SleepingBeauty

Problem Statement in Vision Document

Version <1.0>

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# Introduction

The purpose of this document is to give an overview of the high-level needs and features of our project, Sleeping Beauty. It concentrates on necessary capabilites required by the stakeholders, and the target user, and why does these demands exist.

# Positioning

## Problem Statement

|  |  |
| --- | --- |
| The problem of | Going to bed late and waking up early in the morning as well as procrastination. |
| Affects | People who have a bad sleeping habit especially teenagers and workers. |
| the impact of which is | Reduce the work productivity; increase the risk of health problem like obesity, stress, depression… |
| a successful solution would be | To create interesting methods to help end-user keep track the sleeping and waking up time habit, which is not a normal alarm o’lock but an alarm o’clock attached with special feature. |

|  |  |
| --- | --- |
| The problem of | Difficult of getting in to sleep |
| Affects | People who have stress or using smart phone during bed time especially teenagers and workers. |
| the impact of which is | Reduce the work productivity; increase the risk of health problem like stres, depression… |
| a successful solution would be | Playing a relaxing music during bed time as well as sheeping counting video. |

## Product Position Statement

|  |  |
| --- | --- |
| For | Everyone, students, workers |
| Who | Want to maintain a good sleeping habit and enhance their health  Want to manipulate their working time better |
| Sleeping Beauty | is a mobile application |
| That | That forces the user to wake up by strong methods as well as keep track user sleeping habit. |
| Unlike | Any common alarm clock |
| Our product | Not only make an alarm clock to be more interesting with different outstanding method but also help get into sleep faster. |

# Stakeholder and User Descriptions

## Stakeholder Summary

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Responsibilities** |
| Teenager-Worker | Part of main user group who | Get used to UI design to help a better experience usage. Set up new alarming time and choose sleeping music. Evaluate on features, contents, usability and quality. |

## User Summary

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Responsibilities** | **Stakeholder** |
| Teenager-Worker | Set up new alarming time and choose sleeping music | Evaluate on features, contents, usability and quality. | Self-represented |

## User Environment

Users will be expected to have a device capable of displaying the UI. The device is required to capable of viewing video and audio clips which will also be availabe to the user.

## Summary of Key Stakeholder or User Needs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Need** | **Priority** | **Concerns** | **Current Solution** | **Proposed Solutions** | |
| Alarm on time even with several added alarm clock | High | None | Create a list of alarm o clock | | Create a list of different alarm clock displaying time |
| The alarm off methods work exactly and effectively | High | Irritate user/ smart phone broken | Depends on user favorite. | | Provide a preview for user before setting up methods |
| Use as little battery as possible | High | cost battery while running in background | none | | Better code implementation |
| Sleeping music time stops after a period | High | User still not sleep when music stop/ wasting battery if it played too long | Set the duration of music about 2 hours | | Find how long user needs to fall asleep. |
| Sharing sleeping habit history graph | Medium | None | None | | Provide a line graph of sleeping habit in a month. |

## Alternatives and Competition

It is observable that there exist many products for monitoring and revising sleeping habit.

Application like “Alarmy” does support different methods in setting up alarm clock. However, it does not care about whether the users can fall as sleep on time or not as well as how easy/diffcult it is for user to sleep.

In contrast, “Sleep sounds” application helps user to choose a variety of sounds during sleeping time. However this application does not work as an alarm clock.

To our perception, the above competitors have not delivered the complete solution.

# Product Features

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Feature | Description | Priority |
| 1 | Set up Alarm Clock | Users have an ability to create, modify alarm time as well as set up the different alarm off method | High |
| 2 | Music/Audio sleeping helper | Users can choose a relaxing music to help them fall as sleep faster. | High |
| 3 | Sharing on Facebook | Users can choose to share their history graph on facebook | Medium |
| 4 | Drawing history graph | A graph which recorded the sleeping habit of users | High |
| 5 | Settings | Different methods are supported for example: gradually increase volume, change theme which help user enhance usage experience | Medium |

# Non-Functional Requirements

**Applicable Standards**

The smart phone must capable of playing videos and audios (supporing Android 6.0 or above)

**Performance Requirements**

The system must be able to handle different alarm off method exactly.

The number of shakes needed for an alarm off method must be counted exactly in the system.

**Environmental Requirements**

The capturing image alarm off method suggest the setting up image should be far away from bed.

The volume is increased big enough to wake up the user.