Planet Pulse Project

Description:

Uma imagem com texto, Gráficos, logótipo, Tipo de letra

Os conteúdos gerados por IA poderão estar incorretos.

**Version 1.5**

Isep-Pesti

1220741

(Bernardo Barbosa)

Advisor:

(Nuno Escudeiro)

Preponent:

(Ricardo Almeida)

**Index**

[**1)** **Introduction** 3](#_Toc195657255)

[2) Project Description 3](#_Toc195657256)

[3) Objetives 3](#_Toc195657257)

[4) Actors and Responsibilities 4](#_Toc195657258)

[**5) Use Cases:** 5](#_Toc195657259)

[**Sprint 1 (Requirements+Design):** 5](#_Toc195657260)

[**Sprint 2 (FrontEnd)** 5](#_Toc195657261)

[**Sprint 3** 6](#_Toc195657262)

[**General Backoffice** 6](#_Toc195657263)

[6 Planning: 9](#_Toc195657264)

# Introduction:

Giiven the current context, the world we live in today is full of **harmful environmental practices** and a **waste of fuel and natural resources**.

Even species that were once considered common — like pandas — are now **struggling to survive or even facing extinction** and News species due to enviromental changes are here to take over such as pry processory moth

The website aims to provide stories about different species and make them acessível to all users.

The main objective of the website to be developed is to **showcase and share new species discoveries or news about animals in our environment**.

# Project Description

The planet we inhabit is facing unprecedented pressure due to the rapid growth of the economy and population. This challenge demands structured responses, which can be driven by civil society initiatives aimed at promoting environmental sustainability. These initiatives can, in particular, contribute significantly to the adoption of best practices and to the mitigation of behaviors that are harmful to the environment.

The divulgation of environmental initiatives and the active participation of citizens in identifying and communicating good and bad environmental practices in their region will contribute to a greater awareness, reinforcing the sense of responsibility and promoting sustainable attitudes with a lasting impact on current and future generations.

# Objetives

The PlanetPulse webapp seeks to stimulate a responsible and informed mindset towards the environmental sustainability in the young generation, at school age.

The specific objectives are:

1. Promote the interest of young students in environmental sustainability.
2. Setup an online public window – the PlanetPulse webapp – where all can search and know about good and bad practices for environmental sustainability; where all can “feel the pulse of the planet”.
3. Establish the PlanetPulse taskforce, an international workgroup of volunteers (students, teachers) responsible for keeping the PlanetPulse webapp content updated: validating news submitted to the PlanetPulse platform and keeping the platform content updated (refresh content on a semestral basis). Volunteers will get a certificate. Partner schools will integrate this activity in their own portfolio of volunteer extra-curricular activities.

The webapp must include (1) a page with base information about environment protection and biodiversity and (2) an online platform to view, submit and manage PlanetPulse News. It will include the required facilities to support searching and browsing, submitting, validating and automatically publishing validated PlanetPulse News. The webapp will also link to PlanetPulse sociais networks (Instagram, LinkedIn, Facebook, …).

# Actors and Responsibilities

**4.1 Actors:**

**Product Owner:** Main Client of Project.

**Members:** Registered users: this can be users or Professors.

**Students:** Registered users: this can be Students or Professors. Both students and professors are members of a team submitting News/Spot. Both are co-responsible for editing the News, submitting it and correcting any improvement comments by the Validators when the submission is rejected. The Student and Pofessor role is merely a property that has no effect at all in the functionalities; both have permissions for the same functionalities.

**Validators:** Responisble for validating all adds/News.

**Admin:** Responsible for website roles and permission. Also responsible assigning roles to registered users.

**Partners: (Not needed for now):** Responsible to give feedback about a website.

**Note:** Besides the prodcut Owner, all actors play a role on the website.

**4.2 Roles:**

**Validators:**

**Admin :**

**Member:**

# **5) Use Cases (Product Backlog):**

## **Sprint 1 (Requirements+Design):**

**US01**– As a Product Owner, I would like a **relational Domain Model** to be created so that it can showcase all the business logic of the project.

**Acceptance Criteria:** There are no restrictions on which design patterns can be used; however**, Domain Drive Design** is recommended.

**US02 –**As a Product Owner, I would like all Project **functional** and **non-functional** requirements and project-related information to be thoroughly gathered and clearly specified.

**US03 –**As a Product Owner, I would like a **State Machine** to be provided to represent all possible state transitions before publication or complete deletion.

**US04 :** As a Product Owner, I would like a **Website Wireframe(s)** to be provided , in order to represent a good overall website structure.

