Vision Document  
[SmartHome+ : A Smart Home Platform]

# Introduction

The purpose of this document is to outline a vision for SmartHome+ : A smart home platform. The document addresses the following:

* Identify and agree on the need for end users and determine features for the smart home platform.
* Gather and describe user requests for smart-home software platform features
* Propose new and alternative solutions
* Identify limitation and assumption for proposed solution
* Identify stakeholders and users
* Identify user environment

The scope of this document is limited to user needs, environment, and desired solution.

# Positioning

## Problem Statement

|  |  |
| --- | --- |
| The problem of | * Disconnected devices and appliances * Unmonitored home environment (temperature, air, and water quality) * Energy waste * Home security * Decentralized media and entertainment devices * Repetitive daily task |
| Affects | The home residents:   * Adult * Children * Senior members * Pets |
| The impact of which is | Making difficult for homeowners to manage, synchronize and monitor different daily activity. |
| A successful solution would be | Summation and harmonization of the following service through a centralized smart home platform:   * Accessibility (ease of use) * Environment Monitoring * Energy efficiency control * Security * Media and entertainment * Automation of various tasks |

## Product Position Statement

|  |  |
| --- | --- |
| For | Homeowners |
| Who | Is finding hard to manage, monitor and synchronized variety of devices and automating daily tasks |
| The [SmartHome+] | Smart home platform |
| That | Enables users to:   * Manage and sync their devices and appliances * Monitor home environment * Increase energy efficiency and save costs * Have security from intrusion and accidents * Sync and control various media and entertainment platform and devices * Automate daily tasks |
| Unlike | Other products in market that only provide a subset of features user need |
| Our product | Fulfills users need by integrating all the desirable features for a smart-home in a single platform |

# Stakeholder Descriptions

## Stakeholder Summary

|  |  |  |
| --- | --- | --- |
| Name | Description | Responsibilities |
| Smart Solutions inc | The owner of the project | * Monitors and manages the project * Finalizes different proposal * Approves budget * Provides feedback |
| Users | Homeowners who will be using the solution | * Provides feedback * Request features |
| Developers | The team responsible for eliciting requirements and develop features | * Requirement elicitation and analysis * Creating and maintain Software Requirement Specification (SRS) document * Developing the system |

## 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.]

# Product Overview

## Product Perspective

[This subsection of the **Vision** document puts the product in perspective to other related products and the user’s environment. If the product is independent and totally self-contained, state it here. If the product is a component of a larger system, then this subsection needs to relate how these systems interact and needs to identify the relevant interfaces between the systems. One easy way to display the major components of the larger system, interconnections, and external interfaces is with a block diagram.]

## Assumptions and Dependencies

[List each factor that affects the features stated in the **Vision** document. List assumptions 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.]

|  |  |
| --- | --- |
| Assumptions | Dependencies |
| *[state any assumptions]* |  |
|  |  |
|  |  |
|  |  |

## Needs and Features

*[Avoid design. Keep feature descriptions at a general level. Focus on capabilities needed and why (not how) they should be implemented.]*

|  |  |  |  |
| --- | --- | --- | --- |
| Need | Priority | Features | Planned Release |
| *[State a need]* | *[Set priority:*  *High, Normal, Low]* | *[Name the feature]* |  |

## Alternatives and Competition

[Identify alternatives the stakeholder perceives as available. These can include buying a competitor’s product, building a homegrown solution, or simply maintaining the status quo. List any known competitive choices that exist or may become available. Include the major strengths and weaknesses of each competitor as perceived by the stakeholder or end user.]

# 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, or other dependencies.

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.]