SolarAge

Vision

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# Introduction

# Positioning

## Problem Statement

[Provide a statement summarizing the problem being solved by this project. The following format may be used:]

|  |  |
| --- | --- |
| The problem of | [describe the problem]  Installing, Fetching data, Displaying and Maintenance for all customers and solar panels |
| affects | [the stakeholders affected by the problem]  End Consumer  Energy Provider Company |
| the impact of which is | [what is the impact of the problem?]  Easy management (control, maintenance …) |
| a successful solution would be | [list some key benefits of a successful solution]  Fully functional application (web + desktop) with dashboard and remote management |

## Product Position Statement

[Provide an overall statement summarizing, at the highest level, the unique position the product intends to fill in the marketplace. The following format may be used:]

|  |  |
| --- | --- |
| For | [target customer]  Energy Provider Company |
| Who | [statement of the need or opportunity]  Wants easy and effective solution for management and further services |
| The (product name) | is a [product category]  Application with remote solar panel management |
| That | [statement of key benefit; that is, the compelling reason to buy]  High cost-effective ratio = Cheap to install and maintain with early break-even revenue |
| Unlike | [primary competitive alternative]  PVcase |
| Our product | [statement of primary differentiation]  Gives more control over the solar panels with extended statistics and settings |

[A product position statement communicates the intent of the application and the importance of the project to all concerned personnel.]

# Stakeholder Descriptions

## Stakeholder Summary

| **Name** | **Description** | **Responsibilities** |
| --- | --- | --- |
| [Name the stakeholder type.] | [Briefly describe the stakeholder.] | [Summarize the stakeholder’s key responsibilities with regard to the system being developed; that is, their interest as a stakeholder. For example, this stakeholder:  ensures that the system will be maintainable  ensures that there will be a market demand for the product’s features  monitors the project’s progress  approves funding  and so forth] |
| Energy Provider Company | Company who installs and maintains solar panels functionality | Ensures the solar panel system is functioning 24/7 |
| Investor / Customer | End customer or investor who buys the solar panel system | Monitors the functionality and effectiveness of their solar panel system.  Manages where energy will be stored (at place or grid)  Funds the solar panel installation |
| Marketing Department | Department for promoting products to the public audience through ads, etc. | Ensures there is market demand for the product |

## User Environment

[Detail the working environment of the target user. Here are some suggestions:

Number of people involved in completing the task? Is this changing?

How long is a task cycle? Amount of time spent in each activity? Is this changing?

Any unique environmental constraints: mobile, outdoors, in-flight, and so on?

Which system platforms are in use today? Future platforms?

What other applications are in use? Does your application need to integrate with them?

This is where extracts from the Business Model could be included to outline the task and roles involved, and so on.]

Website application:

Graph visualization of the solar panel system with on-place batteries and national grid. Simple animation of the power flow (outdoors, indoors). Mobile-friendly. Will act as a “read-only” dashboard.

Fetching data from hardware sensors installed on panels (outdoors) and at the main substation (outdoors).

Desktop application:

Graph visualization of the solar panel system with on-place batteries and national grid. Simple animation of the power flow (outdoors, indoors). Settings panel for adjusting the power flow. Will be installed at the end customer on special computer at the main substation. Per request can be installed on any Windows 10 computer.

Fetching data from hardware sensors installed on panels (outdoors) and at the main substation (outdoors).

# Product Overview

## Needs and Features

[Avoid design. Keep feature descriptions at a general level. Focus on capabilities needed and why (not how) they should be implemented. Capture the stakeholder priority and planned release for each feature.]

|  |  |  |  |
| --- | --- | --- | --- |
| **Need** | **Priority** | **Features** | **Planned Release** |
| Fetching data from hardware sensors on solar panels | High | 24/7 connection to the hardware sensors | 24.10.2022 |
| Graph visualization of the panel system | High |  | 29.10.2022 |
| Animation of the power flow in the graph visualization | Low | Moving arrows indicating power flow from/to customer | 15.11.2022 |
| Mobile-friendly website application visuals | Medium | Clean and effective layout of the visualization for overview on mobile | 10.12.2022 |

# Other Product Requirements

[At a high level, list applicable standards, hardware, or platform requirements; performance requirements; and environmental requirements.

Define the quality ranges for performance, robustness, fault tolerance, usability, and similar characteristics that are not captured in the Feature Set.

Note any design constraints, external constraints, assumptions or other dependencies that, if changed, will alter the **Vision** document. For example, an assumption may state that a specific operating system will be available for the hardware designated for the software product. If the operating system is not available, the **Vision** document will need to change.

Define any specific documentation requirements, including user manuals, online help, installation, labeling, and packaging requirements.

Define the priority of these other product requirements. Include, if useful, attributes such as stability, benefit, effort, and risk.]

|  |  |  |
| --- | --- | --- |
| **Requirement** | **Priority** | **Planned Release** |
| Hardware sensors | High | 16.10.2022 |
| Desktop computer with Windows 10 | High | 14.10.2022 |
| Solar panels | High | 10.10.2022 |