System Design

Wakanda - NCMS

(Wakanda – National COVID Management System)

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# System Design (SD Document)

# 1. Introduction

### 1.1 Purpose

The purpose of this document is to give a detailed description of the requirements for the “Wakanda – National COVID Management System” (Wakanda - NCMS) software. It will illustrate the purpose and complete declaration for the development of system. It will also explain system constraints, interface and interactions with other external applications.

### 1.2 Scope

Wakanda is a small island nation having only five districts. It maintains a good healthcare system having one base hospital per district. As the COVID19 is spreading all over the world so fast, the Ministry of Health (MoH) wants to build a National COVID Management System (NCMS) immediately to efficiently manage the situation. It should involve citizens, hospitals, doctors, and authorities of the country.

Wakanda – National COVID Management System” (Wakanda - NCMS) is a web application, which helps citizens to admit to the nearest hospital with beds available if anyone shows COVID 19 symptoms. Citizens can provide their information and register on the Wakanda – NCMS using the web portal. Citizens are notified by the system about hospital allocated, bed number, unique serial number and if there are no beds available in all the hospitals, a queue number and the serial number

And it also helps doctors of the hospitals to manage the patients. Doctors can register, log in to the system and update patient data.

It helps MoH authorities to build new hospitals if the number of beds in the hospitals are not enough for the newly registering patients. The web application also provide statistics for citizens and MoH authorities regarding the current situation of the COVID 19 in the country.

# 2. Design

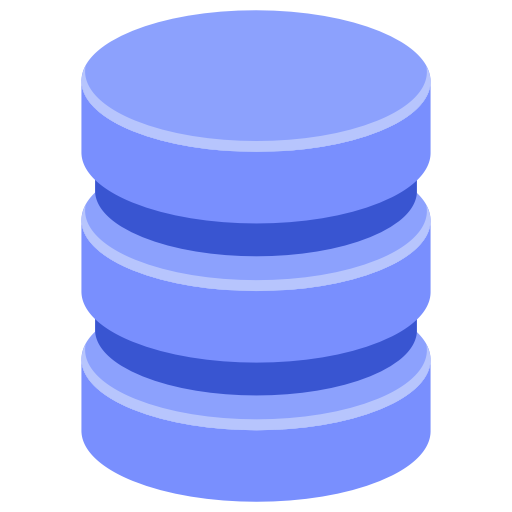
### 2.1 Classes

* Citizen
* Doctor
* Hospital
* MoH\_Authority
* District
* Bed

### 2.2 Operational Environment

* MySQL Database
* Java
* Github Repository
* AWS
* React
* CSS

### 2.3 Software Architecture



Data Base

Web server

Web User