



Ecolink



Universidade de Brasília
Executive Report PSP5

Universidade de Brasília
Engenharia de Produção – Projeto de Sistema de Produção 5



Disciplina: Projeto de Sistema de Produção 5 – PSP5
Engenharia de Produção – Faculdade de Tecnologia –
Universidade de Brasília
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Project Title:

Sustainable Hub App - Ecolink

Project Implementation Semester:

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Problem Description:

Sustainability faces the challenge of fragmented information and initiatives, which compromises its effectiveness and reach. The absence of a centralized platform makes it difficult to access, manage projects, and engage individuals and organizations. This limits the dissemination of sustainable practices and the collaboration necessary for impactful solutions. The creation of an integrated app aims to solve this issue by providing unified access to data, facilitating mobilization, and promoting greater efficiency in implementing sustainable actions.

Project Objective:

Propose the structuring of an application that centralizes data and initiatives related to sustainability, contributing to practical solutions that positively impact society.

Generated Products:

Sustainability is one of the great global challenges, requiring solutions that integrate economic development, social inclusion, and environmental preservation. The problem faced is the dispersion of information and sustainable initiatives, making it difficult to access, manage, and collaborate among people and organizations. To address this issue, this project proposes the development of an app that centralizes data, facilitates engagement, and promotes the dissemination of responsible practices.

The project followed a methodological approach based on a literature review and analysis of digital technologies applied to sustainability and project management. As a practical result, a prioritization spreadsheet for functional and non-functional requirements was created, considering criteria such as impact, technical feasibility, and importance to end users. This prioritization was essential to ensure efficient development aligned with the needs of the target audience.

The requirements spreadsheet was delivered to the Production System Process 2 (PSP2), who will use this information to create the app's screens and interfaces. This collaboration between the teams ensures that the screen designs reflect the project's objectives, promoting an intuitive and effective user experience to facilitate access and management of sustainable initiatives.

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Executive Report

1. Introduction

This Executive Report aims to provide an overview of the activities carried out during the sprint, consolidating the most relevant information for monitoring progress.

In this document, the main objective defined for the sprint, the activities developed by the team, the results achieved, the challenges faced, and the next steps recommended to ensure the continuity and success of the project will be recorded.

The report seeks to provide a clear and objective view to support decision-making and planning for the next steps.

The project emerged from the need to improve the functional requirements of the Ecolink app, defined in the previous semester. This enhancement includes the qualitative review of the raised requirements, definition of screens and their respective requirements, and a detailed description of each requirement.

As a result of the project, we will have all requirements well detailed and accurate for each app screen, serving as a fundamental pillar for the creation of the screens by the PSP2 team.

2. Methodology

The methodology adopted during the project was based on agile sprints for organizing and executing the activities. The project stages were divided into: Qualitative Analysis of the requirements raised in the previous semester, Definition of the screens needed for each module of the application, Gathering of requirements for each screen, and finally, Detailing of the requirements for each screen.

Additionally, close communication with the PSP2 group was essential, as the projects are interdependent.

3. Technical Analysis

Sprint 1:

The Sprint focused on training the team regarding the projects carried out in previous semesters, with the objective of understanding the current context of the program and assisting in planning the next steps for the PSP5 2024.02 project. Additionally, based on the initial understanding of the project and the needs of the PSP2 2024.02 team for screen creation, a template was created to list, prioritize, and refine the functional requirements for the Ecolink app.

Activities:

- Review of previous project documents to understand the current project context.
- Meeting with the PSP2 team to understand their needs for screen creation.
- Definition of a method for gathering, prioritizing, and refining requirements.
- Creation of a template to register prioritized and refined requirements.

Results:

- The team gained a complete understanding of the project context, assisting in the planning of the next sprints.
- Based on this understanding, a template spreadsheet for the requirements refinement project was created.

Challenges:

- The large amount of materials from previous projects, as well as conflicting information among them, slowed down the training process.

- Late communication with the PSP2 team hindered activity planning, as we didn't fully understand their needs from the beginning.

Sprint 2:

Sprint 2 focused on analyzing and refining the functional requirements for the Marketplace and Information modules of the Ecolink app. Additionally, efforts were made to align with the demands of the PSP5 and PSP2 teams, consolidating the final requirements and preparing them for the development phase. The work included brainstorming sessions, detailed reviews, and prioritization of features.

