

Survey Paper on Child Vaccination System

Prof. Shah S.N¹, Sunny Shinde², Pruthviraj Jagtap³, Rutik Bhandwalkar⁴, Tushar Hajare⁵

¹Professor, Computer Department, SPCOET Someshwarnagar College, Baramati, India

^{2,3,4,5}Student, Computer Department SPCOET Someshwarnagar College, Baramati, India

Abstract-Vaccination protects children against many infectious diseases. Vaccines contain either noninfectious components of bacteria or viruses or whole forms of these organisms that have been weakened so that they do not cause disease. Giving a vaccine (usually by injection) stimulates the body's immune system to defend against that disease. Vaccination is also called immunization because it produces a state of immunity to disease. This system helps to child vaccination. It gives notification of vaccination to the parent of child and provide vaccination schedule. This system also provide information of some common disease of child and precaution for that disease. This system helps those people who live in rural areas and health worker are not able to reach the area. So people does not have any information of vaccination but this application provide information to the people.

Keywords- Mobile Application, Vaccines, Android Application, Immunization, Children, Vaccination, Smartphone.

INTRODUCTION

In an era of rapidly advancing technology, ensuring the health and well-being of our children is more accessible and convenient than ever before. We are excited to introduce the "Child Vaccination System" a revolutionary mobile application designed to simplify and enhance the vaccination process for parents, caregivers, and health-care providers. Childhood vaccinations are a cornerstone of preventative healthcare, protecting children from a range of potentially life-threatening diseases.

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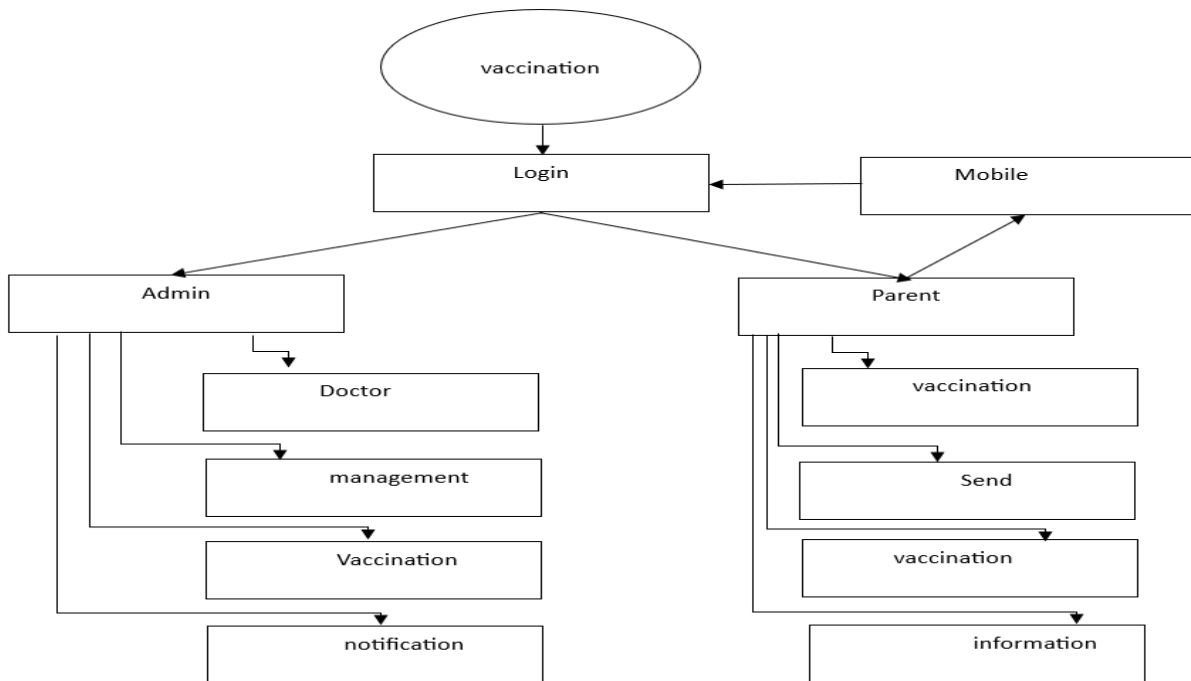


Figure 1 Flowchart for Child Vaccination System

LITERATURE SURVEY

1. Paper name: Children Immunization App (CIImA), low-cost digital solution for supporting Syrian Refugees in Zaatari camp in Jordan

Author: Ziad El-Khatib, Soha El-Halabi, Mohamad Abu Khdeir and Yousef S. Khader

Mobile applications (apps) can improve health outcomes. In this study, we have described an app developed for documenting the history of vaccination among Syrian children in one of the largest refugees' camps in the Middle East region. This app includes health education information and automated reminders for parents, using a visual tool for parents with low literacy level. We have emphasized on the usability and technical concerns and have described the interdependency of technical and human considerations for such health app solution in a marginalized context.

2. paper name: e-Vaccine: An Immunization App

Author: Shirin Hasan, Mir Mohammad Yousuf, Hemant Kumar, Nishita Marwah.

Due to lack of adequate healthcare, India has high Infant Mortality rates. Making sure that children have access to proper healthcare and immunization against diseases that can be prevented by vaccines, is a huge challenge that is being faced by developing countries like ours. This highlights the importance and need of having a better, smarter system in place, to improve the situations. In this paper, we discuss an android application that was developed to address this concern. This application provides a system to provide information, store records and help parents schedule vaccination appointments for their children.

PROPOSED SYSTEM

Creating a proposed system for a child vaccination app involves outlining its features, functionalities, and components to ensure that it effectively serves the needs of parents and caregivers in managing their child's vaccination schedule and healthcare. Here's an outline of a proposed system for a child vaccination app: User registration with email or mobile number. Create and manage profiles for each child. Input basic information about the child, including name, date of birth, and gender. Ability to edit and update child profiles. Generate a personalized vaccination schedule

based on the child's age and local vaccination guidelines. Display a list of recommended vaccines, including their names, descriptions, and due dates. Allow parents to add custom reminders for non-standard vaccinations or booster shots.

METHODOLOGY

a. App Design :

Create wireframes and prototypes to visualize the app's user interface and user experience (UI/UX). Design the app to be user-friendly, with an intuitive interface. Ensure that the app is accessible and usable for all potential users.

b. Requirement Gathering:

Collaborate with healthcare professionals, pediatricians, and parents to gather detailed requirements for the app's features and functionality. Define the database structure for storing vaccination records and user information.

c. Define Objectives and Goals:

Identify the primary objectives of the app, such as helping parents track their child's vaccination schedule, providing vaccine information, and sending reminders. Set clear goals for the app's development, such as improving vaccination rates and reducing missed vaccinations.

d. Market Research:

Research the existing child vaccination apps to understand their features, strengths, and weaknesses. Identify your target audience and their needs and preferences. Consider the legal and regulatory requirements related to healthcare and data privacy.

CONCLUSION

A child vaccination app can play a significant role in improving child healthcare and ensuring timely immunization. These apps can make it more convenient for parents to keep track of their child's vaccination schedule. They can receive timely reminders, access educational resources, and even schedule appointments through the app. Child vaccination apps can help improve immunization coverage by providing parents and caregivers with easy access to vaccination schedules and reminders. This can significantly reduce the risk of vaccine-preventable diseases.

FUTURE SCOPE

In the event of a disease outbreak, child vaccination apps can be used for rapid communication and coordination of mass vaccination campaigns. Child vaccination apps could potentially be integrated with wearable devices that track a child's health parameters, ensuring a holistic approach to healthcare.

ACKNOWLEDGEMENT

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