Your E-Care

Vision Document

Version 1.0

Revision History

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Vision (Small Project)

# Introduction

* 1. **Purpose**

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

* 1. **Scope**

This vision document applies to *Your E-care* app, which will be developed by Group 01. We will develop the app to work on the Android platform. *Your E-care* will provide people a suitable way to lose weight or keep fit.

## References

# Positioning

## Problem Statement

| The problem of | toddlers, children, teens, and families do not know how to lose weight or keep fit |
| --- | --- |
| affects | people with unhealthy lifestyle or bad overall health |
| the impact of which is | lack of desire to keep fit and difficulty in finding suitable program |
| a successful solution would be | a simple, mobile application with a low learning curve that can be easily used by everyone. The product would provide a creative and enthusiastic approach for superior health, movement, and fun. Furthermore, the product would also support efficient means of having a unique atmosphere to enhance movement development through fitness and gymnastics. |

## Product Position Statement

| For | everyone who wants to keep fit or enhance overall health. |
| --- | --- |
| Who | do not know how to do it. |
| The Your E-Care | is a software application |
| That | provides an approach and solutions for improving health. |
| Unlike | other fitness applications that do not have effective education for trainees. |
| Our product | provides a quality program that has been researched to optimize individual movement abilities and goals. This is accomplished by an AI coach and other features. |

# 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 Requirements Modeling process. 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** |
| --- | --- | --- |
| Requirements Engineers | This stakeholder works with customers and stakeholders to translate needs into requirements. | Specifies domain, non-functional, and functional requirements. Refines requirements as needed. |
| Software Architect | This stakeholder is a primary lead in the development of Your E-care | Responsible for overall architecture of the system, and guides overall design and implementation of system |
| Project Manager | This stakeholder leads development of the HCPA. | Plans, manages and allocates resources, decides priorities, coordinates interactions with customers and users, and keeps the project team focused. |

## User Summary

| **Name** | **Description** | **Responsibilities** | **Stakeholder** |
| --- | --- | --- | --- |
| Normal People (children, teenagers, adults..) | Primary End user of the system | Use an application to keep fit. | Self |
| Assistive People (therapist, coach…) | End user of the system | Configure application for the Primary End users. Communicate with the Primary End users by the app. | Self |

## User Environment

1. *Your E-care* will be used by people, regardless of age, with normal health and heath problem as defined below:
   1. Normal health: has a healthy lifestyle.
   2. Health problem: obesity, degeneration
2. *Your E-care* should use in different places:
   1. In a home
   2. In a hospital/nursing-home setting
   3. In a park/stadium/classroom….
3. Users can choose from a variety of lessons:
   1. Cardio
   2. Pilates
   3. Optional therapies
   4. Fitness
   5. Physical exercises
4. Assistive persons should not need to use this app
5. The system allows assistive persons to communicate with trainee:
   1. Trainees should request an action of the assistive person using this app
   2. The user should be in conversation with an assistive person

## Summary of Key Stakeholder or User Needs

| **Need** | **Priority** | **Concerns** | **Current Solution** | **Proposed Solutions** | |
| --- | --- | --- | --- | --- | --- |
| **Needs** | **Priority** | **Concerns** | **Current Solution** | | **Proposed Solutions** |
| Easy to use | High | Ability for users with little to no previous phone usage to navigate and use menu easily | See proposed | | Provide large menu icons with intuitive categories for communication |
| Flexible (configurable) | Low | Ability to customize menu and functions based on different user needs | See proposed | | Allow *Your E-care* to be configured on initial running to allow users to choose needed functions and menu layout |
| Send messages | Medium | Messages should be in time | None | | Having optional communicating approach such as email, social network |
| Recommending suitable courses | Medium | Unsuitable or wrong courses are chosen | None | | Using AI to choose from individual input survey |
| Rating | Low | Ability to customize menu and functions based on different user needs | None | | Using API to collect ratings |

## 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.]*

* Strava
* Adidas Training: HIIT Workouts

# Product Overview

This section provides a high level view of the health care capabilities, interfaces to course catalog database system, and system configurations. This section usually consists of two subsections, as follows:

• Product perspective

• Assumptions and dependencies

## 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

• The product will be used on a mobile operating system.

• If there are changes in the development process, the vision document needs to be updated with this information.

• This product is expected to be used in the next 5 to 10 years and frequently updated during this period.

# Product Features

This section provides what features are needed in our system, feature description at a general level, why we choose to implement it and the level of priority for each feature we have.

| No. | Feature | Type of user | Description | Priority |
| --- | --- | --- | --- | --- |
| 1 | Post exercises | Admin | Admin can post exercises by the time | High |
| 2 | Suggest in a series of exercises | Admin | Admin put the exercise into the series of relations. | Medium |
| 3 | Suggest in each muscle group | Admin | Admin separate the exercise into different groups | Medium |
| 4 | Remind user to practice | Admin | Admin set the system to remind user comeback to practice | Low |
| 5 | View the rates and comments of exercises | User | Users can view the total rates and comments | Low |
| 6 | Register to practice the exercises | User | Users can register the course they want | High |
| 7 | View the profile. | User | Users can see their information and registered course | Medium |
| 8 | Rate and comment about the exercises. | User | Users can comment and rate the exercise so that others can refer. | Low |
| 9 | View the exercises. (Calories estimation, Duration) | User | Users can see the overview of each exercise. | Medium |
| 10 | Sign up / Sign in the account | User | Each user has their own account so as to manage themselves. | Medium |
| 11 | Record process of exercises | User | Each user can submit their own process | Low |
| 12 | Create custom alarm | User | Each user can customize their alarm | Medium |

# Non-Functional Requirements

**Applicable Standards:**

The mobile user interface shall be Android operating system.

**System Requirements:**

The client component of the system shall operate on any personal mobile phone with x64 ARM Microprocessor or better.

The client component of the system shall not require more than 1024MB RAM and 50-80 MB Disk Space.

The client component of the system shall run on Android 10.0 or over.

**Performance Requirements:**

The system shall support up to 200 simultaneous users in each half an hour against the local servers.

**Security Requirements:**

User password put into hash table so that user profile is protected.