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Last edited by **Wagner Daniel Teixeira Pedrosa** 1 month ago

PA: Product and Presentation

The vision of this project is to create a social network for food enthusiasts, where they can discover, share, and engage with dining experiences worldwide. This platform will offer in-depth reviews, personalized recommendations, and community interactions, empowering food lovers to make informed dining choices and explore new culinary horizons.

A9: Product

This artifact provides an overview of the built product, including clear instructions on how to install and run it, detailed information about administration accounts, product information, features, architecture and technologies, as well as product usability and accessibility.

The Raffia final product is a web-based social network developed from the implementation of the information system designed in the previous stages to ensure a responsive and user-friendly experience.

The platform's primary goal is to connect food enthusiasts with restaurants. Users can share and discover dining experiences, while restaurants can promote their services. After signing up, users can access a platform designed to discover, review, and engage with the culinary world.

1. Installation

Link to the release with the final version of the source code in the group's Git repository.
Final Version of the Code

```
# Login to GitLab's Container Registry
docker login gitlab.up.pt:5050

# Pull the Docker image
docker pull gitlab.up.pt:5050/lbaw/lbaw2425/lbaw2432

# Run the Docker container
docker run -d --name lbaw2432 -p 8001:80 gitlab.up.pt:5050/lbaw/lbaw2425/lbaw2432

# Access the application at http://localhost:8001
```

2. Usage

2.1. Administration Credentials

Client Administration

Username	Password
nelson	nelson

Restaurant Administration

Username	Password
george_gourmet	password7

2.2. User Credentials

Type	Username	Password
Client Account	dteixeira	teixeira10
Restaurant Account	chefcharlie	password3

3. Application Help

Help-related features were implemented alongside the main functionalities. These include messages for certain actions and static pages such as "About," "Contacts," "FAQ," and "Main Features." These pages can be accessed via their URL paths, such as "/about," "/contacts," "/faq," and "/main-features," respectively, or by clicking the navigation buttons located in the footer.

The "About Us" page provides information about our social network platform.

About Us

The Raffia social network is being developed by a group of students in the Bachelor in Informatics and Computing Engineering, in the Database and Web Applications Laboratory course as a product to connect food lovers and restaurants.

The main goal of the project is to develop a social network where food enthusiasts can share their dining experiences, rate restaurants, and discover new culinary spots based on genuine reviews. We aim to build a community that values transparency, quality, and the joy of sharing gastronomic adventures.

Our platform will, from the client's perspective, serve as a go-to resource for anyone looking to explore new eateries, read honest reviews, and connect with fellow food lovers. From the restaurant's perspective, it will be a place to advertise their services and products.

The motivation behind this project stems from a passion for food and the desire to build a community around it. In the competitive world of social networking and review platforms, we recognize that many people seek reliable recommendations when choosing where to dine. Our platform will provide an all-in-one service where users can review, book, and search for restaurants, making it a comprehensive solution. With everything available in one place, users won't need multiple apps to find, rate, and reserve dining experiences — they can do it all within our platform.

Our platform will operate in a dynamic digital environment, catering to users who value authentic content. The frontend will be designed to offer an intuitive and engaging user experience across all devices, including desktops, tablets, and smartphones.

The "Contact Us" page offers support for users who have questions about our platform, need assistance, or wish to provide feedback.

Contact Us

We'd love to hear from you! Whether you have a question about our platform, need assistance, or just want to provide feedback, feel free to reach out to us.

General Inquiries

If you have any general questions or comments, please email us at:
info@raffia.com

Support

For support-related inquiries, please contact our support team at:
support@raffia.com

Partnerships

If you are a restaurant and would like to make a partnership with Raffia, please reach out to our partnerships team at:
partnerships@raffia.com

The "FAQ" page provides answers to the most commonly asked questions, helping users find quick solutions to their inquiries.

Frequently Asked Questions

What is Raffia?

Raffia is a social network developed by students in the Bachelor in Informatics and Computing Engineering, aimed at connecting food lovers and restaurants. It allows users to share dining experiences, rate restaurants, and discover new culinary spots based on genuine reviews.

