# WEB-Technologies Final Project

Project Report – Vaccine Administration System

Submitted to:

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# Introduction

To make a fully functional website to manage a vaccine program and learn while in the process the functioning of back-end and front-end part of website making. Our website tries to replicate a vaccine distributor (Akra Institute of India) who can take vaccine orders from registered vaccination centers and can take in the data from AEFI's (Adverse event following immunization). There are a total of seven webpages in our website each serving its own purpose. The website is connected to its database created on PhpMyAdmin and sends and receives data from that database.

# Tools Used

- HTML5 – For displaying the content of our pages.

- CSS3 – For designing all the webpages.

- JavaScript – For adding basic functionality to our webpages.

- Bootstrap – For table templates.

- PHP – For connecting the front-end to back-end.

- SQL – For creating the database.

- MAMP – For locally hosting the website.

Abstract of the project – Akra is a public sector organization which masters in production of CoviAkra vaccine. The website helps vaccine center all around India to order coviakra vaccine. The vaccine order may or may not be approved based on the already existing stock at the vaccine center ordering the vaccine.

The website also helps report AEFI's. The data collected from them helps Akra understand the sideeffects of its vaccine and also helps to contact the reported person if necessary.

The Database

- AEFI – Collects the data from vaccine distributor's website of all the AEFIs reported so far.

- Vaccination_center – Collects the data from vaccine distributor's website of all the vaccination center who has ordered from the website.

- Vaccine_distributor – Has information about all the vaccine distributors (e.g, Akra).

# Functioning of the website

- Placing An Order –



Order Confirmation ->

## Database ->

| | | | | vac_administrator_id | name | order_quantity | stock_available | email | daily_capacity | address | created |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☐ | Edit | Copy | Delete | 9 | Ramakant Hospital | 1200000 | 20000 | ramakant@gmail.com | 1200 | kotak road, mumbai | 2021-05-14 17:25:27 |
| ☐ | Edit | Copy | Delete | 10 | Sterling Hospital | 100000 | 300000 | sterling.mumbai1@gmail.com | 550 | sterling hospital, kala road, mumbai | 2021-05-14 17:28:06 |
| ☐ | Edit | Copy | Delete | 11 | apollo hospital, rajkot | 100000 | 30000 | apollo.rajkot1@gmail.com | 1200 | raiya-chowk, rajkot | 2021-05-14 17:29:13 |
| ☐ | Edit | Copy | Delete | 12 | Ambuja hospital | 100000 | 10000 | ambuja@hotmail.com | 5000 | ambuja-nagar, ahmedabad | 2021-05-14 17:30:15 |
| ☐ | Edit | Copy | Delete | 13 | Rajkumari public school | 1000 | 1000 | rajkumari.schools2@gmail.com | 80 | rajkumari school, ahmednagar, chennai | 2021-05-14 17:31:23 |
| ☐ | Edit | Copy | Delete | 14 | Apta Public Center | 100000 | 10000 | apta.email@yahoo.com | 100 | apta institution, mumbai | 2021-05-14 17:45:19 |
| ☐ | Edit | Copy | Delete | 15 | Shreya Hospital | 2000 | 10000 | shreya@gmail.com | 150 | Olive road, mumbai | 2021-05-14 18:17:09 |
| ☐ | Edit | Copy | Delete | 16 | Stromp Delhi | 200000 | 100000 | stromp@gmail.com | 1200 | stromp hospital, ahmadnagar, ahmedabad | 2021-05-14 22:12:22 |