Activities:

- Definition and prioritization of screens for the Marketplace and Information modules.
- Definition and prioritization of requirements for each screen of the Marketplace and Information modules.
- Detailing of prioritized requirements for each screen of the Marketplace and Information modules.

Results:

- Refined and prioritized requirements for the Marketplace and Information modules.
- Clear definition of screens and functionalities, aligned with the identified needs.

Challenges:

- Significant need for communication with the PSP2 team.
- Engagement of PSP5 members for project execution.

Sprint 3:

Sprint 3 focused on validating the Marketplace screens created by the PSP2 team and validating and refining the requirements for the Information module.

Activities:

- Validation of the Marketplace screens created by the PSP2 team.
- Validation and refinement of the requirements for the Information module.

Results:

- The Marketplace module screens were well aligned with the defined requirements.
- Requirements for the Information module were ready to be delivered to the PSP2 team.

Challenges:

- Difficulty in communication with the PSP2 team, with delays in responses.
- Engagement of PSP5 members for project execution.

Planned Activities for Sprint 4:

- Define and prioritize screens for the Community module.
- Define and prioritize requirements for the Community module screens.
- Validate the Information module screens created by the PSP2 team.

Overall Focus: Finish the sprint with the Marketplace and Information module screens completed by the PSP2 team and validated by the PSP5 team, as well as finalize all requirements for the Community module.

Sprint 4:

Sprint 4 focused primarily on the Community module. The team worked on defining and prioritizing the screens and requirements related to this module. Validation of the Information module screens created by the PSP2 team was also planned, but this step was not completed as the screens were not finalized in time by the responsible team.

Activities:

- Definition and prioritization of screens for the Community module.
- Definition and prioritization of requirements for the Community module screens.

Results:

- Screens and requirements for the Community module were defined and prioritized, aligned with project demands.
- Significant progress was made in detailing the requirements for the Community module.

Challenges:

- Delay in the delivery of the Information module screens by the PSP2 team, preventing validation during this sprint.
- Need for greater integration and alignment between teams to ensure continuity of planned activities.

Planned Activities for Sprint 5:

- Validate the screens of the Community module.
- Make general adjustments to the project, focusing on aligning deliveries and resolving pending issues identified in previous sprints.

With these activities, the goal is to consolidate the progress made so far and ensure that the project continues aligned with its objectives, reinforcing the quality of deliveries and the feasibility of the Ecolink app as an innovative solution in the context of sustainability.

Sprint 5:

In Sprint 5, the validation of the Community module screens was carried out, ensuring they met the established requirements and stakeholder expectations. Additionally, general adjustments were made to the project, focusing on aligning the deliveries and resolving pending issues identified in previous sprints. These actions were crucial to consolidate the project's progress and ensure the quality of the planned deliveries.

Activities:

- Validation of the Community module screens.
- General adjustments to the project.

Results:

- Completion of the project with the full execution of all planned deliveries.

4. Results

The main results obtained include:

- In-depth understanding of the project context and creation of a template to refine the requirements.
- Refinement and prioritization of requirements for the Marketplace, Information, and Community modules, with clear definitions of screens and functionalities.
- Validation of functionalities with the involved teams, preparing the modules for development.

Challenges such as alignment between teams and the identification of new demands were overcome, ensuring that the project progresses as planned in the upcoming sprints.

5. Conclusion

The project successfully achieved its objective of structuring an app that centralizes data and initiatives focused on sustainability. The completion of the planned deliverables ensured the efficient prioritization of the requirements necessary for the development of the screens by the PSP2 team.

The deliverables made in each sprint were fundamental to the project's success. In Sprint 1, materials from previous projects were studied, and the initial structure was planned with a detailed qualitative analysis of the requirements. In Sprints 2, 3, and 4, the requirements for the Marketplace, Information, and Community modules were defined, prioritized, and refined, providing clarity and accuracy for the creation of the screens. Finally, Sprint 4 also resulted in the final report on refinement and prioritization (To Be), consolidating the decisions made throughout the project.

The success of the project was measured by the indicator of fulfilling 100% of the planned deliverables, ensuring the delivery of all products described in the initial scope. The alignment with the proposed objectives and the use of an agile methodology for prioritizing requirements allowed for efficient and collaborative management, facilitating communication between teams and optimizing the app development process.

Thus, the project was successfully completed, and the delivery of the prioritization spreadsheet enabled the PSP2 team to develop screens aligned with expectations, promoting an effective and accessible user experience to disseminate sustainable practices in an integrated and impactful way.

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