

VACCINATED PEOPLE IDENTIFICATION SYSTEM

MATLAB APPLICATION



Project Proposal

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Introduction

The COVID-19 pandemic that began in Wuhan – China in December 2019 has led to a dramatic loss of human life worldwide. It presents an unprecedented challenge to public health, food systems and the world of work. The COVID-19 Although we are in a dark era, we have to control this situation till recover the country. For that, the thing that already have been found is increasing immunity in human body function. To accomplish this target the government continue the vaccination programmed.

However, some people are missing them. In according to that the behavior of people is not at a satisfactory level and don't get the vaccine has in return led to a massive reason for the wide spread and increasing number of death of Covid-19 in Sri Lanka.

Project Background

As a strategic approach, the government continue the vaccination program In this concurrent situation, general public has also a huge role to play in order to combat this health crisis. However, it is sad to say that there is a significant number of people are missing these vaccination process. Further some people use the fake vaccination cards. If they are not involved in the correct vaccination process and adhere to the Covid 19 guidelines, health officers have to put additional effort to control this situation

Problem Definition

Nowadays, vaccination is a crucial part of the strategy to curb the spread of COVID-19. In day to come, we have to check whether vaccinated and non-vaccinated in general life. (public places, all public institutes).

In that situation, relevant officials have to check this by vaccination card. Here, those officers expose to a greater risk since they directly contact with many people. To avoid these weaknesses If we can develop a system where we can check whether vaccination details of the person (Number of doses taken & vaccine type) remotely through our own system, it would an effective mechanism to slowdown the wide spread of Covid-19.

Proposed Solution

Up to now, the officials does not have an information system for the convenience and safety of the officers who actively contribute to this above-mentioned process and to slowdown the rapid spread of Covid 19.

Therefore, we have planned to develop a MATLAB-based Image processing system that enables officers to overcome this practical issue through a computerized system where they can check the people at the public areas that they are remotely, reliably and most importantly in a secure manner. By that we hope to scan NIC and check whether vaccinated or not.

Objectives

We can find two categories of stakeholders in this problem.

- User
- System Admin

At the completion of this project, we expect our final solution will be a strategic platform that helps the stakeholders in following ways,

- **User**

Officer should be able to,

- ✓ Scan NIC
- ✓ View whether the person got vaccinated.
- ✓ View whether the person missed dose.

- **System Admin**

System Admin should be able to,

- ✓ Add users
- ✓ Delete Users
- ✓ Enter vaccination details

We hope to develop the system using MATLAB to cover the above specified requirements.