## Website view ->

**AKRA** Akra Institute Of India     🏠 Home   💬 About us   🏃 Place Order   👤 Report AEFI   🩹 Covid-19

## Vaccine Orders

| Serial | Name | Quantity Required | Stock Available | Email | Daily immunisation capacity | Address | Order Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | Ramakant Hospital | 1200000 | 20000 | ramakant@gmail.com | 1200 | kotak road, mumbai | 2021-05-14 17:25:27 |
| 2 | Sterling Hospital | 100000 | 300000 | sterling.mumbai1@gmail.com | 550 | sterling hospital, kala road, mumbai | 2021-05-14 17:28:06 |
| 3 | apollo hospital, rajkot | 100000 | 30000 | apollo.rajkot1@gmail.com | 1200 | raiya-chowk, rajkot | 2021-05-14 17:29:13 |
| 4 | Ambuja hospital | 100000 | 10000 | ambuja@hotmail.com | 5000 | ambuja-nagar, ahmedabad | 2021-05-14 17:30:15 |
| 5 | Rajkumari public school | 1000 | 1000 | rajkumari.schools2@gmail.com | 80 | rajkumari school, ahmednagar, chennai | 2021-05-14 17:31:23 |
| 6 | Apta Public Center | 100000 | 10000 | apta.email@yahoo.com | 100 | apta institution, mumbai | 2021-05-14 17:45:19 |
| 7 | Shreya Hospital | 2000 | 10000 | shreya@gmail.com | 150 | Olive road, mumbai | 2021-05-14 18:17:09 |
| 8 | Stromp Delhi | 200000 | 100000 | stromp@gmail.com | 1200 | stromp hospital, ahmadnagar, ahmedabad | 2021-05-14 22:12:22 |

- Reporting an AEFI ->

## Report AEFI

AEFI reported sucessfully!

Your Name*

Verma Sharma

Gender*

◉ Male ○ Female ○ Others

Birth Date: *  06/14/1981

Age

39

Age Group

◉ 18-45

○ 45+

Aadhar Number*

675687456546

Contact Number 1*

8780904654

Contact Number 2

Address *

Kupdi haveli, kulwa district, Kanpur

Symptoms *

Head is red

Reset          Submit

AEFI reported sucessfully!

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Triggers

Showing rows 0 - 4 (5 total, Query took 0.0010 seconds.)

`SELECT * FROM `aefi``

☐ Profiling [Edit inline] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh]

☐ Show all | Number of rows: 25 ▼ | Filter rows: Search this table | Sort by key: None ▼

+ Options

| | | | | name | gender | birth_date | age | age_group | vaccination_date | aadhar_number | contact_1 | contact_2 | address | symptoms |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ☐ | Edit | Copy | Delete | Raj Thakrar | m | 2001-06-03 00:00:00 | 19 | 18-45 | 2021-05-01 00:00:00 | 122312231223 | 8780904975 | NULL | jalaram-krupa, aksharpark-1,rajkot | cough, fever, headache and red eyes |
| ☐ | Edit | Copy | Delete | Megha Kumari | f | 1999-09-09 00:00:00 | 21 | 18-45 | 2021-05-05 00:00:00 | 123456789012 | 8780904975 | NULL | H-101, kala residency | cough, fever, headache and red eyes |
| ☐ | Edit | Copy | Delete | Shreya Mishra | f | 1976-10-14 00:00:00 | 44 | 18-45 | 2021-05-26 00:00:00 | 234556431234 | 8780904975 | NULL | olive building, h-101, kerela | dead |
| ☐ | Edit | Copy | Delete | Ankit Verma | m | 1999-01-14 00:00:00 | 22 | 18-45 | 2021-05-01 00:00:00 | 334555675465 | 9878987576 | NULL | Shivalik house, Mumbai | Left hand stopped working after 10 day. |
| ☐ | Edit | Copy | Delete | Verma Sharma | m | 1981-06-14 00:00:00 | 39 | 18-45 | 2021-05-07 00:00:00 | 675687456546 | 8780904654 | NULL | Kupdi haveli, kulwa district, Kanpur | Head is red |

↑ ☐ Check all With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 ▼ | Filter rows: Search this table | Sort by key: None ▼

**Query results operations**

Print | Copy to clipboard | Export | Display chart | Create view

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AKRA  Akra Institute Of India        🏠 Home   💬 About us   🚶 Place Order   👤 Report AEFI   💊 Covid-19

## AEFI - Adverse Events Following Immunization

| Serial | Adhar Number | Name | Phone | Vaccine Date | Symptoms |
|---|---|---|---|---|---|
| 1 | 122312231223 | Raj Thakrar | 8780904975 | 2021-05-01 00:00:00 | cough, fever, headache and red eyes |
| 2 | 123456789012 | Megha Kumari | 8780904975 | 2021-05-05 00:00:00 | cough, fever, headache and red eyes |
| 3 | 234556431234 | Shreya Mishra | 8780904975 | 2021-05-26 00:00:00 | dead |
| 4 | 334555675465 | Ankit Verma | 9878987576 | 2021-05-01 00:00:00 | Left hand stopped working after 10 day. |
| 5 | 675687456546 | Verma Sharma | 8780904654 | 2021-05-07 00:00:00 | Head is red |

