



# **CAPSTONE PROJECT REPORT**

## **Report 1 – Project Introduction**

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# I. Project Introduction

## 1. Overview

### 1.1. Project Information

- Project name: Application to support mother and baby care
- Vietnamese name: Ứng dụng hỗ trợ thông tin chăm sóc mẹ và bé - Mumbi.
- Project code: SU21SE09.
- Group code: GSU21SE44.
- Software type: Mobile Application, Web Application.

### 1.2. Project Team

#### 1.2.1. Supervisors

Full Name	Email	Phone Number	Title
Vũ Thị Thùy Dương	duongvtt9@fe.edu.vn	0986550927	Lecturer

Table 2- Supervisors

#### 1.2.2. Team Members

Full Name	Email	Phone Number	Role
Phạm Hoàng Duy	duyphse130096@fpt.edu.vn	0768372329	Leader
Thân Quốc Bình	binhtqse130088@fpt.edu.vn	0768048769	Member
Bùi Hải Nam	nambhse130124@fpt.edu.vn	0834091456	Member
Đỗ Lê Tú Uyên	uyendltse62551@fpt.edu.vn	0364472908	Member

Table 3 - Team Members

## 2. Product Background

Nowadays, the population is increasing dramatically and with the development of the internet, mothers have to spend a lot of time on the internet looking for child care guides, but there are hundreds of articles. It is really difficult to select a reliable article.

To solve these problems, we have developed our application called Mumbi, Mumbi is an application where mothers can monitor their baby's health status according to a graph drawn by self-entered data (including ages, health index, activities, ...). Moreover, monitoring stages of teething and vaccination are two important concerns that Mumbi will support and provide trusty information to avoid mothers' confusion. Finally, based on the diary feature, mothers can share their baby's first milestones and then exchange, learn new tips from other mothers from the miniature community of Mumbi.

### **3. Existing Systems**

#### **3.1. Traditional method**

When the mother and baby go to the doctor, the medical examination book will be used to keep track of their health during and after pregnancy. This is problematic since the book can easily be misplaced, resulting in a lack of necessary information and wasted time.

#### **Pros**

- Parents do not need the internet or smartphone to keep information.

#### **Cons**

- Handwriting of a doctor may be hard to read.
- Parents find it hard to follow and keep track of a baby's development through each stage.
- Parents will lose data on their children.
- Parents cannot communicate with doctors when their baby has a bad reaction to the medicine after the injection.

### **4. Business Opportunity**

The quality of life has increased in recent years, and women now desire an app that can track all of their baby's information in detail, both during and after pregnancy.

Such as in the stage of pregnancy, what period they are in, pregnancy health and useful suggestions for that time.

An application where they can interact with people who have experience in taking care of young children, sharing their baby's memorable moments. In addition, they can track the child's immunization status, as well as read news and handbooks that will help parents learn more about education and assist the child develop optimally.

### **5. Software Product Vision**

The application includes web application and mobile application. Web application is for employees, they do some professional tasks such as updating daily news, creating parenting guides, managing users, as well as approving posts.

Mobile app is aimed at mothers. They can update their baby's health data, their pregnancy status and finally build a family tree. Then this mobile application is considered as a useful handbook for mothers when it has practical features such as diary function, observing teething process. Particularly, they can view the vaccines on the list of recommended vaccinations, vaccination schedule and information to know after vaccination.

### **6. Project Scope & Limitations**

#### **6.1. Major Features**

Reference to [Mumbi UserStory](#)

## **6.2. Limitations & Exclusions**

LI-1: Twins, triplets are still our problems

LI-2: The system doesn't support offline activities (contest for children, nutrition consulting, seminar).

LI-3: Buying and selling activities are beyond our (old furniture, baby items).

LI-4: Accumulating personal points is not supported by our system.