**MINISTRY OF EDUCATION AND TRAINING**



**FPT UNIVERSITY**

Capstone Project Document

**Health Support Tracking System**

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| **Capstone Project code** | HSTS |

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# Definitions, Acronyms, and Abbreviations

# Introduction

## Project Information

- Project name: **Health Support Tracking System**

- Project Code: **HSTS**

- Product Type: **Mobile Application, Website**

- Start Date: **September 07th, 2015**

- End Date:

## Introduction

In modern society, the people worry about their health. The fat is the most important problems. The doctor diagnose the patient with medicine and exercises. However, the patient uses medicine without exercises that cause problem in effective treatment. Besides, some patient with heart disease or asthma needs tracking his/her status for suitable treatment.

## Current Situation

Some applications already on the market:

* S Health developed by Samsung for their phones so and sensors are integrated san. Health-Tracker enables health monitoring of height, weight, activity level...
* The current limitations of the current health app is the lack of participation of doctors, only work with only one type of bracelets. The app that merely record the activity of a people and no one treatment regimen for patients in a particular disease...

## Problem Definition

Below are the advantages and disadvantages of current health application in Android store and website in Vietnam:

* Advantages:
  + Easy and fast data entry and edit, making it a breeze to enter all your key data on a day-to-day basis.
  + A complete health data tracker, for monitoring your Glucose, Weight, and body sizes.
* Disadvantages:
  + The lack of participation of doctors.
  + Only work with only one type of bracelets.
  + Cannot suggestion the treatment or exercises.
  + Cannot notify to doctor, patients.

## Proposed Solution

The application uses a combining of a smart phone with a wristband device to collection the patient’s daily information. Base on collected information, the doctor make the treatment decision within system suggestion. The patient can use mobile function in online and offline modes, but they will have some policies to keep using online, such as sending treatment daily result and receiving notification, new treatment plan.

### Feature functions

* The nurse can create basic information about patient.
* The doctor can make accept treatment decision or not.
* The patient can connect their smartphone with the wristband device.
* The patient can receive treatment plan, notification from doctor by smartphone device.
* The patient can confirm the treatment daily result.
* The doctor can review the collected information, and make change to the treatment plan.
* The doctor can make the next medical examination schedule.

### Advantages and disadvantages

* Advantages: Provide doctor tracking information to make treatment plan more effective. The patient also have more communication with doctor.
* Disadvantages: The doctor must have laptop and internet connection to access tracking information. The patient must have suitable smartphone with wristband device, and also must have internet connection to sending information, receiving treatment plan. Besides that, if patient does not use application regularly, the treatment information may be out-of-date.

## Functional Requirements

Function requirements of the system are listed as below:

### Connect with wristband and setup device.

* User can buy wristband and pair device with smartphone.

### Create a patient profile in system.

* Doctor accept treatment for patient and nurse input information of patient to system

### Get information of wristband and save in smartphone, system.

* Application on smartphone can get information of wristband save in local and sys with system when smartphone have network.

### Suggest Regiment of patient to doctor.

* System collect data of patients and compare with regiment of disease to suggest regiment with doctor.

### System send regiment to patient.

* Doctor accept regiment.
* System send regiment and notification to patient.

### Application support to remind implement regiment.

* Remind use medicine, do exercise.

### Suggest exercise in system.

* Suggest exercises had exist in system to with intensity high or low.

### Manage regiment of disease.

* Add new regiment and new disease.
* Update regiment of disease.

## Role and Responsibility

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| --- | --- | --- | --- | --- |
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Table 1 Roles and Responsibility