project canvas

Project name GreenhouseLight-Heat

Project owner Vives

Purpose
What is the intent of this project?
Why are we doing this project?

Optimize the growth of plants by adjusting light and heat.

Scope
What does this project contain?
What does this project not contain?

Light and heat regulation.

Success Criteria
What do we need to achieve in order for the project to be successful?
How can the Success Criteria be measured?

A fully automated system that optimizes the growth of plants.

Milestones
When will we start the project and when is the final deadline ?
What are the key milestones and when will they occur?
How can the milestones be measured?

Sprint 1: Brainstorming, concept development. Drafting the architecture document, creating a small prototype. Finalize the architecture document, place orders. (3 weeks)
Sprint 2: Working prototype, refined architecture document, final approval. (3 weeks)
Sprint 3: Completed product or proof of concept, thorough documentation, user manual. (3 weeks)
Sprint 4: Product tested, presentation. (2 weeks)

Actions
Which activities need to be executed in order to reach a certain milestone?

- Research techniques for regulating heat and light.
- Look into how everything can be mounted or installed.
- Explore how to automate the entire system.
- Identify and order the necessary products.
- Document everything as thoroughly as possible.
- Build a prototype to identify where adjustments are needed.

A fully automated system that regulates temperature and light in the greenhouse.

Outcome
What is the end result?

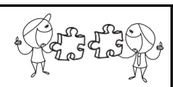
- A book
- A website
- An event

Team
Who are the team members?
What are their roles in the project?

Thibaut Schroyens (Project leader)
Sam De Wispeleare
Joren Vandewalle

Stakeholders
Who has an interest in the success of the project?
In what way are they involved in the project?

Vives



Users
Who will benefit from the outcome of the project?

Future students interested in learning about automating processes.

Resources
What resources do we need in the project?
- Physical (office, building, server)
- Financial (money)
- Human (time, knowledge)

LED lighting, sun-blocking fabric, 12 weeks of work, budget of 175 euros, positive team.

Constraints
What are the known limitations of the project?
- Physical (office, building, server)
- Financial (money)
- Human (time, knowledge, politics)

Money, time, large surfaces.

Risks
Which risks may occur during the project?
How do we treat these risks?

Humidity/wet environment combined with electrical components.

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