Email us for any help

Other Pages ->



## About Us

### Introduction



AKRA Institute of India Pvt. Ltd. is now the world's largest vaccine manufacturer by number of doses produced and sold globally (more than 1.5 billion doses) which includes Polio vaccine as well as Diphtheria, Tetanus, Pertussis, Hib, BCG, r-Hepatitis B, Measles, Mumps and Rubella vaccines. It is estimated that about 60% of the children in the world receive at least one vaccine manufactured by AKRA Institute. Vaccines manufactured by the AKRA Institute are accredited by the World Health Organization, Geneva and are being used in around 170 countries across the globe saving millions of lives throughout the world.

### World Class Production Facilities

AKRA Institute of India has established the most modern laboratories with high-tech machinery and computerized equipment for the production and testing of its life saving biologicals. AKRA Institute's commitment to global health is exemplified by significant investments in its infrastructure. The production facilities are continuously upgraded to ensure compliance with cGMP regulations and have been accredited by the World Health Organization, Geneva.



AKRA Institute has crossed many milestones in technological advancement by installing robotic arm for virus handling, cell factory and cell cube for growing cells, facilities for the manufacture of polysaccharide and recombinant vaccines and for monoclonal antibodies. Sophisticated tunnel systems, high speed vial washing, filling, stoppering and sealing machines are capable of working at a speed of 500 containers per minute and have been installed with filling accuracy to the third digit of decimal point to ensure accuracy and consistency.



AKRA Institute has the latest technology screeners to inspect its products for any minute particulate matter undetectable to the normal human eye. Configured with high resolution CCD cameras and electronic controlled panel, the inspection is done fully automatically, thus reducing the margins of human errors. With the licensure of additional facilities, we has the flexibility to produce vaccines in more than one plant, thus facilitating production of large number of doses in the shortest time frame. This enables us to improve the response time to cater to any international emergency or outbreak.
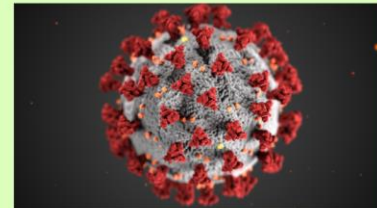
Email us for any help

# Coronavirus Disease(COVID-19)

## Overview

Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus. Most people infected with the COVID-19 virus will experience mild to moderate respiratory illness and recover without requiring special treatment. Older people, and those with underlying medical problems like cardiovascular disease, diabetes, chronic respiratory disease, and cancer are more likely to develop serious illness.

The best way to prevent and slow down transmission is to be well informed about the COVID-19 virus, the disease it causes and how it spreads. Protect yourself and others from infection by washing your hands or using an alcohol based rub frequently and not touching your face. The COVID-



## Symptoms

COVID-19 affects different people in different ways. Most infected people will develop mild to moderate illness and recover without hospitalization.
- Most common symptoms:
  - Fever
  - Dry cough
  - Tiredness
- Less common symptoms:
  - Aches and pains
  - Sore throat
  - Diarrhoea
  - Conjunctivitis
  - Headache
  - Loss of taste or smell
  - A rash on skin, or discolouration of fingers or toes



## Prevention

To prevent infection and transmission of COVID-19, do the following:
- Wash your hands regularly with soap and water, or clean them with alcohol-based hand rub.
- Maintain at least 1 metre distance between you and people coughing or sneezing.
- Avoid touching your face.
- Cover your mouth and nose when coughing or sneezing.
- Stay home if you feel unwell.
- Refrain from smoking and other activities that weaken the lungs.
- Practice physical distancing by avoiding unnecessary travel and staying away from large groups of people.

# Future Plans

We are planning to get better at the tools used in the project and learn more about all the new better technologies.For our project we would like to:

- Automate the process of order confirmation/rejection which is based on the stock and capacity of the vaccine center.

- Automate the "order confirmation email."

- Automate contacting severe reported AEFI through pre generated messages.

- Learn and use more different frameworks like bootstrap.

Thank you.