

MINI PROJECT – IS2106

(Requirements Garthering Specification)



VacciCare – Family Vaccination Management System

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Introduction

1.1 Overview

The vaccination management project aims to develop a mobile application to streamline the management of vaccination records for families and pets in Sri Lanka. With manual record-keeping currently posing challenges such as data inaccuracy and difficulty in retrieval, this app intends to improve public health outcomes by ensuring timely vaccinations. The objectives include providing automated notifications, user registration, secure data access, educational resources, and pet vaccination management.

1.2 Purpose and Scope of the SRS Document

The purpose of this Software Requirements Specification (SRS) document is to define the requirements for the vaccination management app. It outlines the functionalities, constraints, and limitations of the project to guide the development process. The intended audience includes the development team, stakeholders, and other parties involved in the project.

Scope of the Project

2.1 Project Boundaries

The project will focus on developing a mobile application for vaccination management, targeting families and pet owners in Sri Lanka. It includes features such as user registration, vaccination record management, notifications, educational resources, and pet vaccination management. The geographical scope covers the entire country of Sri Lanka.

2.2 Features and Functionalities

- User registration and authentication
- Vaccination record management for families and pets
- Automated notifications and reminders for upcoming vaccinations
- Access to educational resources on vaccines and health
- Pet vaccination management module

Stakeholder Analysis

3.1 Identification of Stakeholders

- Families
- Pet owners
- Healthcare professionals
- Ministry of Health officials

3.2 Analysis of Stakeholders

- Families and pet owners: End-users responsible for managing vaccination records for themselves and their pets.
- Healthcare professionals: Provide guidance and support in vaccination management.
- Ministry of Health officials: Regulate vaccination practices and may provide support or data for the app

Overall Description

4.1 Old One

Keeping track of vaccinations for families and pets in Sri Lanka is not easy. People have to write down information about vaccinations on paper, which can be messy and hard to understand. As more vaccinations are needed, it becomes even harder to manage all the records. So, there's a need for a better way to keep track of vaccinations.

4.2 New One

To solve the problems with the old way of managing vaccinations, we're going to create a new mobile app. This app will make it much easier for people to keep track of vaccinations for themselves, their families, and their pets. It will send reminders when vaccinations are due, store all the information securely, and even provide helpful information about vaccines and health.

User Requirements

5.1 Requirements Gathering

To understand what families and pet owners want in a vaccination management app, we can understand from our social and family experience. By this, we can learn about their experiences with vaccinations and what they think would make managing them easier.

5.2 User Needs and Preferences

Families and pet owners want an app that feels like a helpful friend, not a complicated chore. They want it to be easy to use, like how they'd use social media or messaging apps with their friends and family. They also want to get reminders about vaccinations at just the right time, so they don't forget. And most importantly, they want to be able to trust the information they find in the app, so they can make the best decisions for their loved ones' health.

Functional, Non-functional Requirements

6.1 Definition of Functional Requirements

Functional requirements are like the building blocks of the app - they're the things the app needs to actually do.

Here are the main things the app needs to do:

- **User Registration:** This means allowing people to sign up for the app, creating their own accounts with their name, email, and password.
- **Vaccination Record Management:** The app should let users add, edit, and delete their vaccination records. This includes things like the name of the vaccine, when they got it, and who got it.
- **Notifications:** The app needs to be able to remind users when they or their pets are due for a vaccination. It'll send notifications to their phone to remind them.
- **Educational Resources:** The app should have information about vaccines and health that users can read or watch to learn more about keeping themselves and their pets healthy.
- **Pet Vaccination Management:** If a user has a pet, the app should also let them keep track of their pet's vaccinations, just like they do for themselves.

6.2 Definition of Non-functional Requirements

Non-functional requirements are a bit different - they're about how the app works rather than what it does.

Here are some things we need to make sure the app does well:

- Performance
- Security
- Reliability
- Usability
- Compatibility

Tools and Technologies Expected to be Used

- Flutter framework with Dart programming language for mobile app development
- MySQL database for storing vaccination records.
- Firebase Cloud Messaging for automated notifications

Data Requirements

9.1 Types of Data

This part talks about the different kinds of information that the app will need to keep track of.

It includes:

- User Profiles: This means details about the people using the app, like their names and email addresses.
- Vaccination Records: This refers to information about when people and their pets got vaccinated, including details like the type of vaccine and the date it was given.
- Educational Content: This means any articles, videos, or other information that the app provides to help users learn more about vaccines and staying healthy.