How can I create an account?

You can create an account by clicking on the "Register" link on the homepage and filling out the registration form with your details.

How do I write a review?

Once you have an account, you can write a review by clicking on the plus icon on the bottom left. Then a popup will appear and you just have to fill out the review form and submit it.

Can I upload photos of my dining experiences?

Yes, you can upload photos of your meals and dining experiences when writing a review or by updating your profile.

How do I search for restaurants?

You can use the advanced search features to find restaurants by location, cuisine, rating, and other criteria. Simply enter your search terms in the search bar and browse the results.

The "Main Features" page highlights the key features implemented.

Main Features

- **User Profiles:** Personal profiles where users can upload photos, share their bio, and list their favorite cuisines and restaurants.

- **Restaurant Reviews:** Detailed reviews with ratings for various aspects such as food quality, service, ambiance, and value for money.

- **Photo Sharing:** Users can upload photos of their meals and dining experiences.

- **Search and Discovery:** Advanced search features to find restaurants by location, cuisine, rating, and other criteria.

- **Social Interaction:** Commenting, liking, and sharing reviews to foster community engagement.

- **Recommendations:** Personalized restaurant recommendations based on user preferences and review history.

- **Events and Deals:** Information on restaurant events, special offers, and exclusive deals for users.

- **Notifications:** Alerts for new reviews, comments, and updates from followed users and restaurants.

During registration, contextual help was added to assist users with the correct email format.

Register

Name *

Enter your name

E-Mail *

Enter your email

Username *

Enter your username

Password *

Enter your password

Confirm Password *

Confirm your password

Register as: *

Client

Register

Login

All the required inputs are marked with a red "*", for example, in the create post (both review and informative post), create group, and other examples.

Top 10 coffee shops in Seattle

Create Post

×

*

Write your post...

Upload Images: *

+ Choose Images

Restaurant: *

Search for a restaurant...

Rating: *

★ ★ ★ ★ ★

Post

A guide to the best vegan restaurants

Create Post

×

*

Write your post...

Upload Images: *

+ Choose Images

Post

♥   0   💬   0

Create a New Group

Group Name *

Description *

Group Type *

Public

Cancel   Create Group

We implemented error and success messages for certain actions, such as joining groups.

Joined group successfully.

Food Lovers

Leave Group

A group for anyone passionate about trying new foods and sharing experiences.

Group Type: Public
Owner: Alice Smith

4. Input Validation

For client-side validation, we used the "validate" function from Illuminate\Http\Request. We used this feature to validate the inputs in our login/register form.

For server-side validation, we checked if the email is in the correct format and whether it is already in use, ensured the chosen username is unique, and confirmed that the "Confirm Password" field matches the original password. Additionally, we validated that the user is not trying to send a friend request to themselves, that profile pictures are in the correct format and size, and that posts or comments do not contain offensive content.

5. Check Accessibility and Usability

The results of accessibility and usability tests are included, as PDF files, in the group's repository.

Accessibility

Usability

6. HTML & CSS Validation

The results of the validation of the HTML and CSS code are included, as PDF files, in the group's repository.

Validate CSS

Validate HTML

7. Revisions to the Project

Revisions have been made to the project since the requirements specification stage

1. Database:

- Changed passwords encryption method to bcrypt;
- Added a table to the database to replace the enum;
- Created tables join_request, group_invitation, appeal_unblock_notification, started_following_client_notification and started_following_restaurant_notification, delete_like_post_notification

2. Triggers:

- Created triggers user_unblock_trigger, after_update_group_invitation_status, notify_owner_of_invitation_status_change, after_delete_group_invitation, cancel_notification_client_of_group_invitation, after_insert_group_invitation, notify_client_of_group_invitation, after_delete_comment, delete_comment_notification, after_insert_comment, create_comment_notification, after_unblock_user, after_delete_groupmember_leave, delete_group_notification_after_leave, after_delete_groupmember_join, delete_group_notification_after_join, after_delete_review_post, delete_group_notification_after_post, after_delete_like_post, delete_like_post_notification, after_delete_like_comment, delete_like_comment_notification, after_delete_follows_restaurant, delete_follows_restaurant_notification, delete_follows_client_notification, insert_follows_restaurant_notification, after_insert_follows_client

