Version <1.0>

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Revision History

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| --- | --- | --- | --- |
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# Introduction

[The purpose of this document is to collect, analyze, and define high-level needs and features of the <<System Name>>. It focuses on the capabilities needed by the stakeholders and the target users, and **why** these needs exist. The details of how the <<System Name>> fulfills these needs are detailed in the use-case and supplementary specifications.]

[The introduction of the **Vision** document provides an overview of the entire document. It includes the purpose and references of this **Vision** document.]

# 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] |
| Affects | [the stakeholders affected by the problem] |
| the impact of which is | [what is the impact of the problem?] |
| a successful solution would be | [list some key benefits of a successful solution] |

## 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] |
| Who | [statement of the need or opportunity] |
| The (product name) | is a [product category] |
| That | [statement of key benefit; that is, the compelling reason to buy] |
| Unlike | [primary competitive alternative] |
| Our product | [statement of primary differentiation]  Differences between products and other competiors. |

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

# Stakeholder and User Descriptions

[To effectively provide products and services that meet your stakeholders’ and users' real needs it is necessary to identify and involve all of the stakeholders as part of the project. You must also identify the users of the system and ensure that the stakeholder community adequately represents them. This section provides a profile of the stakeholders and users involved in the project, and the key problems that they perceive to be addressed by the proposed solution. It does not describe their specific requests or requirements as these are captured in a separate stakeholder requests artifact. Instead, it provides the background and justification for why the requirements are needed.]

## Stakeholder Summary

[There are a number of stakeholders with an interest in the development and not all of them are end users. Present a summary list of these non-user stakeholders. (The users are summarized in section 3.2.)]

|  |  |  |
| --- | --- | --- |
| **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] |

## User Summary

[Present a summary list of all identified users.]

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Responsibilities** | **Stakeholder** |
| [Name the user type.] | [Briefly describe what they represent with respect to the system.] | [List the user’s key responsibilities with regard to the system being developed; for example:  captures details  produces reports  coordinates work  and so on] | [If the user is not directly represented, identify which stakeholder is responsible for representing the user’s interest.] |

## 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.]

## Summary of Key Stakeholder or User Needs

[List the key problems with existing solutions as perceived by the stakeholder or user. Clarify the following issues for each problem:

• What are the reasons for this problem?

• How is it solved now?

• What solutions does the stakeholder or user want?]

[It is important to understand the **relative** importance the stakeholder or user places on solving each problem. Ranking and cumulative voting techniques indicate problems that **must** be solved versus issues they would like addressed.

Fill in the following table—if using Rational RequisitePro to capture the Needs, this could be an extract or report from that tool.]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Need** | **Priority** | **Concerns** | **Current Solution** | **Proposed Solutions** | |
| Broadcast messages |  |  |  | |  |

## 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.]

# Product Features

|  |  |  |  |
| --- | --- | --- | --- |
| *No.* | *Feature* | *Description* | *Priority* |
| *1* | *Pet illustration* | *Users have a cute 3D model pet design to look after by feeding them bones or milk.*  *A pet can stick out tongue and wag tail.* | *High* |
| *2* | *Motion Sensor* | *In this game, users need to complete 3 missions daily by walking or moving in a certain distance which can be detected by our system.* | *High* |
| *3* | *Sharing on Facebook* | *When users complete an achievement or level up, a screen will be popped out for them to share on Facebook.* | *Medium* |
| *4* | *BGM/Sound* | *A sweet song is given on the background which users can reduce or increase the volume.* | *Medium* |
| *5* | *Achievement unlocked* | *A specific special achievement will be unlocked for the users to follow up their process.* | *High* |
| *6* | *Special quest/ pet wishes which contain google map api* | *Besides daily missions, special quest will be randomly appeared. For example, a pet wants to be taken to a certain position on map where the users will move to this place to get rewards. Some missions require users to walk with their friends via inviting them on Facebook.* | *Medium* |

]

# Non-Functional Requirements

**Applicable Standards**

The system must compatible with Android 6.0 Marshmallow API 23.0.0 or above.

Google map API is supplemented from API 11.0.0 or above.

**Platform Requirements**

The system can only be used on Android devices with gyroscope and GPS.

**Performance Requirements**

The game must smoothly illustrate the animation of pet in how many frame?

The system must be able to load all the data from below ? seconds.

The delaying time when measuring distance or counting steps must below 10 seconds.

**Environmental Requirements**

The system shall be used out-door since some missions need to use GPS.