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PA: Product and Presentation

Planora is a flexible and efficient project management platform that empowers individuals and teams to organize, track, and complete their projects with ease. Designed with user-friendly navigation and a responsive interface, it enables seamless collaboration and task management across all devices.

A9: Product

The artifact provides a platform for user management, security features, and responsive design for a seamless and reliable user experience.

We have developed a user-friendly platform designed to help individuals and teams organize and manage projects efficiently. With its intuitive interface, anyone can easily create and manage projects, regardless of their technical expertise. Key features include:

- Project Management: Create and manage projects.
- User Collaboration: Invite team members and assign tasks to specific users to foster collaboration.
- Task Management: Organize work efficiently by creating, assigning, and tracking tasks.
- Real-Time Notifications: Stay updated with project changes and progress through a real-time notification system.
- Administrative Control: Admins have the ability to maintain platform integrity by blocking or banning users when necessary, ensuring a safe and productive environment.

1. Installation

To run our prototype, you can use a Docker image we uploaded to Gitlab.

```
docker run -d --name lbaw24135 -p 8001:80 \
gitlab.up.pt:5050/lbaw/lbaw2425/lbaw24135:latest
```

Credentials as email, password:
admin: up202205295@up.pt, 1234
regular: up202206205@up.pt, 1234

Final release source code

2. Usage

2.1. Administration Credentials

Email	Username	Password
up202205295@up.pt	up202205295	1234

2.2. User Credentials

Type	Email	Password
basic account	up202206205@up.pt	1234

3. Application Help

To enhance the user experience, we have implemented several features to provide guidance and support throughout the application. For complex functionalities, a small help icon is displayed next to the respective feature. When users hover over the icon, a brief explanatory text appears, offering immediate assistance.

Additionally, placeholders are included in form inputs to clearly indicate what LBAT information is required and how to properly complete the form. Contextual error messages are also provided, enabling users to understand what went wrong during their interaction.

Notifications are designed to keep users informed in real time about relevant updates, such as project invitations or activities in which they are involved. Notifications appear directly in the sidebar, ensuring quick and seamless access without interrupting the workflow.

Finally, an "About Us" page is available, highlighting the application's main features and providing users with a comprehensive overview of its capabilities. These elements collectively ensure a more intuitive and seamless user experience.

In case further assistance is needed, a "Contacts" page is available with all the necessary information to get in touch.

4. Input Validation

Input validation is implemented across all forms to ensure data integrity and enhance the user experience. On the client side, during login, if the user does not provide a password, the application immediately prompts them to enter one. Additionally, if the password entered is invalid, a warning message is displayed, helping the user correct the issue before submission. On the server side, during user registration, the system ensures that the email contains an "@" symbol to validate its format and verifies that text inputs do not exceed acceptable length limits.

This comprehensive validation process ensures that all form submissions meet the application's requirements, providing a seamless and secure experience for users.

5. Check Accessibility and Usability

- [Accessibility](#) 10/18
- [Usability](#) 15/28

6. HTML & CSS Validation

- [HTML](#)
- [CSS](#)

7. Revisions to the Project

Significant revisions have been made since the initial project specification, focusing on prioritising core functionality and enhancing user experience:

- **Non-Implementation of Certain APIs**

  1. **Google Calendar API**: Initially intended to sync calendar data, such as project meetings, deadlines, and milestones, with the project management platform.
  2. **GitHub Issues API**: Planned for syncing project tasks, issues, and progress from GitHub repositories. These APIs were not implemented as they were determined to provide limited value to the project. Allocating resources to these features would have detracted from completing medium-priority tasks that are crucial for the final product.

- **Notification Mechanism Adjustment**

Originally, notifications were designed to be implemented using a push system. Instead, notifications are now displayed in real-time on the sidebar. This allows users to monitor relevant updates, such as activities in integrated projects or invitations, without a push-based architecture, simplifying implementation while maintaining functionality.

- **Pagination Implementation**

Pagination has been added to all pages to improve the user experience when dealing with a large number of projects. This change ensures better navigation and system performance in scenarios involving extensive datasets.

- **Comment Relations**

Originally, the plan was to have a `comment_relation` entity within the comment structure to define parent-child relationships between comments. This would have involved introducing an identifier for the parent comment, which could potentially be null. However, this approach was revised due to concerns about the complexity of managing such relationships. Consequently, the system has been simplified to maintain a single table for comments without distinguishing between parent and child comments.

8. Implementation Details

8.1. Libraries Used

- [Laravel](#), is the backend framework used for implementing business logic, managing the database with Eloquent ORM, and creating APIs. It also handles authentication, routing, and other core backend functionalities efficiently.
- [Bootstrap](#), is employed as the front-end framework to ensure responsive design and uniformity across the user interface. It is instrumental in structuring and styling various elements of the pages, such as tables, forms and buttons. Additionally, Bootstrap's grid system allows for dynamic responsiveness, ensuring that the application is accessible and visually appealing across a range of devices and screen sizes.
- [Mailtrap](#), is used to simulate email functionality within the application. It plays a crucial role in testing and validating email-related features without sending real emails. Specifically:
  1. **Password Recovery**: Mailtrap is utilised to simulate the process of a user requesting a password reset, allowing for secure and effective testing of this functionality.
  2. **User Invitations**: Instead of solely relying on the in-platform invitation system, Mailtrap facilitates sending simulated invitation emails to users. This ensures that the invitation process, whether via email or through the platform, works seamlessly and provides a reliable alternative method for inviting users to join projects.