3. User stories:

- Highlight seasonal dishes
- Appeal for Unblock

8. Implementation Details

8.1. Libraries Used

1. Laravel Framework

- Reference: laravel/framework
- Description: Laravel is the main PHP framework used for building the application. It provides essential tools for routing, controllers, models, and database management, helping to structure and manage the application efficiently.
- Example: web.php
- Link: [Laravel Documentation](#)

2. Tailwind CSS

- Reference: tailwindcss/tailwindcss
- Description: Tailwind CSS is a utility-first CSS framework used to build custom designs without writing custom CSS. It is employed to style the application, ensuring a responsive and clean layout.
- Example: tailwind.config.js
- Link: [Tailwind CSS Documentation](#)

3. Pusher PHP Server

- Reference: pusher/pusher-php-server
- Description: Pusher is used to integrate real-time web features into the application. It enables features such as real-time notifications and live updates, enhancing user engagement with instant information delivery.
- Example: pusher.blade.php
- Link: [Pusher PHP Server Documentation](#)

4. Mailtrap

- Reference: mailtrap/mailtrap
- Description: Mailtrap is used for safe email testing, allowing developers to simulate and inspect the emails sent from the application without actually sending them to real email addresses.
- Example: mail.php
- Link: [Mailtrap Documentation](#)

8.2 User Stories

> This subsection should include all high and medium priority user stories, sorted by order of implementation. Implementation should be sequential according to the order identified below.
>
> If there are new user stories, also include them in this table. The owner of the user story should have the name in **bold**. This table should be updated when a user story is completed and another one started.

US Identifier	Name	Module	Priority	Team Members	State
U01	View a public timeline	Module 3	High	Nelson Neto	100%
U02	View public user profiles	Module 2	High	Paulo Fidalgo	100%
U03	Search Profiles	Module 4	High	Paulo Fidalgo	100%
U04	Exact Match Search	Module 4	High	Paulo Fidalgo	100%
U05	Full-text Search	Module 4	High	Paulo Fidalgo	100%
V01	Sign In	Module 1	High	Sara Azevedo	100%

US Identifier	Name	Module	Priority	Team Members	State
V02	Sign Up	Module 1	High	Sara Azevedo	100%
A01	View personalized timeline	Module 3	High	Nelson Neto	100%
A02	View public user profiles	Module 2	High	Paulo Fidalgo	100%
A03	View own profile	Module 2	High	Paulo Fidalgo	100%
A04	Edit profile	Module 2	High	Paulo Fidalgo	100%
AC01	Follow Users	Module 2	High	Paulo Fidalgo	100%
AC02	Create a review	Module 3	High	Nelson Neto	100%
AC03	View followed users' feed	Module 3	High	Paulo Fidalgo	100%
AC04	See network posts	Module 3	High	Nelson Neto	100%
PA01	Edit post	Module 3	High	Nelson Neto	100%
PA02	Delete post	Module 3	High	Wagner Pedrosa	100%
ADMIN01	Administer User Accounts	Module 5	High	Sara Azevedo	100%
U06	Search Groups	Module 4	Medium	Wagner Pedrosa	100%
U07	Search Posts	Module 4	Medium	Paulo Fidalgo	100%
U08	Search Comments	Module 4	Medium	Paulo Fidalgo	100%
U09	View 'About Us' Section	Module 5	Medium	Wagner Pedrosa	100%
U10	View 'Main Features' Section	Module 5	Medium	Wagner Pedrosa	100%
U11	Access 'Contacts' Section	Module 5	Medium	Wagner Pedrosa	100%
U12	Search over Multiple Attributes	Module 4	Medium	Paulo Fidalgo	100%
U13	Search Filters	Module 4	Medium	Paulo Fidalgo	100%
U15	Placeholders in Form Inputs	Module 1	Medium	Sara Azevedo	100%
U16	Contextual Error Messages	Module 3	Medium	Wagner Pedrosa	100%
U17	Contextual Help	Module 1	Medium	Sara Azevedo	100%
V03	Recover Password	Module 1	Medium	Sara Azevedo	100%
A05	Support profile picture	Module 2	Medium	Paulo Fidalgo	100%
A06	Delete account	Module 2	Medium	Paulo Fidalgo	100%
A07	Receive notifications	Module 3	Medium	Paulo Fidalgo	100%
A08	Comment on posts	Module 3	Medium	Wagner Pedrosa	100%
A09	React to posts	Module 3	Medium	Wagner Pedrosa	100%
A10	View profile feeds	Module 2	Medium	Paulo Fidalgo	100%
A11	React to comments	Module 3	Medium	Wagner Pedrosa	100%
AC05	Accept follow requests	Module 2	Medium	Paulo Fidalgo	100%
AC06	Reject follow requests	Module 2	Medium	Paulo Fidalgo	100%
AC07	Create a group	Module 3	Medium	Wagner Pedrosa	100%
AC08	Follow public groups	Module 2	Medium	Wagner Pedrosa	100%

