M08: Administration	Medium	Bruna Scafutto	0%
US237	View reactions of posts	M03: Posts and Comments	Medium	Maria Vieira	100%
US238	View reactions of comments	M03: Posts and Comments	Medium	Maria Vieira	100%
US220	Contextual help	M08: Administration	Medium	Maria Vieira, Marta Cruz, Duarte Marques	100%
US114	View Main Features	M08: Administration	Medium	Maria Vieira	100%
US54	View Group Posts	M05: Groups	Medium	Duarte Marques	100%
US51	Post on Group	M05: Groups	Medium	Duarte Marques, Maria Vieira	100%
US63	Remove Post From Group	M05: Groups	Medium	Duarte Marques	100%
US76	Remove Post From Group (Administrator)	M05: Groups	Medium	Duarte Marques	100%
US239	Request to Join Private Group	M05: Groups	Medium	Duarte Marques, Maria Vieira	100%
US18	Search Over Multiple Attributes	M07: Search	Medium	Marta Cruz	100%
US19	Search Filters	M07: Search	Medium	Maria Vieira	100%
US110	Placeholders in Form Inputs	M02: Users	Medium	Maria Vieira	100%
US218	Placeholders in Form Inputs	M02: Users	Medium	Maria Vieira	100%
US219	Contextual Error Messages	M02: Users	Medium	Maria Vieira, Duarte Marques, Marta Cruz	100%
US222	View About Us Page	M08: Administration	Medium	Maria Vieira	100%
US223	View Main Features	M08: Administration	Medium	Maria Vieira	100%
US233	Receive notifications of likes	M06: Notifications	Medium	Marta Cruz	0%
US234	Receive notifications of comments	M06:Notifications	Medium	Marta Cruz	0%
US235	Receive notifications of friend requests	M06: Notifications	Medium	Marta Cruz	0%
US64	Change Group Visibility	M05: Groups	Low	Bruna Scafutto	0%
US65	Edit Group Info	M05: Groups	Low	Maria Vieira	0%
US66	Manage Join Requests	M05: Groups	Medium	Maria Vieira, Duarte Marques	100%

A10: Presentation

The goal of this artifact is to provide a clear and engaging overview of the product, highlighting its purpose, features, and value to stakeholders.

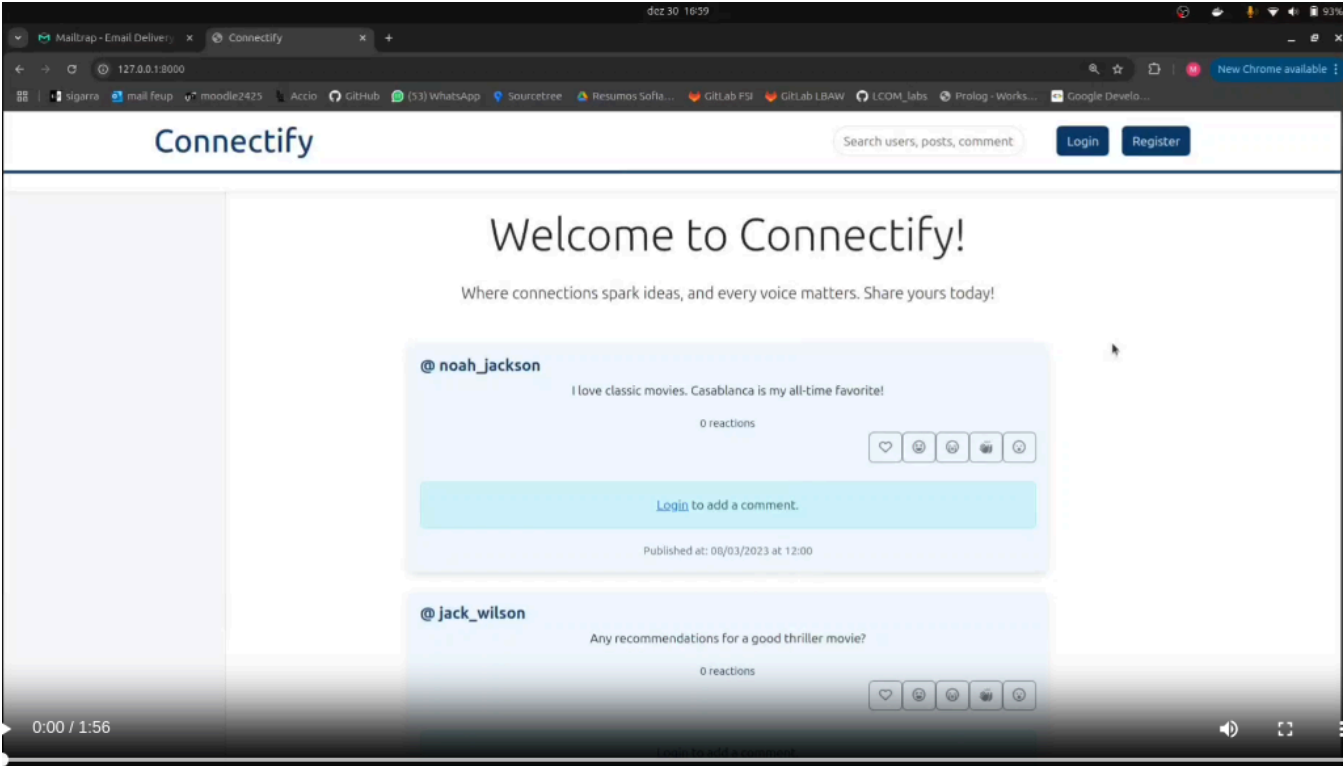
1. Product presentation

Connectify is a web-based platform designed to redefine social networking by prioritizing user empowerment, privacy, and meaningful connections. It offers a secure and personalized space for individuals to interact authentically, share content, and manage their online presence with complete control over their privacy. Unlike traditional social media platforms, Connectify ensures that users have the autonomy to decide who can access their posts, profiles, and group content, fostering a safe and supportive online community.

The platform comes equipped with a wide range of features that enhance user engagement. Users can create and manage profiles, make posts (including text, images, and links), comment on others' content, and join groups based on specific interests. Group owners have full control over group settings and membership, while administrators can manage user accounts and moderate content to maintain community standards. With advanced search functionalities and integration with external services like Google for easy login, Connectify aims to provide a seamless and enjoyable online experience that respects user privacy and autonomy.

2. Video presentation

The demo video of **Connectify** is available [here](#).



Revision history

Changes made to the first submission:

GROUP2453, 29/11/2024

- Group member 1 Maria Vieira, up202204802@g.uporto.pt
- Group member 2 Marta Cruz, up202205028@g.uporto.pt
- Group member 3 Bruna Scafutto, up202402704@g.uporto.pt
- Group member 4 Duarte Marques [editor], up202204973@g.uporto.pt