Planet Pulse Project Description:

Version 1.4

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1) 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**.

2) 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.

3) 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:

A. Promote the interest of young students in environmental sustainability.
B. 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".
C. 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, …).

4) Actors and Responsibilities

Product Owner: Main Client of Project.

Students: Responsible for publishing any adds/News, view challengens and possible participate on gamificaiton.

Professors: Responsible for aproving follow student's processes and accept/decline its News.

Validators: Responisble for validating all adds/News.

Admin: Responsible for website roles and permission. Also responsible responsible for

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.

5) Use Cases:

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 website wireframes to be delivered to support the design and implementation process.

Sprint 2 (FrontEnd)

US05 – 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**.*

Sprint 3

General Backoffice

US08 – *As a Product Owner, I want the web app to be able to register any user and assign them a role.*

Acceptance Criteria (related to US09):
1: Send confirmation emails with randomly generated confirmation/password or link

2: Roles added can be only Professor,Student ,Validator or admin.

US06 – As an Admin, I would like to see the admin platform dashboard.

US06 – As a student I would like to publish a new.

US07– As a Professor I would like to publish a new.

US07 – As a Professor, I would like to search or story by its author name on the search bar.

US10 – As a Product Owner, I want the web app to be able to register any user and assign them a role.

User Dashboard:

(Features):

US11 – As Validation Chief, I want to be able to submit an **update/request to add/update** number data or delete number data.

US12 – As an Admin, I want to accept or decline any validation data update on the user dashboard.

Web Design

US13 – As a Product Owner, I would like the web app to display a Contact us section.

Acceptance Criteria (related to US13):
Show : contact name:location of the company, and optionally phone/email. If not available, there is no physical contact.

US14 – As a Product Owner, I would like the web app <u>Home Page</u> to display a **Contact us FAQ Page/Label**

Acceptance Criteria : ??

US15 – As an Admin, I want to be able to delete any or all user's content on the user dashboard.

US16 – As a Product Owner, I would like a state machine to be developed to showcase all the possible states of the News on the System.

News:

US17 – As a Prodcut Owner, I want the Devolopers(s)of the Project to develeop and implement a Web App with **a private and public Area** that only admins and the validators can access.

Public Area:

US18 – As an Admin, I would like to see the dashboards of the private area of the website and manage public areas.

US19 – As a Product Owner, I want **the public area** to be indexed and display basic information about environmental sustainability and related news.

Private Area:

US20 – As an Admin, I want to be able to personalize the content of a private area of the website.

US21 – As a producto Owner, I would like the site to allow highlighting or pinning specific posts in a dedicated "destaques" section on the homePage .

US22 – 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
Sprint 5

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

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Sprint 4: (Tests):
Duration: 2 Weeks

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Sprint 5: (Deployment and Release):
Duration: 2 Weeks

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