Covid Tracking and Management System

Overview

Basic Informatior

Customor

U a anita

Hospital Staf

Implementation

# Covid Tracking and Management System

Suryaansh Jain Rishit D Rahul Ramachandran

May 19, 2022

# Outline

Covid Tracking and Management System

Overviev

Informatio

Customer

Admir

riospitai

Hospital Staff

Implementation

- Overview
- 2 Basic Information
- 3 Customer
- 4 Admin
- 6 Hospital
- 6 Hospital Staff
- Implementation

## Overview

Covid Tracking and Management System

#### Overview

Basic Informatior

Customer

A .1.....

Hospit:

Hospital Staff

Implementatio

#### This project:

- allows customers to book vaccination appointments.
- allows customers to report covid cases.
- allows hospital staff to verify vaccinations.
- allows hospitals to view stats.
- allows hospitals to keep track of number of vaccines.
- gives information on covid cases and answers questions on covid vaccinations and symptoms.

## **Basic Information**

Covid Tracking and Management System

Overview

Basic Information

Customer

Admir

ilospitai

Hospital Staff

Implementation

The following information will be displayed on the home-page (open to all)

#### Cumulative Data

Displays total cases, total deaths, total recoveries, new case-load for the day.

#### Present Data

Displays number of active cases and closed cases.

### Graphs

Graphically represents daily case-load, daily deaths, total cases, total deaths.

## Customer Functionalities 1

Covid Tracking and Management System

Overviev

Basic Informatior

Customer

Admii

ноѕрітаі

Hospital Staff

Implementation

## Sign Up + Sign In

Every user can sign up and access the website by giving Aadhar ID, username/email, password and details on vaccination and demographics. Registered users can then sign in and can do the following functionalities.

### Self-Reporting

Any user that has tested positive can report himself/herself on the website. This allows hospitals to keep track of cases and assess the situation using vaccination status and demographic parameters.

## Customer Functionalities 2

Covid Tracking and Management System

Overviev

Basic Information

Customer

Admii

Hospita

Hospital Staff

Implementati

### Vaccination Appointment

Users can book appointments for vaccinations on a desired date. They will be given a list of hospitals that has sufficient vaccines to choose from. They will also be warned if their next dose is not yet due.

### **Update Vaccination Status**

Users can update their vaccination status and date of last vaccination if they have obtained vaccination without using the website. This functionality will be prompted every time a user logs in, in order to keep data continuously updated.

## **Customer Functionalities 3**

Covid Tracking and Management System

Overviev

Basic Informatior

Customer

A .1......

Hospita

Hospital Staff

riospitai Staii

### FAQ's and covid Info

This functionality helps the user use the website efficiently. The user will also be redirected to reliable webpages with accurate information on vaccines and covid symptoms.

#### Self-Assessment Test

This functionality helps the user to assess his risk of infection based on questions asked to the user.

## Admin Functionalities

Covid Tracking and Management System

Overviev

Basic Information

Custome

Admin

Hospital

Hospital Staff

### Manage Admins

Every admin can add and delete other administrators.

### Manage Hospitals

Every admin can add and delete hospitals that can administer vaccines and access data using the website.

# Hospital Functionalities

Covid Tracking and Management System

Overvie

Basic Information

Customer

Admir

Hospital

Hospital Staff

. . .

#### Re-stock Vaccinations

Every hospital can re-stock the vaccination inventory, to allow more people to get vaccinated.

### Manage Hospital Staff

Every hospital can add and delete hospital staff. All staff will be deleted if the admin deletes the hospital.

## Staff Functionalities

Covid Tracking and Management System

Overviev

Basic Information

Custome

Admii

Hospital Staff

Implementation

#### Mark Vaccinations

Every staff can update vaccination status of users who have booked a vaccine appointment, after administering the vaccine. This will automatically deduct a vaccine from the respective hospital's inventory.

#### Assess Data

Every staff can view cases in the vicinity of the hospital and view them by a demographic parameter (or) by their vaccination status.

# Implementation

Covid Tracking and Management System

Overviev

Basic Informatior

Customer

Admir

....

Hospital Staff

Implementation

- The front-end will be implemented using HTML, CSS and JavaScript.
- The back-end will be implemented using Java and mySQL (for database management).
- The SQL database will consist of the following tables:
  - 1 Admin: Admin-ID, name, password
  - Customer: Aadhar-ID, name, password, age, gender, vax-status, covid-status, death-status, date-of-last-vax
  - Mospital: hospital-ID, name, password, vax-nos
  - 4 Hospital Staff (Referencing hospital-ID): hospital-ID, staff-ID, name, password
  - Sappointments: Hospital-ID, Aadhar-ID, Date-of-vax