8.2 User Stories

The table below outlines the user stories implemented.

US Identifier	Name	Module	Priority	Team Members	State
US01	Sign In	Visitor	High	**Rui**	100%
US02	Sign Up	Visitor	High	**Rui**	100%
US03	Logout	User	High	**Rui**	100%
US04	View Profile	User	High	**Diogo**	100%
US05	Edit Profile	User	High	**Diogo**	100%
US06	Exact Match Search	User	High	**Gonçalo**	100%
US07	Full-text Search	User	High	**Gonçalo**	100%
US08	Create Project	User	High	**Lucas**	100%
US09	View My Projects	User	High	**Lucas**, Gonçalo	100%
US29	Create Task	Project Member	High	**Lucas**, Rui	100%
US30	Manage Tasks	Project Member	High	**Lucas**, Rui	100%
US31	View Task Details	Project Member	High	**Diogo**, Rui	100%
US32	Complete an Assigned Task	Project Member	High	**Diogo**	100%
US33	Search Tasks	Project Member	High	**Gonçalo**	100%
US44	Add User to Project	Project Coordinator	High	**Rui**, Lucas	100%
US53	Administer User Accounts	Administrator	High	**Gonçalo**	100%
US10	Recover Password	User	Medium	**Lucas**, Rui	100%
US11	Delete Account	User	Medium	**Gonçalo**	100%
US12	Support Profile Picture	User	Medium	**Diogo**, Lucas, Gonçalo	100%
US13	View Personal Notifications	User	Medium	**Rui**, Diogo, Lucas	100%
US14	Search Over Multiple Attributes	User	Medium	**Gonçalo**	100%
US15	Search Filters	User	Medium	**Gonçalo**	100%
US16	Placeholders in Form Inputs	User	Medium	**Diogo**	100%
US17	Contextual Error Messages	User	Medium	**Diogo**, Rui	100%
US18	Contextual Help	User	Medium	**Lucas**, Rui	100%
US19	About Us	User	Medium	**Rui**	100%
US20	Main Features	User	Medium	**Lucas**, Rui	100%
US21	Contacts	User	Medium	**Rui**	100%
US22	Accept Email Invitation	User	Medium	**Lucas**, Rui	100%
US23	Mark Project As Favorite	User	Medium	**Lucas**, Rui	100%
US24	Completed Task in Project Managed or in Participating Task	User	Medium	**Diogo**	100%
US34	Assign Users To Tasks	Project Member	Medium	**Lucas**, Diogo	100%
US35	Comment on Task	Project Member	Medium	**Rui**, Gonçalo	100%