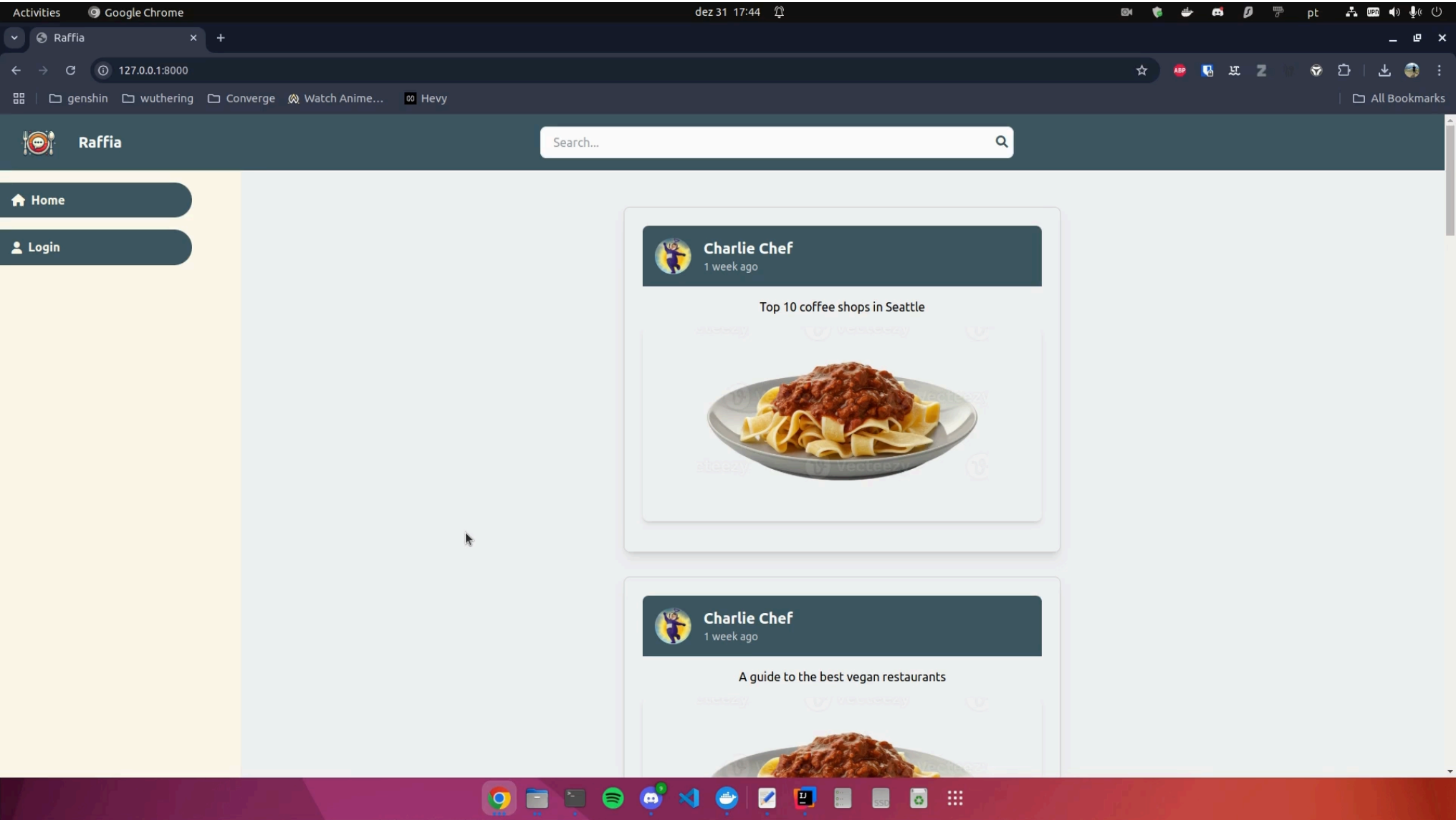| US Identifier	Name	Module	Priority	Team Members	State
AC09	Request to join groups	Module 2	Medium	Wagner Pedrosa	100%
AR01	Post restaurant information	Module 3	Medium	Nelson Neto	100%
GM01	Post on group	Module 3	Medium	Nelson Neto	100%
GM02	View group's members	Module 2	Medium	Wagner Pedrosa	100%
GM03	Leave group	Module 2	Medium	Wagner Pedrosa	100%
GO1	Manage Join Requests	Module 2	Medium	Wagner Pedrosa	100%
GO2	Remove Member	Module 2	Medium	Wagner Pedrosa	100%
GO3	Invite to Group	Module 2	Medium	Wagner Pedrosa	100%
GO4	Edit Group Information	Module 2	Medium	Wagner Pedrosa	100%
CA01	Edit comment	Module 3	Medium	Wagner Pedrosa	100%
CA02	Delete comment	Module 3	Medium	Wagner Pedrosa	100%
ADMIN02	Block and Unblock User Accounts	Module 5	Medium	Paulo Fidalgo	100%
ADMIN03	Delete User Account	Module 5	Medium	Paulo Fidalgo	100%
AC10	Notification of accepted follow	Module 2	Low	Paulo Fidalgo	100%
AC11	Receive notifications on group status	Module A	Low	Paulo Fidalgo	100%
GO5	Remove Post from Group	Module 3	Low	Nelson Neto	100%
PA04	Delete comment in post	Module 3	Low	Nelson Neto	100%
US01	Highlight seasonal dishes	Module 3	Low	Sara Azevedo	100%
US02	Appeal for Unblock	Module 5	Low	Paulo Fidalgo	100%

