Project on

Website of Covid-19 tracker

UNIVERSITY OF CALCUTTA

Submitted By Prodeepta Bera

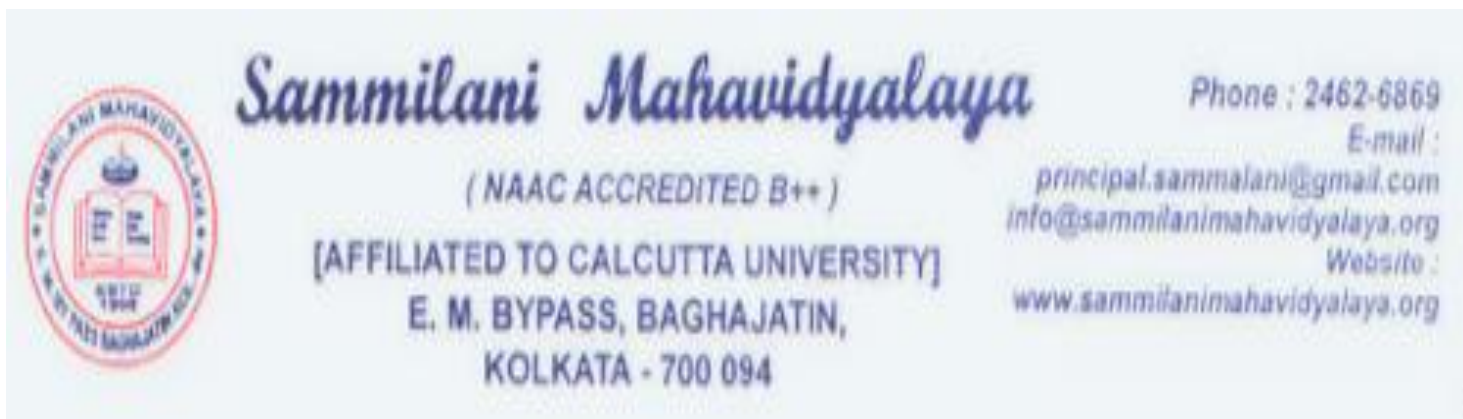**Registration No.:   444-1111-1576-17**

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B.Sc. Semester – VI (Honours) Examination-2021(CBCS)

Department of Computer Science

Sammilani Mahavidyalaya, Baghajatin, E.M. Bypass, Kolkata - 700094

Year - 2021

This is to certify that the project work "website design on Covid-19 tracker" is a bonafide work carried out by Prodeepta Bera , a student of B.Sc. CMSA, 6th Semester from Sammilani Mahavidyalaya and registered under Calcutta University (Reg. no 444-1111-1576-17 and Roll No. 183444-21-0166) , in partial fulfillment of the degree of Bachelor of Science on Computer Science (Hons.).
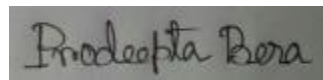
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Abstract

On March 11, 2020 the World Health Organization has declared the outbreak of the novel Coronavirus (SARS-CoV-2) also known as Covid-19 as pandemic across the world. With its alarming surge of affected cases throughout the world, lockdown, and awareness (social distancing, use of masks etc.) among people are found to be the only means for restricting the community transmission. In a densely populated, developing country like India, where internet is available to almost every person spread of wrong information can be very easy. This paper mainly focuses on delivering the right information about Corona virus spread in India as well as in the World on a webpage accessible from any device(Smartphone, Laptop, Desktop).This includes daily new covid cases, deaths, recovery, covid symptoms, covid precautions, covid care. It uses API's from government or healthcare organization for gathering data. Therefore, this project can be used as a tool for creating further social awareness about the arising need of precautionary measures to be taken by the people of India.

Finally, the project was concluded with the scope for further work which could be done to achieve even better results.

Table of Contents

1. Introduction

1.1 Domain Description

This is a webpage based project developed with HTML5, CSS3, Bootstrap 4.6, Javascript, PHP & MySQL. It is light, easily accessible and can run on all major browsers and on any device, be it Laptop, Desktop, Tablet or Smartphone. Unlike an application, it doesn't occupy any memory of the device.

For these reasons it can be available to a large number of people.

1.2 Motivation

The unprecedented spread of COVID-19 has the world scrambling to navigate a new normal. The World Health Organization (WHO) has underscored the importance of identifying COVID-19 cases and isolating them before they spread. Testing and tracing is vital to this effort, and all individuals in contact with an infected individual must be identified to mitigate further spread of the virus. Web application technology offers a powerful solution to facilitate the collection of data about user movements and points of contact. To defeat COVID-19 there must be a robust and effective track and trace app that can reliably provide the data needed to stop the spread.

1.3 Scope of work

Covitracker tracks the Covid-19 (SARS-CoV-2) cases, showing the data analysis on recovered cases, deaths, active cases in India and all other countries in the world. We also included a new program called "Covi-care" to help people, suffering from corona virus and the elderly persons with the help of local volunteers. In this project we didn't included the vaccination center search option and doctor's consultation. But in future these features will also be included.

2. Review of Related Work

Currently there exists many websites like this project. "[1] COVID-19 Tracker" By - Abhijit Show, Sayan Guha Roy, Sourav Ghosh, published on 6 July 2020 and "[2] Development of An Android Application for Viewing Covid-19 Containment Zones and Monitoring Violators Who are Trespassing into It Using Firebase and Geofencing" By - Ranajoy Mallik,corresponding author Amlan Protim Hazarika, Sudarshana Ghosh Dastidar, Dilip Sing, and Rajib Bandyopadhyay, published on 1 July 2020.

These works are related to my work, but in their work they only focused on covid positive number tracking [1] and marking the containment zones [2]. If they provide information about daily covid cases, daily deaths and recovery numbers then that information would make people think about the situation we are in. Many other applications do not provides proper data that a normal user needs.

3. Methodology

3.1 Problem Statement

- In this work all covid related data are shown individually e.g. state wise (for India) and world data including all countries data.
- In this work user can avail covid care option to get help with medical services.

3.2 SRS Document

3.2.1 Category

This is a website built using HTML5, CSS3, Bootstrap 4.6, scripting languages (PHP, Javascript) and MySQL.

It is light, easily accessible and can run on all major browsers and on any device, be it Laptop, Desktop, Tablet or Smartphone. Unlike an application, it doesn't occupy any memory of the device.

Since it is a website it doesn't matter what OS your device has it can run in all of them.

3.2.2 Purpose

The purpose of the software is to give many features in a single one. This helps the user to provide covid related details in their hand.

3.2.3 Scope

Covitracker tracks the Covid-19 (SARS-CoV-2) cases, showing the data analysis on recovered cases, deaths, active cases in India and all other countries in the world. We also included a new program called "Covi-care" to help people, suffering from corona virus and the elderly persons with the help of local volunteers. In this project we didn't included the vaccination center search option, symptom tracker, doctor's consultation, email notification. But in future these features will also be included.

3.2.4 Software Tools

In this project we have used HTML5 (Hyper Text Markup Language version 5), CSS3 (Cascading Style Sheet version 3), Bootstrap (CSS library) version 4.6, Javascript (Scripting Language), PHP (Scripting Language), MySQL (database), Sublime text editor (version 4), XAMPP Server, Brave Borwser.

3.2.5 Development

To use this website we need Internet connection, a computer device or smart phone.

3.2.6 Hardware Specification

To develop this software, I used these following hardware:

Ram: 4gb

Processor: Intel CORE Duo.

Hard Disk: 256gb

OS: Windows 7 Home Premium.

3.3 Method Description

Method Covid Status

Step 1: Read choice

Step 2: If choice = India then

Call Indian Data

Else if choice = World then

Call World Data

Step 3: Display confirmed Cases

Step 4: Display Active Cases

Step 5: Display Recovered Cases

Step 6: Display Death Cases

Step 7: Display Last Updated Time

Method State Data

Step 1: Display all states of India

Step 2: Display confirmed Cases

Step 3: Display Active Cases

Step 4: Display Recovered Cases

Step 5: Display Death Cases

Step 6: Display Last Updated Time

Method World Data

Step 1: Display confirmed Cases (Country wise)

Step 2: Display Active Cases

Step 3: Display Recovered Cases

Step 4: Display Death Cases

Step 5: Display Last Updated Time

Step 6: Display

Method Covicare

Step 1: Enter your name

Step 2: Enter your email
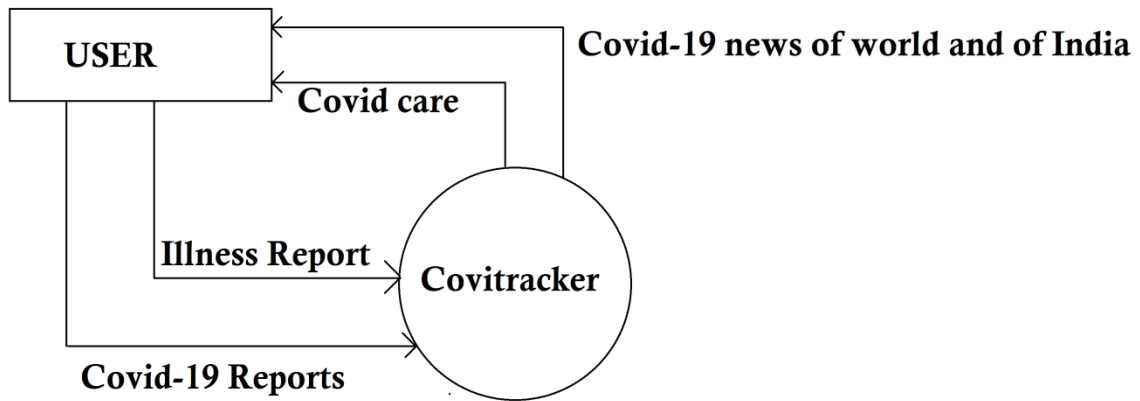
Step 3: Enter your phone number

Step 4: Enter your address
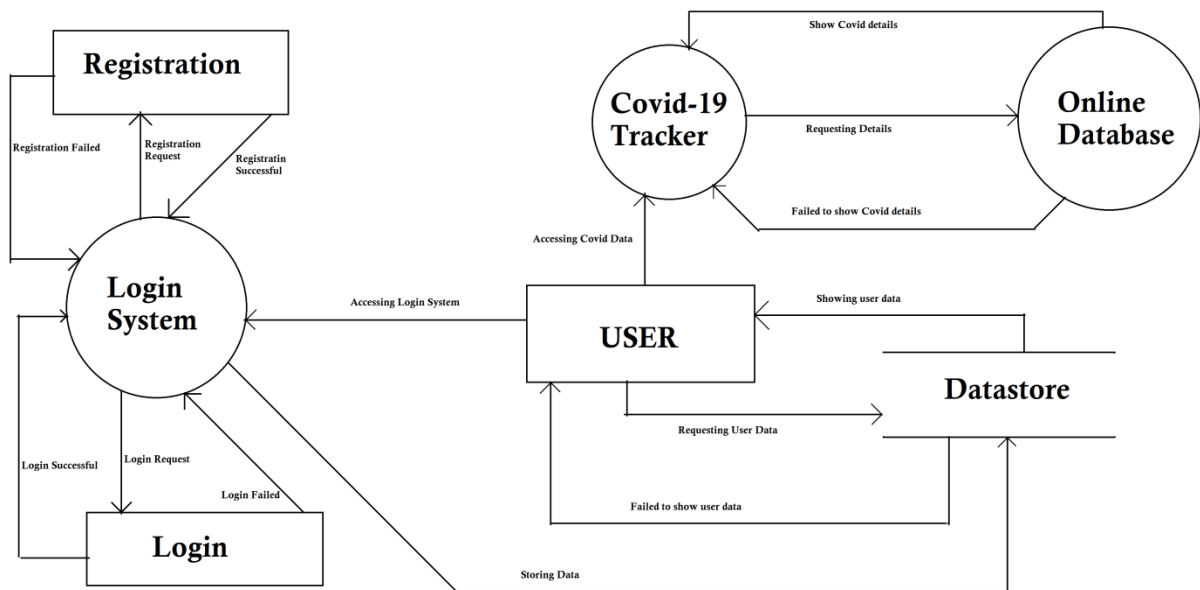
Step 5: Enter your Symptoms

Step 6: Describe your illness

Step 7: Submit

3.4 Design Description

Level – 0 DFD

Level – 1 DFD

4. Implementation

4.1 Navigation bar

```
<div class="top_view" id="home">

<!-- ----------------------------------------- Nav Bar START ----------------------------------------- -->

   <nav class="navbar navbar-expand-lg fixed-top navbar-dark">

     <div class="container-fluid">

         <a class="navbar-brand font-weight-bold text-white d-flex align-middle"
href="#hero">Covitracker</a>

         <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false"
aria-label="Toggle navigation"> <span class="navbar-toggler-icon"></span>

         </button>

         <div class="collapse navbar-collapse" id="navbarSupportedContent">

           <ul class="navbar-nav mb-2 mb-lg-0 ml-auto mr-lg-5 mr-md-4 mr-0 text-center">

             <li class="nav-item font-weight-bold h5">

                 <a class="nav-link active" aria-current="page" href="#hero">Home</a>

             </li>

             <li class="nav-item font-weight-bold h5">

                 <a class="nav-link" href="login.php">About Covid-19</a>

             </li>

             <li class="nav-item font-weight-bold h5">

                 <a class="nav-link" href="world.php">World</a>

             </li>

             <li class="nav-item font-weight-bold h5">

                 <a class="nav-link" href="india.php">India</a>
```

```
        </li>

        <li class="nav-item dropdown font-weight-bold h5 mr-lg-3 mr-md-3 mr-0">

            <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
            data-toggle="dropdown" aria-haspopup="true" aria-expanded="false"><i class="far fa-
            user-circle text-warning"></i></a>

            <div class="dropdown-menu" aria-labelledby="navbarDropdown">

                <a class="dropdown-item" href="login.php">Log In</a>

                <a class="dropdown-item" href="registration.php">Registration</a>

            </div>

        </li>

    </ul>

    </div>

  </div>

</nav>

<!-- ---------------------------------------- Nav Bar END ---------------------------------------- -->
```

4.2 About section

```
    <div class="container-fluid py-5" id="about">

        <div class="Section_heading text-center mb-3 mt-5">

            <h1> <u>About Covid-19</u></h1>

        </div>

        <div class="container-fluid">

            <div class="row mt-5">

                <div class="col-lg-6 col-md-6 col-12 p-5">

                    <img src="images/cs1.jpg" alt="what is corona
                    virus."      class="img-fluid      border      shadow
                    rounded">
```

```
</div>

<div class="col-lg-6 col-md-6 col-12 pt-4 pb-2 px-3 shadow
border rounded-lg">

        <h2> What is Covid-19 ( Corona Virus ) ? </h2><br>

        <p>Coronaviruses are a group of related RNA viruses
        that cause diseases in mammals and birds. In
        humans and birds, they cause respiratory tract
        infections that can range from mild to lethal. Mild
        illnesses in humans include some cases of the
        common cold (which is also caused by other viruses,
        predominantly rhinoviruses), while more lethal
        varieties can cause SARS, MERS, and COVID-19.</p>

        <p> In cows and pigs they cause diarrhea, while in
        mice they cause hepatitis and encephalomyelitis.
        There are many different kinds, and some cause
        disease. A coronavirus identified in 2019, SARS-CoV-
        2, has caused a pandemic of respiratory illness,
        called COVID-19.</p>

        <button class="btn btn-warning rounded-pill"><a
        href="login.php" class="text-decoration-none text-
        dark">Read more</a></button>

    </div>

</div>

</div>
```

4.3 World Section

```
<section class="covid_update container-fluid mb-2 py-5 h-100 w-100
text-white" id="world">

    <div class="Section_heading text-center my-5">
```

```html
        <h1        class="font-weight-bold">        <u>World
        Updates</u></h1>

    </div>

    <div class="container text-center py--5">

        <div class="row">

            <div class="col-lg-4 col-md-4 col-12 py--3 ">

                <h2 id="tcnf"></h2>

                <h4    class="py-4    font-weight-bold">Total
                Confirmed Cases</h4>

            </div>

            <div class="col-lg-4 col-md-4 col-12 py--3">

                <h2 id="trec"></h2>

                <h4    class="py-4    font-weight-bold">Total
                Recorverd</h4>

            </div>

            <div class="col-lg-4 col-md-4 col-12 py--3">

                <h2 id="td"></h2>

                <h4    class="py-4    font-weight-bold">Total
                Deaths</h4>

            </div>

            <div class="col-lg-12 col-md-12 col-12 my-5 pt-5">

                <a  href="world.php"  class="py-3  font-weight-
                bold    text-decoration-none    w_button">See
                Country Wise Report</a>

            </div>
```

```
                </div>

            </div>

        </section>
```

4.4 India Section

```
<section class="covid_update container-fluid py-5 h-100 w-100 text-
white" id="india">

    <div class="Section_heading text-center mb-5 pt-5">

        <h1        class="font-weight-bold">        <u>India
        Updates</u></h1>

    </div>

    <div class="container text-center py-5">

        <div class="row">

            <div class="col-lg-3 col-md-3 col-12 py-3">

                <h2 id="itcnf"></h2>

                <h4    class="py-5    font-weight-bold">Total
                Confirmed Cases</h4>

            </div>

            <div class="col-lg-3 col-md-3 col-12 py-3">

                <h2 id="itrec"></h2>

                <h4    class="py-5    font-weight-bold">Total
                Recorverd</h4>

            </div>

            <div class="col-lg-3 col-md-3 col-12 py-3">

                <h2 id="itd"></h2>
```

```html
<h4     class="py-5     font-weight-bold">Total
Deaths</h4>

</div>

<div class="col-lg-3 col-md-3 col-12 py-3">

<h2 id="iac"></h2>

<h4     class="py-5     font-weight-bold">Active
Cases</h4>

</div>

<div class="col-lg-12 col-md-12 col-12 my-5 pt-3">

<a  href="india.php"  class="  py-3  font-weight-
bold text-decoration-none i_button">See State
Wise Report</a>

</div>

</div>

</div>

</section>
```

4.5 Footer

```html
<footer class="footer bg-dark">

<div class="container-fluid">

<div class="row">

<div class="col-lg-3 col-md-3 col-12 pt-4 pl-4 border-
right">

<div class="footer_heading mb-4">

<h4          class="text-center">Contact
Us</h4>
```

```html
<hr>

</div>

<div class="row text-center text-white">

        <div class="col-lg-12 col-md-12 col-12
        pb-1 cpi">

                <i class="fas fa-envelope fa-
                2x"></i>

        </div>

        <div class="col-lg-12 col-md-12 col-12
        pb-1 cp_text">

                17/1, Sreenagar Main road,
                Kolkata - 700094

        </div>

        <div class="col-lg-12 col-md-12 col-12
        pb-1 cpi">

                <i class="fas fa-phone-alt fa-
                2x"></i>

        </div>

        <div class="col-lg-12 col-md-12 col-12
        pb-1 cp_text">

                +91 0123456789

        </div>

        <div class="col-lg-12 col-md-12 col-12
        pb-1 cpi">

                <i class="fas fa-at fa-2x"></i>

        </div>
```

```html
                    <div class="col-lg-12 col-md-12 col-12
                    pb-1 cp_text">

                            newscovid19@xyz.com

                    </div>

            </div>

    </div>

    <div class="col-lg-6 col-md-6 col-12 pt-4 border-
    right">

            <div class="footer_heading mb-4">

                    <h4          class="text-center">Useful
                    Links</h4>

                    <hr>

            </div>

            <p>

                    <div class="row px-2 pt-4">

                            <div class="col-lg-6 col-md-6 col-12
                            d-flex link_text">

                                    <i class="fas fa-arrow-circle-
                                    right          pr-2"></i><p
                                    class=""><a
                                    href="https://www.cowin.go
                                    v.in/" target="blank">  Co-
                                    WIN</a></p>

                            </div>

                            <div class="col-lg-6 col-md-6 col-12
                            d-flex link_text">
```

```html
<i class="fas fa-arrow-circle-right pr-2"></i><p class=""><a href="https://covid19.india.gov.in/" target="blank"> Covid-19 Internal Ministry Notification </a></p>
</div>

<div class="col-lg-6 col-md-6 col-12 d-flex link_text">
    <i class="fas fa-arrow-circle-right pr-2"></i><p class=""><a href="https://www.mohfw.gov.in/" target="blank"> Ministry of Health and Family Welfare</a></p>
</div>

<div class="col-lg-6 col-md-6 col-12 d-flex link_text">
    <i class="fas fa-arrow-circle-right pr-2"></i><p class=""><a href="https://covidwarriors.gov.in/" target="blank"> COVID Warriors</a></p>
</div>

<div class="col-lg-6 col-md-6 col-12 d-flex link_text">
```

```html
            <i class="fas fa-arrow-
circle-right       pr-2"></i><p
class=""><a
href="https://covidwarriors.g
ov.in/"        target="blank">
Download    Aarogya    Setu
Mobile App</a></p>

</div>

<div class="col-lg-6 col-md-6 col-12
d-flex link_text">

            <i class="fas fa-arrow-circle-
right              pr-2"></i><p
class=""><a
href="https://www.un.org/e
n"   target="blank">   United
Nations</a></p>

</div>

<div class="col-lg-6 col-md-6 col-12
d-flex link_text">

            <i class="fas fa-arrow-circle-
right              pr-2"></i><p
class=""><a
href="https://www.who.int/
"    target="blank">    World
Health Organization</a></p>

</div>

<div class="col-lg-6 col-md-6 col-12
d-flex link_text">

            <i class="fas fa-arrow-circle-
right              pr-2"></i><p
```

```html
                                class=""><a
                                href="https://www.who.int/
                                " target="blank"> Indian
                                Covid update API</a></p>

                        </div>

                </div>

        </p>

</div>

<div class="col-lg-3 col-md-3 col-12 pt-4">

        <div class="footer_heading mb-4">

                <h4      class="text-center">Join      our
                NewsLetter</h4>

                <hr>

        </div>

        <div class="row pt-4">

                <div  class="col-lg-12  col-md-12  col-12
                mb-4">

                        <form action="">

                                <div class="row text-center">

                                        <div  class="form-group
                                        col-lg-12 col-md-12 col-
                                        12">
                                                <input
                                        type="email"
                                        class="form-control
                                        rounded-pill"
                                        id="nl_email"
```

```html
                    placeholder="     Enter
                    email">

                    </div>

                    <div     class="col-lg-12
                    col-md-12 col-12">

                              <button
                              class="btn     btn-
                              warning     font-
                              weight-bold
                              rounded-pill     "
                              type="submit">S
                              ubscribe</button
                              >

                         </div>

                 </div>

         </form>

</div>

<div class="col-lg-12 col-md-12 col-12 d-
flex   justify-content-center   align-items-
center mb-4">

         <i class="fab fa-facebook pr-2 fa-2x
         s_icons"        data-toggle="tooltip"
         data-placement="left"
         title="facebook"></i>

         <i  class="fab  fa-twitter  pr-2  fa-2x
         s_icons"        data-toggle="tooltip"
         data-placement="top"
         title="twitter"></i>
```

```
                                        <i class="fab fa-instagram pr-2 fa-
                                        2x  s_icons"  data-toggle="tooltip"
                                        data-placement="down"
                                        title="instagram"></i>

                                        <i class="fab fa-youtube pr-2 fa-2x
                                        s_icons"      data-toggle="tooltip"
                                        data-placement="right"
                                        title="youtube"></i>

                          </div>

                    </div>

              </div>

              <div class="col-lg-12 col-md-12 col-12 p-4 border-
              top">

              <iframe
              src="https://www.google.com/maps/embed?pb=!1
              m18!1m12!1m3!1d793.2970445263315!2d88.40453
              61292056!3d22.472232299077152!2m3!1f0!2f0!3f0
              !3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x3a0273d4
              5ef56c7b%3A0x623080d6f28ab59d!2s76%2C%20Dh
              alua%2C%20Panchpota%2C%20Kolkata%2C%20Wes
              t%20Bengal%20700094!5e1!3m2!1sen!2sin!4v16267
              65208158!5m2!1sen!2sin"           width="100%"
              height="auto"  style="border:0;"  allowfullscreen=""
              loading="lazy"></iframe>

              </div>

        </div>

    </div>

</footer>
```

5. Result & Discussion

5.1 Results

5.1.1 Landing page
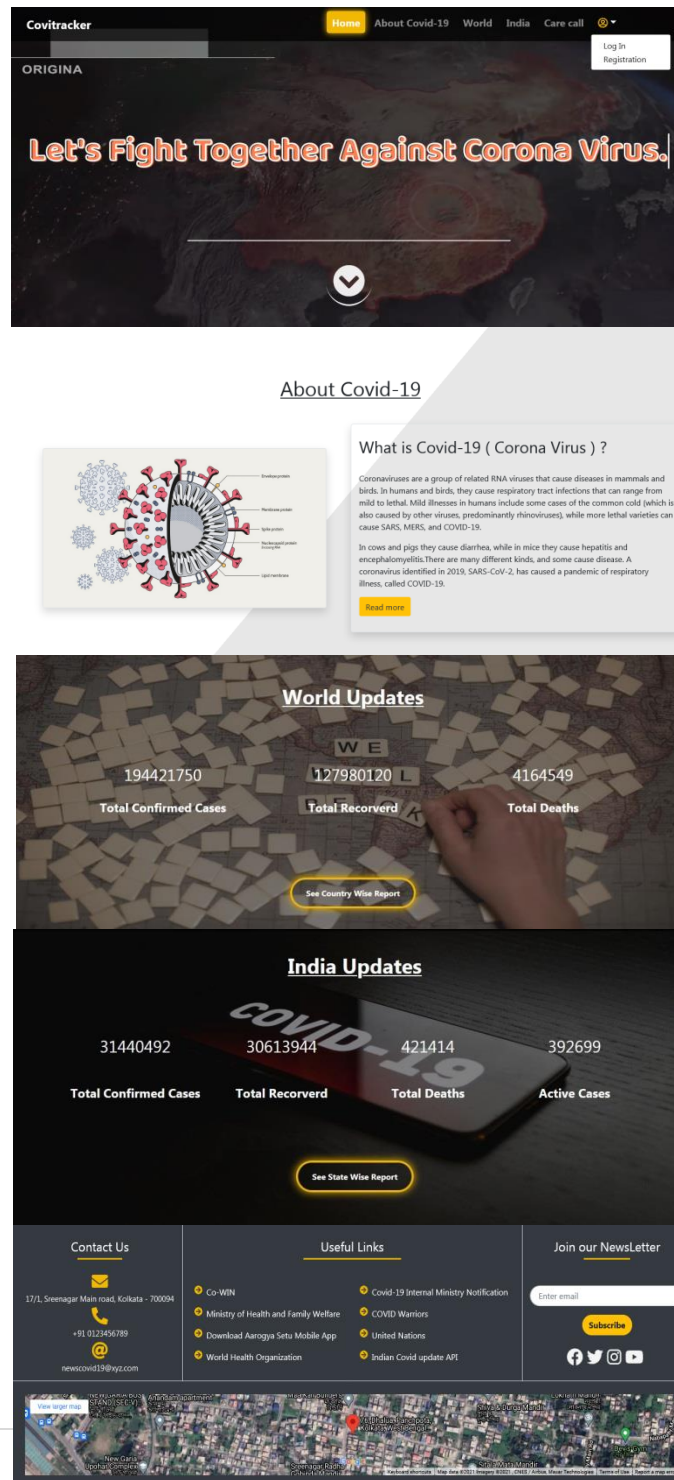
5.1.2 Home Page
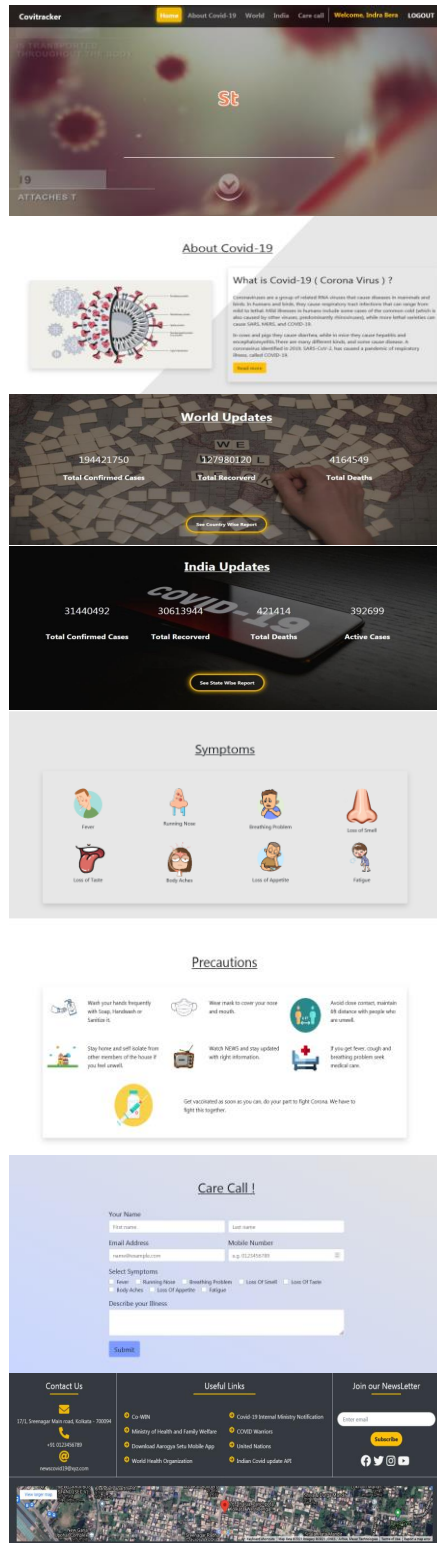
5.1.3 Registration Page

