
Calin-Lucian Piroasca
30432

Child Health Tracking
Vision

Version 1.0

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Project_Vision.pdf	

Revision History

Date	Version	Description	Author
20/03/2019	1.0	Initial Project Statement	Calin-Lucian Piroasca

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1. Introduction

First-time parents are always having a rough time and although more and more information is available free of charge on the internet it might be troublesome for first-time parents to decide which source is truly reliable and which is not. What are the signs that should worry them? What should you do if something happens? What should you do if something does not happen? The current document will present a solution that should guide the parents of new born babies through such a difficult and worrisome time.

1.1 Purpose

The purpose of the Child Health Tracking application is to guide the first – time parents through the first 24 months of their new born baby. The application's aim is to connect parents and reliable information documented by licensed pediatricians. Everything will be in one place : medical investigations (when should a vaccine occur), development (when are the first steps expected), general information. Furthermore, the parents will have the option to have a video call with a pediatrician or even request a visit at home of a nearby pediatrician.

1.2 Scope

The application will have the following features :

- User Authentication (Create account + Login)
- Add a new child and birth measurements (height and weight)
- Add new height and weight measurements for the chosen child
- Compare current height and weight with the WHO Child Growth Standards
- See the history of height and weight
- Delete a height or weight measurement
- See a list of medical investigations (optional and mandatory) and development guides. (e.g. at 2 months vaccine 'x' should occur, at 5 months the baby should do 'y' thing)
- Have the ability to record when a medical investigation has taken place.
- Have the ability to see a detailed description of each development step (e.g. when should the baby talk, what does it mean if it's too early, if it's too late, should the parent worry or not)
- If a medical investigation that is marked as mandatory is overdue and it hasn't been checked yet the parent will be warned through e-mail.
- Subscribe to a nearby pediatrician in order to ask for advices.
- Request an at home visit of the pediatrician the parent is subscribed to.

The following services are out of the scope of this project and will be provided by other systems:

- The WHO Child Growth Standards to consider when comparing heights and weights (3% - 15% - 50% - 85% - 97%)
- Payment provider and subscription options

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1.3 Definitions, Acronyms, and Abbreviations

Term	Definition
Medical Investigation	An x-ray, vaccine or any other mandatory or optional visit to the hospital that should facilitate a healthy and stable growth and also foreseeing any issues that might appear.
WHO Child Growth Standards	https://www.who.int/childgrowth/standards/weight_for_age/en/ https://www.who.int/childgrowth/standards/height_for_age/en/
Pediatrician	A licensed person that has graduated a medical university over the course of multiple years, specializing in pediatrics.

1.4 References

For further clarifications see the following resources:

- Project_UseCaseModel_MedicalInvestigation
- Project_UseCaseModel_AddChildren
- Project_SupplementarySpecification

1.5 Overview

The upcoming sections of the document will describe the application positioning in the market, relative to other child health tracking applications. We will then continue by describing the involved stakeholders, the end users, the end user environment and the product hardware and software requirements.

1.6 Problem Statement

The problem of	Searching reliable information on the internet regarding a new born baby
affects	First – time parents.
the impact of which is	Worried parents, endless queues at the emergency room when there should be no worries. Parents considering wrong information / advices.
a successful solution would be	To create an application that presents everything that a first-time parent should know about his new born baby.

1.7 Product Position Statement

For	National Institute of Pediatricians
Who	Needs to provide information to parents without them having to wait on endless queues for basic information
The (product name)	Is a Health Tracking System.
That	Stores medical investigation and development guides and when should one occur(in months since birth).
Unlike	Long queues at emergency rooms or unreliable information found online.
Our product	<ul style="list-style-type: none"> • Provides trustworthy information having licensed pediatricians as sources • Allows parents to track the development and medical

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	<p>history of their new born baby</p> <ul style="list-style-type: none"> • Allow parents to keep track of weight and height history of the baby • Get in touch with nearby pediatricians
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2. Stakeholder and User Descriptions

2.1 Stakeholder Summary

Name	Description	Responsibilities
Director of National Institute of Pediatricians	Elected based on his/her contribution to the medical society. Is interested in providing reliable information to the newborn babies and prevent queues at emergency rooms	Approves funding
Doctors	The stakeholders currently dealing with parents waiting in line either at emergency rooms or local hospitals	Provide documents for medical investigations, guides and standards.
System Administrator	The person in charge with maintaining the system after implementation	Ensures system integrates with other systems from the town hall. Ensures system is maintainable. Provides valid data to the system database
Implementation Team	The team developing the project.	Provide a clean implementation with minimum effort.

2.2 User Summary

Name	Description	Responsibilities	Stakeholder
Parent	The parent of a new born baby worried about what should be the next step and what are the warning signs.	Add new baby and periodically add measurements and mark and medical investigation that has occurred.	He is a direct user
Pediatricians	The person that knows what should be done and when should that be done.	Provides standards to be used in application. Provides documents for medical investigations and development guides Provides support to parents through the application.	He is a direct user

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2.3 User Environment

Parent

The citizen is considered to submit requests from his personal computer or mobile device at home or on the move, in either a non-stressful and calm environment or in an emergency situation.

Pediatrician

The pediatrician is considered to work from an office in the hospital or at home. He may be interrupted by many other people at any given moment and could be stressed. For this reason, the system must provide him a workflow that supports interruptions.

3. Product Requirements

For the parent, the application requires a stable internet connection, either a computer or a mobile device with a browser installed and peripheral devices (mouse and keyboard or touchscreen and on-screen keyboard).