Vision Document

Version 1.0

Revision History

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Vision (Small Project)

# Introduction

This document is to collect, analyze, and define high-level needs and features of the Calorize. It focuses on the capabilities needed by the stakeholders and the target users, and help people have a wider range about the necessary it brings.

The details of how the Calorize fulfills these needs are detailed in the use-case and supplementary specifications.

# Positioning

## Problem Statement

|  |  |
| --- | --- |
| The problem of | Overweight and other health issues by sitting regularly |
| affects | Students, office workers, streamer… |
| the impact of which is | Type 2 diabetes, strokes, high blood pressure |
| a successful solution would be | Preserving, keeping track of food consumption per day |

## Product Position Statement

|  |  |
| --- | --- |
| For | Students in HCMUS |
| Who | Is trying to gain a better health |
| The Calorize | is a healthcare application |
| That | Free-to-use, has a lot of functions in advance |
| Unlike | Other applications which have pay-to-use and not stable |
| Our product | Will bring a breath of fresh air in healthcare services |

# Stakeholder and User Descriptions

## Stakeholder Summary

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Responsibilities** |
| Developers | Team members in general who work directly with the software, including implementers, designers, testers. | Responsible for designing, implementing and testing the code. |
| Business analyst | Who has a good knowledge of business. | Make sure the requirements specification and business use cases closely match customers’ needs. |
| Lecturer | The lecturer guiding the team members throughout the project. | Give opinions on the ideas around the project and on the team’s software process. |
| Project manager | Project manager of the team. | Make plans and resolve any problems in the team. |
| Advertiser | Organizations who pay to place its advertisements on the software. | Determine target customers and provide relevant advertisements. |

## User Summary

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Responsibilities** | **Stakeholder** |
| Students | Students in universities, colleges, who wants to gain fitness. | Login, update daily intake of calories, update self photos. | Self-represented. |

## User Environment

## Summary of Key Stakeholder or User Needs

* Fill in the following table—if using Rational RequisitePro to capture the Needs, this could be an extract or report from that tool.] Three main diets: Breakfast, Lunch and Dinner.
* There is no environment contraints of using: People can use this app flexibly on a cell phone everywhere as at home, school, university, in-flights, gym office, …public places that people want to track their weight loss/gain progress.
* Other application: facebook API for logging in to share their progess.
* No bussiness model: The application will be submitted for Teaching Assistant.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Need** | **Priority** | **Concerns** | **Current Solution** | **Proposed Solutions** | |
| Easy to choose food for calculating calories. | High | It is a general sight about food and information of food to choose easily. | Users have to find out information of each food how much calorie food has. | | Store some information of food in a database to query calories of each food when users chooses to calculate calories per day. |
| Convert food to calories exactly. | High | Does it have any mistakes about calories of food? | Users need to estimate their calories of each food or searching information. | | Try to study enough recipes or equations to calculating calories of food exactly. |
| Fast to find the best diet (enough calories). | High | It must reply quickly to users about the diet. | Users have to list out calories of each food to find the best diet on this day. | | Hint some best diet (enough calories) in each meal with listing out food relatively. |
| Record a data of diets each day. | High | There is a clear progress of food calories. | Users must remember their progress how much calories they gain each day. | | Their progress will be recorded in a database to help users revise their diets each day. |
| Friendly user interface. | High | It is easy to use with including technophobes. | Users try to use the application many times to acquaint abilities. | | Provide a large menu icon with image about foods. There are many edit boxes which help users input easily their food or calories. |
| Give many exercises which are easy to do at school. | High | Some exercises from easy level to hard level. | Users try to do some exercises from the Internet but they might not be right to help them fit their weight. | | Give users some exercises assessed from their calories they got. |
| Share daily results to Facebook. | Low | Are users always happy with their progress chose? | Users share their progress to your friends unclearly because they have no evidences about calories of their diet. | | App will capture a screenshot about their progress with following details. |

## Alternatives and Competition

* Purchase many copyrights exercies from physical education organizations.
* Pay 25$ to up Calorize app to Google Store.
* Competing team:

# Product Features

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Feature | Description | Priority |
| 1 | Signup with Facebook | If the user uses the app for first time, they will task to sign up and login with their Facebook accounts.  They are also asked to give some information including weight, height for the app to compute calories they need | High |
| 2 | Convert food to calories | Predefined a fixed amount of calories for each type of food.  Let the users choose the food and the unit of food they consume in the most convenient way.  The app is also able to display the total amount of calories each day and the amount of calories based on the food they choose and relative input | High |
| 3 | Inform users when they don’t follow the schedule correctly | Based on the information from user profile, calculate the amount of calories that they should take per meal  Track the calories that they already took and compared to calories the system suggests to inform them whether they reach sufficient calories. | Medium |
| 4 | Recommend exercise | List a handful of exercises and the amount of burnt calories for each type of exercises | Low |
| 5 | Edit food | Allow the user to remove or change the food that they choose earlier | High |
| 6 | Show progress | Display the histogram including the calories they take daily in a period of time ( week, month)  Display detail information of two selected days for comparison, including weight, height, calories intake, pictures (optional) | High |
| 7 | List of Food information | Display the information of each type of food, including calories, protein, …  Allow the users to search for the food | High |
| 8 | Share to Facebook | Allow the users to share their daily results to Facebook including the calories intake and picture(optional) | Medium |

# Non-Functional Requirements

* + Platform requirements: Android minimum target API level 5.0
  + Performance: Consume sensible memory (~ 200mb), instant user response (< 100ms)
  + Usability: UI design according to Material Design standard, Advanced Searching for Food algorithm
  + Availability: List of Food Information along with Images is stored online and make sure that users can query it anytime (quality according to the external services)
  + Reliability: User requests are handled correctly (100% success)
  + Robustness: Guarantee that the app behaves the same for different type of users and environment
  + Maintainability: Architecture is well-design, Code is well-written for well-understanding between developers.
  + Security: User Profile is Secured 100%