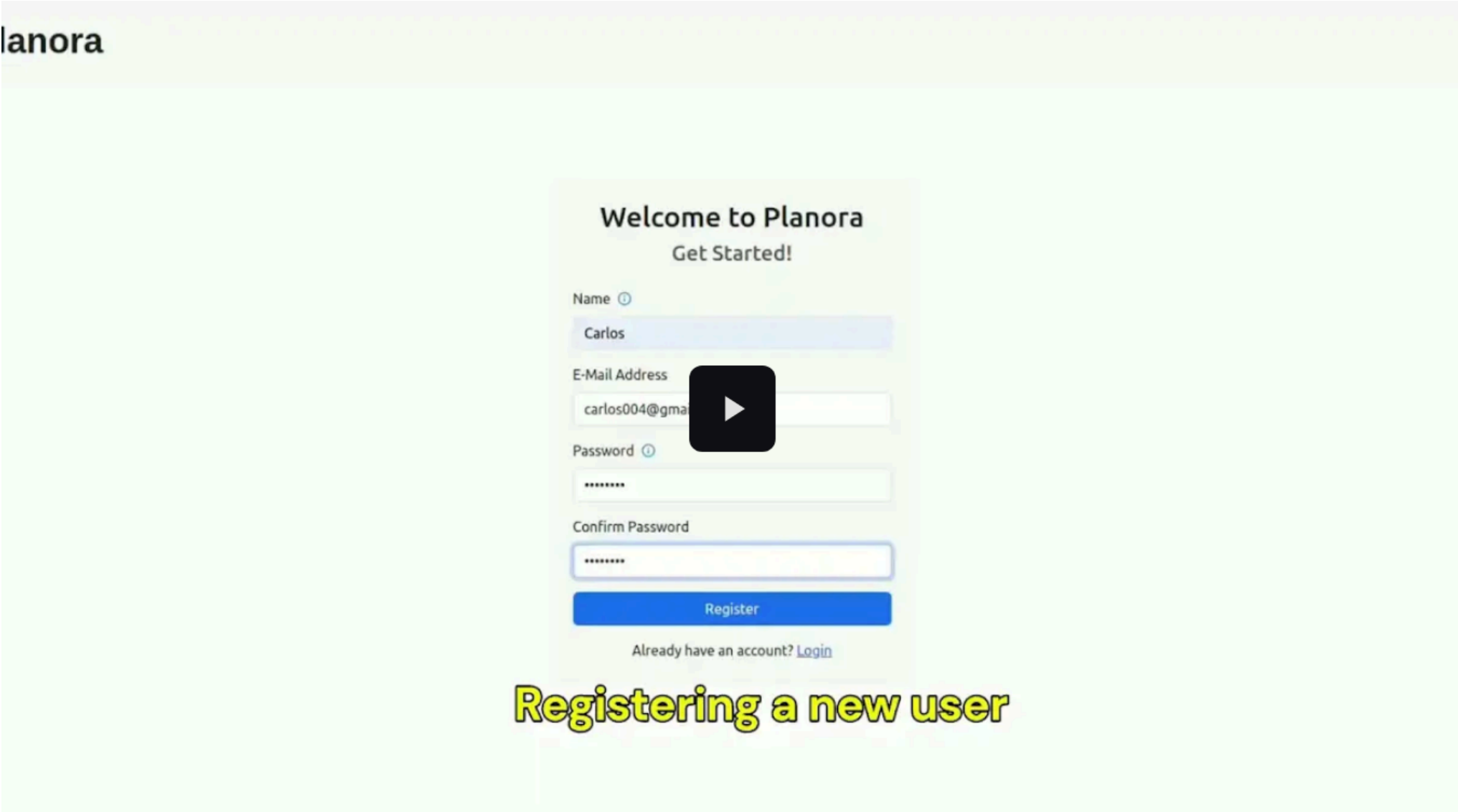| US Identifier	Name	Module	Priority	Team Members	State
US36	Leave Project	Project Member	Medium	**Lucas**	100%
US37	View Project Team	Project Member	Medium	**Diogo**, Gonçalo	100%
US38	View Team Members Profiles	Project Member	Medium	**Diogo**	100%
US39	Google Calendar Integration	Project Member	Medium	**Gonçalo**	0%
US40	Assigned to Task	Project Member	Medium	**Diogo**	100%
US41	Change In Project Coordinator	Project Member	Medium	**Diogo**, Lucas	100%
US45	Assign New Coordinator	Project Coordinator	Medium	**Rui**	100%
US46	Edit Project Details	Project Coordinator	Medium	**Lucas**	100%
US47	Assign Task to Member	Project Coordinator	Medium	**Lucas**, Diogo	100%
US48	Remove Project Member	Project Coordinator	Medium	**Gonçalo**	100%
US49	Archive Project	Project Coordinator	Medium	**Gonçalo**	100%
US50	Accepted Invitation to Project	Project Coordinator	Medium	**Diogo**, Lucas	100%
US54	Administrator Accounts	Administrator	Medium	**Gonçalo**	100%
US55	Block and Unblock User Accounts	Administrator	Medium	**Rui**	100%
US56	Delete User Account	Administrator	Medium	**Rui**, Gonçalo	100%
US57	Browse Projects	Administrator	Medium	**Diogo**	100%
US58	View Project Details	Administrator	Medium	**Diogo**	100%
US25	Ordering of Results	User	Low	**Gonçalo**	0%
US26	Manage Project Invitation	User	Low	**Lucas**	100%
US27	Edit Post	User	Low	**Rui**	0%
US28	Delete Post	User	Low	**Rui**	0%
US42	View Project Timeline	Project Member	Low	**Rui**	0%
US43	Github Integration	Project Member	Low	**Gonçalo**	0%
US51	Manage Members Permissions	Project Coordinator	Low	**Diogo**, Gonçalo	100%
US52	Invite to Project by Email	Project Coordinator	Low	**Lucas**, Rui	100%

A10: Presentation

This artifact provides an overview of Planora, highlighting its key features for project management and promoting its use through an illustrative video presentation.

1. Product presentation

Planora is a flexible and efficient project management platform designed to empower individuals and teams to organize, track, and complete their projects with ease. With intuitive navigation and a responsive interface, Planora enables seamless collaboration and effective task management across all devices, ensuring that users can work cohesively regardless of their location or the medium used.

Among its key features are project creation and management, task assignment and monitoring, advanced search with multiple filters, and internal communication tools such as task comments and personalized notifications. Additionally, Planora offers robust administrative functionalities, allowing administrators to manage user accounts and permissions. These features make Planora a comprehensive and adaptable solution tailored to the diverse needs of any team or project.

2. Video presentation

[Link to the video](#)

Revision history

Changes made to the first submission:

1. Item 1
2. ..

GROUP24135, 31/12/2024

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