**VaccAlert**

**Business Requirement Specification**

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# 1. Introduction

# Document Purpose

This document communicates the business requirements and scope for developing VaccAlert System. The scope of this document is to define the functional and non functional requirements, business rules and other constraints requirements.

# Project Background

Currently there is no computerized system to manage and monitor vaccinations given to children. Vaccination is very important to any child for healthy life. Without a centralized system, it is challenging to ensure that children receive their vaccinations at the right age, resulting in missed or delayed vaccinations. This can lead to outbreaks of preventable diseases when parents forget or choose not to vaccinate their children. Furthermore, unvaccinated children can spread diseases to other vulnerable populations, including infants and individuals with weakened immune systems. To address these problems, a software solution is needed to track and manage vaccination schedules, ensuring timely and complete immunization coverage. This system would help maintain high vaccination rates and protect public health by preventing the spread of infectious diseases.

# Goals of the project

The main objective of this project is to increase the vaccination rate by providing a comprehensive software solution for managing childhood vaccinations. The system will alert parents about upcoming vaccinations and their prices based on the child's birth date, according to the immunization chart prescribed by the Government of India. It will help users find nearby hospitals for treatment by providing addresses and contact numbers. It will provide descriptions of each vaccination, including any potential side effects, and offer a quick view summary report of completed and upcoming vaccines.

# Customers and Stakeholders

Customers:

* + Parents
  + Hospitals and Healthcare Providers
  + Administrators

Stakeholders

* + Health Department
  + Parents
  + Hospitals and Healthcare Providers
  + Administrators

# 2. Business Requirements Overview

* VaccAlert is a public web application accessible to all parents in India.
* It provides a platform for parents to manage their child's vaccination schedule conveniently.
* Initially targeting users in India, including parents, hospitals, and administrators involved in child healthcare.
* Digitizes vaccination records, streamlining record-keeping for parents and healthcare providers.
* Enhances communication between parents and healthcare providers, ensuring timely vaccinations.
* Provides administrators with tools for efficient system management and data security.

# 3. Functional Requirements Overview

VaccAlert System consists of three modules described as below.

1. Parent Module
2. Hospital Module
3. Admin Module

# 3.1 Parent Module

* Parent can Sign Up and Sign in to his/her own account.
* Parents can modify their own profile.
* Parents can book appointment for vaccination.
* Parents can get reminders for upcoming vaccinations and medications.
* Parents can download vaccination records.
* Parents can communicate with hospitals for any related queries.

# 3.2 Hospital Module

* Hospitals can communicate with parents for vaccination and medication related queries.

# 3.3 Admin Module

* Admin manages parent and hospital accounts.
* Admin can generate reports.
* Admin can view statistics on user engagement & application usage.

# 4. Non-functional Requirements

* The website should use professional design, look and feel and color scheme.
* Users will have no limitations for accessing the application through Internet. The portal being an internet application, it is difficult specify exact number of visitor or users. Hence we will target the system to support between 5 and 10 million users on launch of phase 1.
* Being a public website, the site must follow general usability guidelines for menus, navigation, colors, links and other actions provided on the screens.
* The system should be designed in such a manner that user will be able to complete tasks in minimum number of steps.