**US05 –**As a Product Owner, I would like for **a prodcut backlog** with all the necessary user stories and tasks for the Project to be added

## 

## **Sprint 2 (FrontEnd)**

***US06****–*As a Product Owner, I would like all wireframe specifications and designs to be implemented in a UI interface: **the frontend.**

***Acceptance Criteria:*** *React and Next.js should be used for development, as specified in* ***NF3.***

***US07****–*As a Product Owner, I would like to be dine for each user stories a system sequence diagram (SSD) to represente the user stories logic.

***Acceptance Criteria:*** *The language to be user should be uml . Each user stories should have at least one Design diagram (ssd), a user stories can also have a system diagram.*

## **Sprint 3**

### **General Backoffice**

**US08** –As an unregistered user, I want to be able to register myself.

1: Send confirmation emails with randomly generated confirmation/password or link.

2: Roles that can be assigned: **Professor**, **Student**, **Validator**, or **Admin**.

**Acceptance Criteria:**

Registered users are directly assigned as members ( Professor or Students) by deafault

**US09**: **As a Member, I want to post News/Spots.**  
**Acceptance Criteria:**  
A member is considered to be either a **Student** or a **Professor**, as defined in the actors or responsibilities section (link to paragraph).

**Acceptance Criteria:**

Only roles which aplly are roles noted on 4.2 section.

**US11 – US10 – As a User (registered or unregistered), I want to search and view News/Spots**

**Acceptance Criteria:**  
Filters available: **Title**, **Team**, **Location**, **Category**, etc.

**Acceptance Criteria:**Registered users are assigned as  Member role by default.

**US12 –** As an Admin, I want to assign Admin or Validator roles to registered users.

**Acceptance Criteria:  
Roles must follow the definitions in Section 4.2.**

**User Dashboard:**

(Features):

**US13** – As Validator, I want to be able to select pending **news/spots** on my dashboard to **reject / accept them**.

**Acceptance Criteria: If any news are rejected Feedback should be added.**

**US 14:** As a Member I want to delete a News/Spot that has been submitted by me.

**Web Design**

**US15** – As a Product Owner, I would like the web app to display a Contact us section.

**Acceptance Criteria (related to US13):**  
Display: **name, company location**, and optionally **phone/email**. If unavailable, indicate that **no physical contact** is provided..

**US16** – As a Product Owner, I would like the web app Home Page to display a **Contact us FAQ Page/Label**

**Acceptance Criteria : ??**

**US 17:** As a Member I want to have access to my News/Spots and know what is the current state of each one and the evolution (list of the states that the News/spot went through and the date when the state was entered)

**US18:** As a Member I want to have access to my News/Spots that have been rejected and need to be reviewed so I can review them and submit again for a new validation round

**News:**

**US19** – As a Prodcut Owner, I want the Devolopers (s )of the Project to develop and implement a Web App with **a private and public Area** that only admins and the validators can access.

**Public Area:**

**US20** – As an Admin, I would like to manage public areas.

**US21** – As a Product Owner, I want **the public area** to be indexed and display basic information about environmental sustainability and related news.

**Private Area:**

**US23** – As a product Owner, I would like the site to allow highlighting or pinning specific posts in a dedicated “destaques” section on the homePage .

**US24** – As a Product Owner, I want the website to integrate with **Google Analytics** for global statistical analysis of the platform.

As a student I would like to submit a new for pending.

**Acceptance Criteria:**

Monitor every click on every Button of homePage:

**Sprint 4 Tests:**

**Sprint 5 Deployment + Documentation:**

**Non-Functional Requirements:**

**NF1:** The project should be developed using a Git version control system and boards to represent every issue/task — namely GitHub.

**NF2:** The website should support multiple languages; however, the default laguage should be English.  
**NF3:** The **frontend** should be mainly developed with the React framework or Next.js.  
**NF4:** The **backend** should be mainly developed with **Node.js** and **Express.  
NF5:** The **database** used to store data should be **MariaDB**, and if needed,MongoDB.  
**NF6:** The module used for authentication should be Firebase Auth or Auth0.

**NF7:** The files of the project should be stored in Firebase Storage or Amazon S3.

# 

# 6 Planning:

**The Project will have mainly 5 Sprints to be Implemented:**

**Sprint 1 (Design)**

**Duration: 2 Weeks**Sprint mainly conssist in collcting requirments and product design:

- Understand and specify Requirments  
 - Elaborate Domain model, status Machine, Backlog, Website WireFrames.

**Sprint 2 (FrontEnd):**

**Duration: 3 Weeks**

- Put Design into action and Develop a FrontEnd UI.

**Sprint 3: (BackEnd):**

**Duration: 8 Weeks**

Implement every Crud And Backoffice.

**Sprint 4: (Tests):**

**Duration: 2 Weeks**

**??**

**Sprint 5: (Deployment and Release):**

**Duration: 2 Weeks**

**??**

# 7 References:

To Do: