MANIPAL UNIVERSITY JAIPUR

INSPIRED BY LIFE

MADE UNDER THE GUIDANCE OF
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COVID-AID

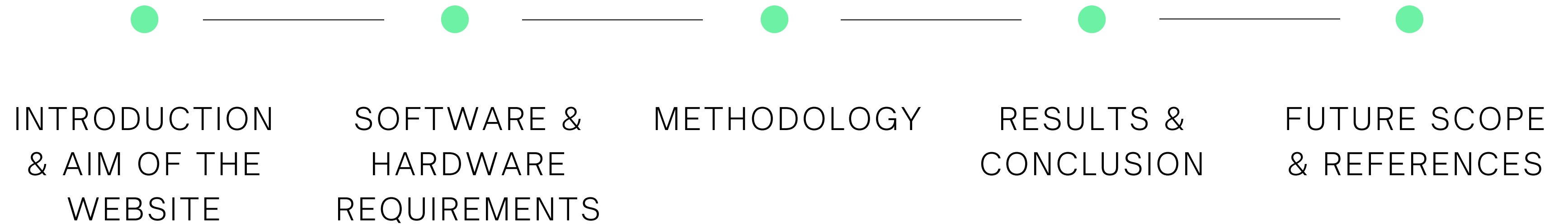A Non-Profit Website

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INTRODUCTION: THE COVID CRISIS

- INDIA IS WITNESSING AN UNPRECEDENTED CRISIS IN FORM OF COVID-19, SYMBOLIZED BY CRUMBLING HEALTH INFRASTRUCTURE, ACUTE OXYGEN SHORTAGE, RISING DEATH TOLL.

- DESPITE THE HEALTH INFRASTRUCTURE BEING STRETCHED TO ITS FULLEST, A LARGE SECTION OF THE POPULATION IS STILL LEFT TO FEND FOR ITSELF IN MIDST OF THIS PANDEMIC. IN RESPONSE, MANY NGO'S HAVE PLAYED A CRUCIAL ROLE IN THIS CRISIS BY PROVIDING CRITICAL SERVICES TO THE VULNERABLE PEOPLE AND REACHING OUT TO THE MOST MARGINALIZED AREAS.IN THESE CONDITIONS, NON-PROFIT WEBSITES HAVE PROVED TO BE VERY USEFUL TO THESE NGO'S.

What is a Non-Profit Website?

- A Non-Profit website provides any NGO with a strong online presence and an efficient way to spread their mission. Such websites are cost effective way to engage supporters, increase awareness for any cause, and conduct fund collection drives.
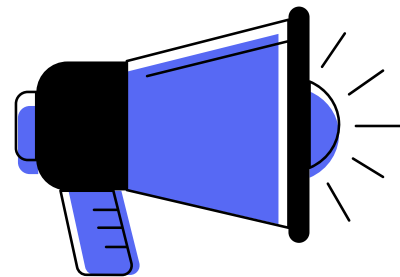- Examples - Breathe India by Milaap Foundation, The Hemkunt Foundation.
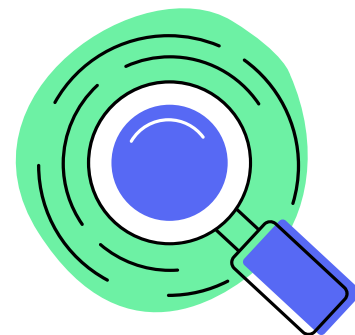
www.milaap.org

www.HemkuntFoundation.com

AIM OF THE WEBSITE:

- THE WEBSITE WILL PROVIDE THE ORGANISATION A VIRTUAL PLATFORM THROUGH WHICH IT CAN GATHER SUPPORT AND FUNDS FOR COVID RELIEF. THESE FUNDS/DONATIONS CAN THEN BE USED FOR DISTRIBUTION OF OXYGEN CONCENTRATORS TO THE HOSPITALS AND COVID CARE CENTRES,FOR PROVIDING MEALS AND SHELTER TO THE MARGINALIZED GROUPS AND THE MIGRANT LABOURERS,FOR DISTRIBUTION OF OTHER ESSENTIAL MEDICAL EQUIPMENTS LIKE MASKS, SANITIZERS ETC, AND RECRUITING VOLUNTEERS FOR THE SAME.
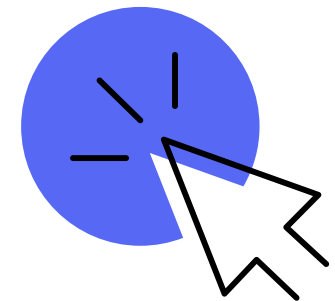
Create Awareness

Recruite Volunteers

Gather funds and support for a cause

Increase reach of the org.

SOFTWARE & HARDWARE REQUIREMENTS

1 IDE – Visual Studio Code/ATOM/SQL

2 XAMPP (For Apache and MySQL server)

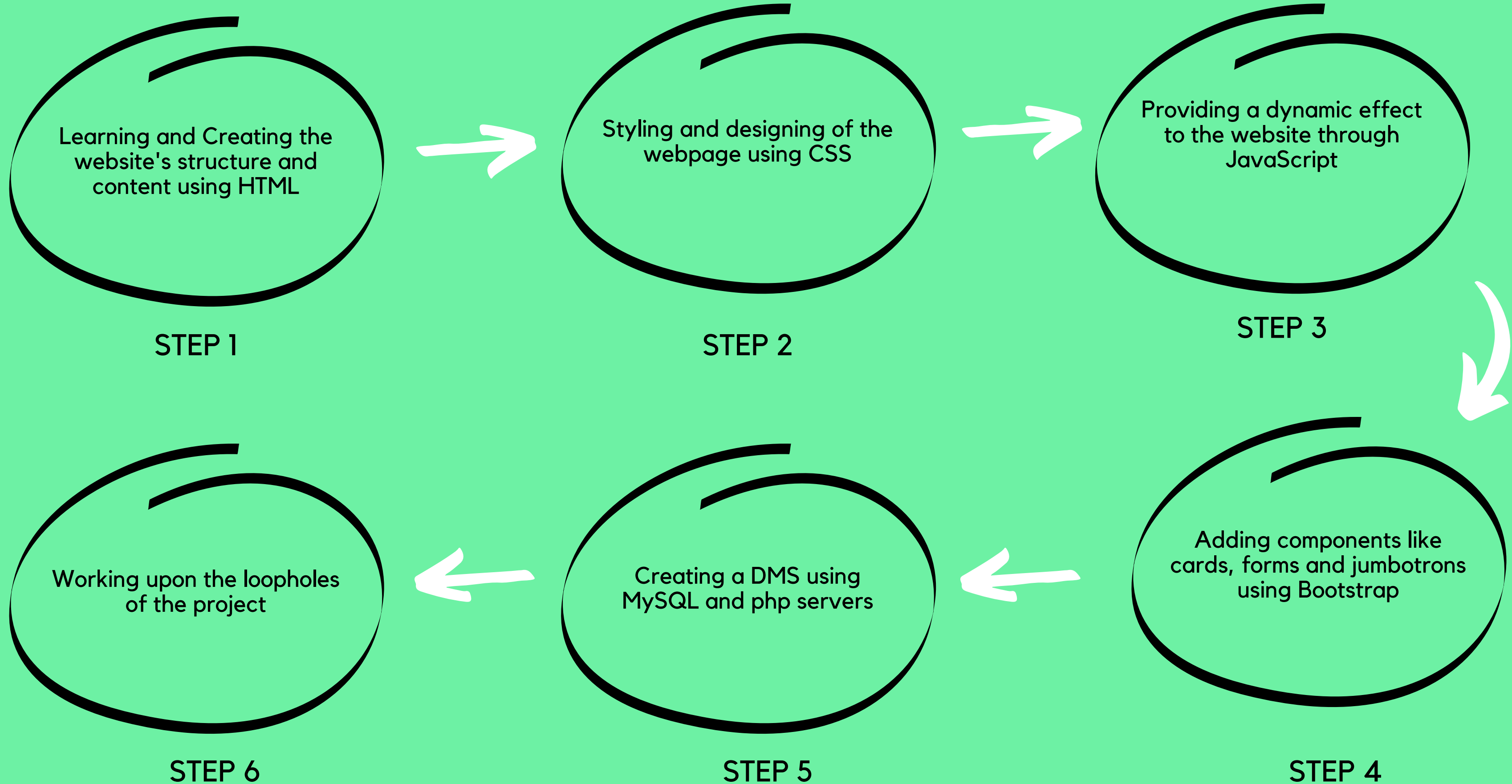**3** OS – Windows 7/MacOS/Linux

4 CPU– Intel Core i7/AMD Ryzen 7

5 RAM– 4GB (Recommended)

6 HARD DISK– 32GB (Recommended)

Methodology

Learning and Creating the website's structure and content using HTML

STEP 1

Styling and designing of the webpage using CSS

STEP 2

Providing a dynamic effect to the website through JavaScript

STEP 3

Working upon the loopholes of the project

STEP 6

Creating a DMS using MySQL and php servers

STEP 5

Adding components like cards, forms and jumbotrons using Bootstrap

STEP 4

FRONT END

HTML

- HYPER TEXT MARK-UP LANGUAGE ABBREVIATED AS HTML IS KNOWN AS THE BASIC STRUCTURAL LANGUAGE FOR THE WEB. IT IS USED TO DESIGN THE BASIC STRUCTURE AND CONTENT OF THE WEBSITE. ALL THIS IS DONE WITH THE SEMANTICS, THEY ARE THE MEANINGFUL ELEMENTS IN THE WEBPAGE WHICH ARE COHERENT TO BOTH WEB DEVELOPER AS WELL AS BROWSER.

CSS

- NOW, TO PROVIDE SOME STYLING TO IT, CSS THAT CASCADING STYLE SHEET IS USED. IT HELPS IN MAKING OUR WEBPAGE LOOK MORE ATTRACTIVE AND PRESENTABLE, SO IS KNOWN AS THE PRESENTATION LAYER AND CAN CONTROL THE STYLING OF MANY PAGES ALL AT ONCE.

Commonly Used HTML Tags :

- The **<!DOCTYPE html>** declaration defines that this document is an HTML document
- The **<html>** element is the root element of an HTML page
- The **<head>** element contains meta information about the HTML page
- The **<title>** element specifies a title for the HTML page (which is shown in the browser's title bar or in the page's tab)
- The **<body>** element defines the document's body, and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.
- The **<div>** tag defines a division or a section in an HTML document.
- The **<p>** element defines a paragraph
- The **<a>** element use to link other or some web page to one particular place
- Most common attribute used is **href** which is also as hypertext interference and it tells the browser where to find the information you are linking.
- The **<meta>** tag defines the information of the HTML document. Meta is the data contains.
- The **<h1>** element defines a large heading.
- **<section> tag** defines the section of documents such as chapters, headers, footers or any other sections.

Commonly Used CSS Styles:

- THE **BACKGROUND** PROVIDES AN IMAGE OR COLOR TO ANY HTML ELEMENTS.
- THE **OPACITY PROPERTY** SPECIFIES THE OPACITY OF AN ELEMENT.IT RANGES BETWEEN THE VALUE 0-1.
- THE **HEIGHT AND WIDTH PROPERTIES** IS USED TO SET THE HEIGHT AND WIDTH OF AN ELEMENT.
- THE **PADDING PROPERTIES** USED TO GENERATE SPACE AROUND AN ELEMENT'S CONTENT, INSIDE OF ANY DEFINED BORDERS.
- THE **POSITION PROPERTY** SPECIFIES THE TYPE OF POSITIONING METHOD USED FOR AN ELEMENT.
- THE CSS **MARGIN PROPERTIES** ARE USED TO CREATE SPACE AROUND ELEMENTS, OUTSIDE OF ANY DEFINED BORDERS.
- THE **BOX-SIZING PROPERTY** ALLOWS US TO INCLUDE THE PADDING AND BORDER IN AN ELEMENT'S TOTAL WIDTH AND HEIGHT.
- THE **FONT-FAMILY CSS PROPERTY** SPECIFIES A PRIORITIZED LIST OF ONE OR MORE FONT FAMILY NAMES AND/OR GENERIC FAMILY NAMES FOR THE SELECTED ELEMENT.