A10: Presentation

This artifact aims to present the final version of the Raffia Social Network, covering all the functionalities included in the project, instructions on how to use the app, and a video illustrating its features.

1. Product presentation

Raffia is a social network built for food enthusiasts to share dining experiences, post reviews, and explore dining options. The platform is designed to simplify the process of connecting with others who have similar culinary interests while discovering new restaurants and cuisines. With features like private profiles, group interactions, and real-time updates, Raffia creates a space for users to engage with the food community in a meaningful way.

The platform's intuitive layout includes a sidebar that organizes all the essential actions in one place, ensuring easy navigation. Static pages offer clear instructions and guidance, making it simple for users to take full advantage of the platform's features. Developed with the Laravel framework for backend functionality, Tailwind CSS for a responsive design, and Pusher for real-time updates, Raffia provides a reliable and user-friendly experience. Mailtrap was used during development to ensure secure and efficient email testing.

2. Video presentation

https://www.youtube.com/watch?v=h2qxsFHMRZM

Revision history

Revision 1:

- Editor: Paulo Fidalgo
- Date: 23/12/2024
- Changes:
  - Added brief description of the artefacts
  - Changed images to include the updated version of the project
  - Changed link to release
  - Added more illustrative images of the project

Editor: Paulo Fidalgo

GROUP2432, 22/12/2024

- Paulo Fidalgo, up201806603@fe.up.pt
- Wagner Pedrosa, up201908556@fe.up.pt
- Sara Azevedo, up202006902@fe.up.pt
- Nelson Neto, up202108117@fe.up.pt