

MINISTRY OF EDUCATION

AND TRAINING

FPT UNIVERSITY

CAPSTONE PROJECT DOCUMENT

HEALTH\_PLUS

Report #1 – Introduction

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|  | HEALTH\_PLUS |
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| Project Code | HP\_1 |

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# INTRODUCTION

## Purpose

This document is the introduction of Project Name (Project Code) Project – our Capstone Project in FPT University. It is included the overview of some existing systems, the initial idea of this project, a brief description about our expected system and some potential risks, critical assumptions, constraints, also some benefits for our group and iPad’s users.

## Acronyms and definitions

|  |  |  |
| --- | --- | --- |
| Acronym &  Abbreviation | Definition | Note |
| Web app | Web application |  |

Table 1-1: Acronyms and definitions

# ABSTRACT

Medicine is, a very important science in our lives, continuous improvement and non-stop development. With the recent development of many medical technology and medical services, everyone can be get the best care at the hospital or clinic.

However, queuing for their turn to get treated with these technologies is a big problem that hospital or clinic always face. Everyone wants the best treatments but not everyone get it at the time they need.

Figuring out the above aspect, our team has come up with the idea of developing a website application in which people can create medical​ examination schedule online. This also comes with additional helpful features for example viewing information of doctor, nurse, create medical records, to improve medical treatments at hospital and clinic... We call it “ABC”.

# LITERATURE REVIEW

My web application that support users to create medical examination schedule online, view information of doctor, nurse, create and view medical records, receive many knowledge about take care of yourself (how to use medicine, recognize simple disease and how to cure…)

# PROPOSAL

## The idea

The idea of creating a medical examination schedule online already exist and have some web applications now. However, our website build interface that users can use website easily, always update new information for medical healing book and share many tips to help user cure family and themselves when they meet emergency situation.

## Objectives

This project is the Capstone Project for all team members. Firstly, we do this project to fulfil the requirements from FPT University studying program. But more importantly, during this time, we will learn essentials of project developments and the skills involve in the process.

We also will work with some new technologies revolve around develop web application which is necessary for our future work after graduating from FPT University.

The most important objective is to create a better medical treatment experience for the patients at hospitals and clinics with our online booking medical examination system.

## System features

About the feature of web application, there are four roles of this web app: User, doctor, nurse, receptionist.

Main features:

1. **User**
   1. Medical examination online

List all of doctors, user can view information of doctor (level, specialize, feedback…). When user chooses the doctor, system will calculate free time of doctor and user can choose appropriate time to meet the doctor and respective medical service pack. After 48 hours since at scheduled, if doctor agree to examination, a code will be send to user. User go to hospital follow the examination schedule, putting code to receptionist, pay and receive medical bill to examination.

1.2 Medical dictionary

User can search medical follow name, faculty, price.

1.3 Q&A, feedback

All requires, feedbacks user can send directly to admin (quality scale, comment about doctor, attitude, doctor quality…)

1.4 Topic, information about health.

Create topic, news, information involve about health so all member can discuss and share their experience.

1.5 View information of medical record, medical history

View information of medical record, medical history. After examination, doctor will create a prescription online and inform to patient.

**2. Nurse**

2.1 Create medical examination record for patient depend on examination result.

2.3 Manage drugstores, create news, information, topic for discuss about medical knowledge and feedback about doctor, overall quality.

**3. Receptionist**

3.1 View list of examination schedule, examination history, medical bill, service package price.

3.2 Support user with all information about hospital, clinic.

3.3 Create timeline (medical calendar) for doctor.

3.4 Create a medical examination from the patients.

3.5 Create an account for the patients.

**4. Doctor**

4.1 Review medical records.

4.2 Review patient’s appointment.

**5. Admin**

5.1 Create account: Doctor, Nurse, Receptionist.

5.2 Create medical examination service.

# BENEFIT FROM PROJECT

Benefit:

When the project is completed project, there are several benefits:

For our team:

• We would have an idea of how a project in a company. The experience will definitely prove to be useful for our future.

• Working in a team means we would know certain pros and cons of it and learn to adapt with each members to make teamwork more efficient.

• A chance to explore different technologies and especially the vast knowledge of PROJECT NAME.

For users:

• Patients will be more comfortable when they can choose a suitable doctors and schedules

• Doctors and nurses will not need to set up the schedules themselves. No possible overlap schedules will improve the quality of check ups.

• Before any check ups, both doctors and patients will have essentials information about each other will make the interaction between parties very clear cut, to the point and save time.

# 6 CRITICAL ASSUMPTION AND CONSTRAINTS

First and foremost, our aim to is to get familiar with the project development cycle, starting with the analysing and requirements phase, we will learn the methods for us to form questions to not only get the immediate requirements from our client but also to clear any immediate issues which would make the planning phase easier.

In planning phase, we will learn how to brainstorm and the methods to organise our ideas, and from there produce a detailed plan with tasks being broken down to smaller manageable chunks and assigned to members.

In implementing phase, we will get familiar with coding techniques, best practices, and current development environment, programming languages and library for example: C#, SQL, CSS, HTML…. We will learn to test by means of writing test cases and test the applications thoroughly to ensure the quality of the application.

All of the skills mentioned above are essential for us when we graduate and stepping into a real working environment.

Secondly, we think that this project is realistic and potentially useful for our users. Our patients could easily get access to important information to choose the right doctors for them and arrange the best schedules. This would decrease immensely the time the patients have to wait for doctors at hospitals and clinics. Apart from that, our application will provide knowledge on symptoms, preliminary examination so that the patient will have the best information beforehand when meeting with the doctors.

# 7 POTENTIAL RISKS

After analyzing this project, we may be facing some risks:

• We all lack the experience in both project managing and all the technologies mentioned, but this also presents itself as a chance for us to study and research to improve our knowledge in these 2 areas.

• The members in our team is assembled at random, it is a challenge to work with people when you do not know them well. It will take time to adapt with each other, learn the goods and put away differences and come to decisions. This, we believe, will also be the risk at a real work place therefor this is also a good practice for us.

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