Register Yourself

Your Name

First name | Last name

Email Address | Mobile Number

abc@xyz.com | e.g. 0123456789

Your address

Password | Confirm Password

******** | ********

Submit | Home.

Have an account ? Login here.

5.1.4 Login Page

Log in

Email

abc@xyz.com

Password

****

Forgot Password ? Click here.

Log in | Home.

Don't have an account ? Register First.

5.1.5 World Page
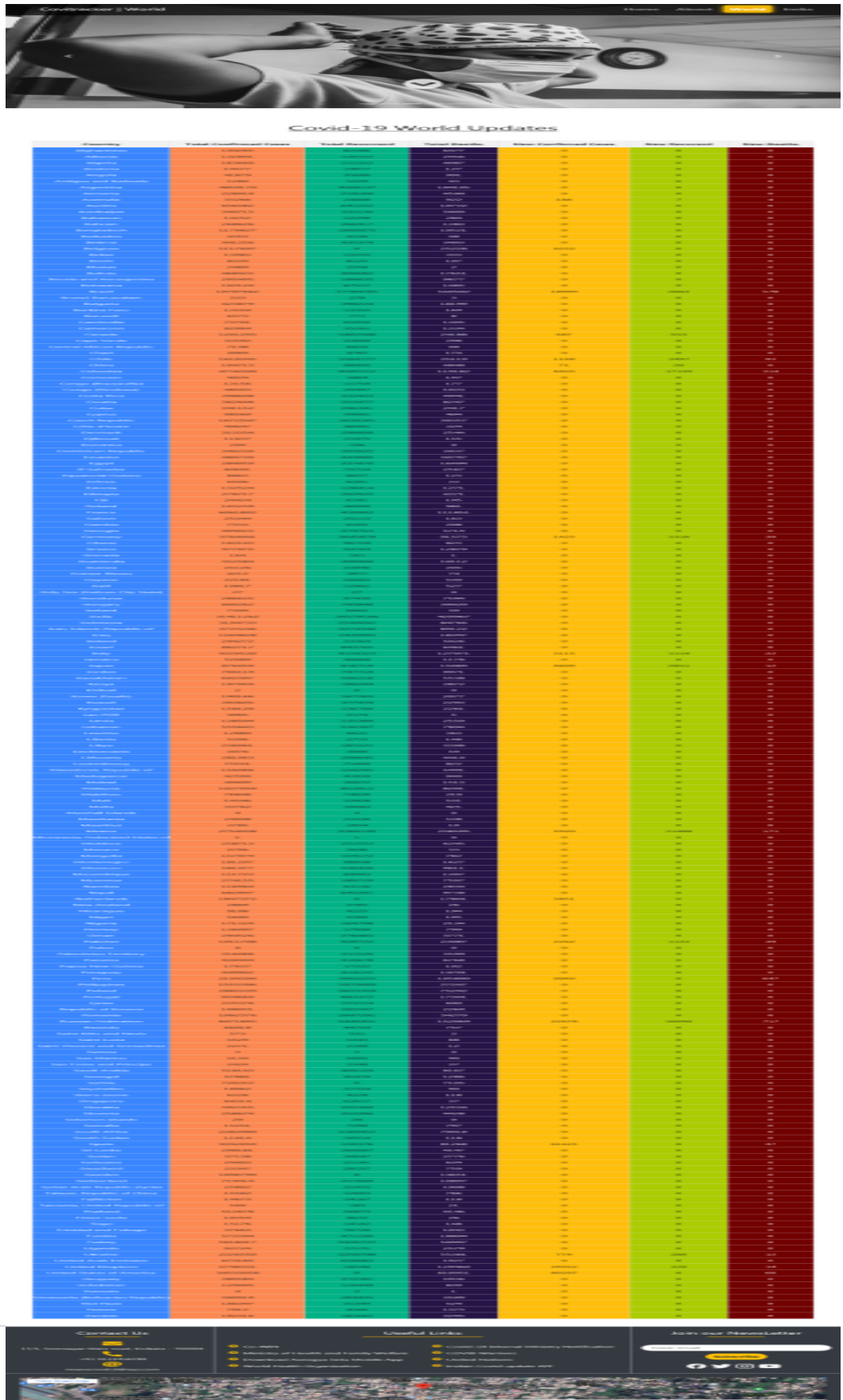
5.1.6 India Page

Covid-19 India Updates - State wise

State	Active Cases	Total Confirmed Cases	Total Recorverd	Total Deaths	Last Updated
Andaman and Nicobar Islands	14	7530	7387	129	26/07/2021 21:12:41
Andhra Pradesh	21748	1956392	1921371	13273	26/07/2021 19:05:40
Arunachal Pradesh	4319	46357	41820	218	27/07/2021 01:21:57
Assam	13582	560019	539928	5162	26/07/2021 21:34:42
Bihar	474	724529	714415	9639	26/07/2021 21:12:43
Chandigarh	36	61931	61086	809	26/07/2021 19:36:02
Chhattisgarh	2518	1001359	985324	13517	27/07/2021 01:33:41