JavaScript

- THE WEBPAGE THAT IS CREATED USING HTML AND CSS IS JUST A STATIC WEBPAGE AND DOES NOT HAVE A LIFE TO IT. NOW, TO GIVE IT A LIFE WE ADD JAVASCRIPT TO IT USING <SCRIPT> ---- </SCRIPT> TAG.

- IT PROVIDES A DYNAMIC EFFECT TO THE WEBPAGE, HELPS IN MAKING WEBSITES USER-FRIENDLY AND MORE INTERACTIVE WHICH IN TURN PROVIDES A BETTER USER EXPERIENCE.

- TOGETHER, HTML, CSS, AND JAVASCRIPT MAKE UP THE ESSENTIAL BUILDING BLOCKS OF WEBSITES, WITH CSS CONTROLLING A PAGE'S APPEARANCE, AND JAVASCRIPT PROGRAMMING ITS FUNCTIONALITY.

BACK END

- MYSQL IS AN OPEN SOURCE RELATIONAL DATABASE MANAGEMENT SYSTEM. IT RUNS AS A SERVER AND ALLOWS MULTIPLE USERS TO MANAGE AND CREATE NUMEROUS DATABASES. IT CAN BE USED TO DEVELOP A DMS FOR STORING THE INFORMATION OF THE VOLUNTEERS.

- PHP IS A GENERAL-PURPOSE SCRIPTING LANGUAGE ESPECIALLY SUITED TO WEB DEVELOPMENT.IT IS USED TO MANAGE DYNAMIC CONTENT, DATABASES, SESSION TRACKING ETC.IT IS INTEGRATED WITH A NUMBER OF POPULAR DATABASES, INCLUDING MYSQL, POSTGRESQL, ORACLE, SYBASE, INFORMIX, AND MICROSOFT SQL SERVER.

Future Prospects

01 TO DEVELOP A REAL TIME COVID-19 TRACKER USING API.

02 TO ENABLE THE DONATE SECTION BY INTEGRATING A PAYMENT GATEWAY LIKE PAYPAL & RAZORPAY.
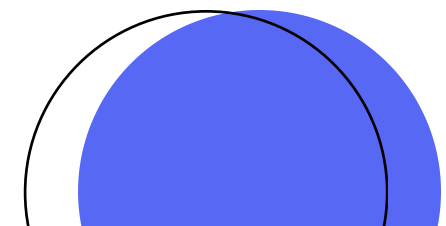
03 MAKE AN AUTHENTICATION SYSTEM FOR THE LOGIN PAGE & IMPROVE THE QUALITY OF THE WEBSITE AND ITS ELEMENTS.
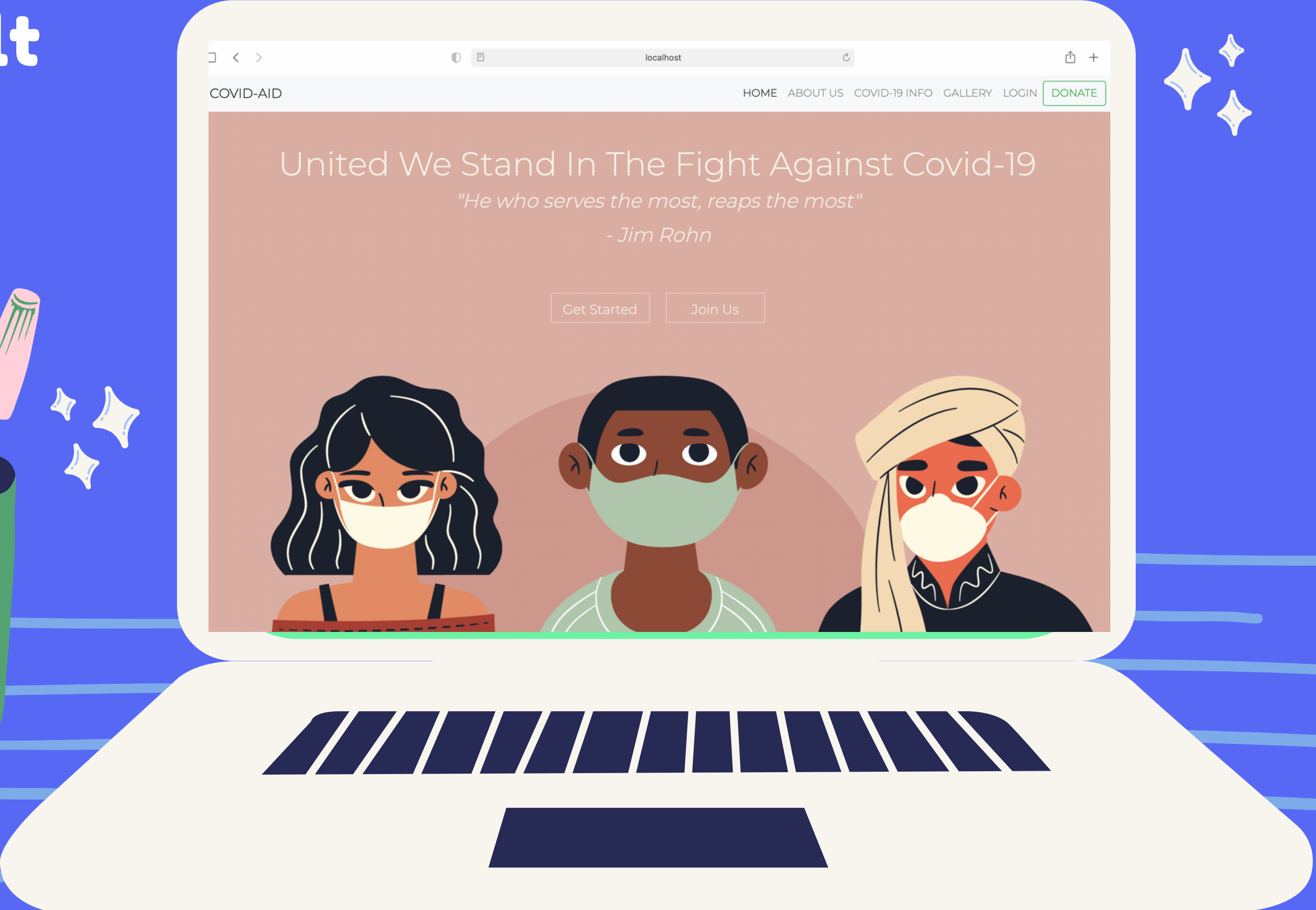
Conclusion

Since the outbreak of the pandemic, the NGOs have played a fundamental role in fighting COVID-19 at local level. They have been in forefront by providing basic necessities to the underprivileged, supplying medical and protective gear and assisting with awareness campaigns on social distancing. Having an online presence through these websites have further strengthened their reach and ability to engage with the community and provide relief work. And these websites have also allowed people to contribute/serve to the community through a virtual platform.

Result

COVID-AID

United We Stand In The Fight Against Covid-19

"He who serves the most, reaps the most"

- Jim Rohn

Get Started   Join Us

SOURCES

BOOTSTRAP

W3SCHOOLS

YOUTUBE

GOOGLE FONTS

GITHUB

UNSPLASH

CANVA.COM

GEEKS FOR GEEKS