Dadra and Nagar Haveli and Daman and Diu	45	10640	10560	4	26/07/2021 18:49:45
Delhi	537	1435949	1410368	25044	26/07/2021 19:09:40
Goa	1137	170581	166308	3136	26/07/2021 18:49:47
Gujarat	312	824744	814356	10076	26/07/2021 20:18:43
Haryana	711	769770	759437	9622	26/07/2021 20:30:39
Himachal Pradesh	858	205200	200824	3500	26/07/2021 20:00:46
Jammu and Kashmir	1200	320759	315184	4375	26/07/2021 18:49:49
Jharkhand	246	346983	341613	5124	27/07/2021 01:33:44
Karnataka	23057	2896163	2836678	36405	26/07/2021 19:46:45
Kerala	136814	3283116	3129628	16171	26/07/2021 21:24:47
Ladakh	70	20309	20032	207	27/07/2021 11:12:49
Lakshadweep	82	10141	9970	49	26/07/2021 20:53:40
Madhya Pradesh	140	791756	781104	10512	26/07/2021 19:46:47
Maharashtra	88729	6269799	6046106	131605	26/07/2021 23:08:45
Manipur	10524	93656	81645	1487	26/07/2021 19:05:45
Meghalaya	5084	61763	55648	1031	26/07/2021 18:49:53
Mizoram	9404	33452	23911	137	26/07/2021 23:08:47
Nagaland	1256	27362	24793	545	26/07/2021 20:03:46
Odisha	16177	969185	947381	5627	26/07/2021 21:34:52
Puducherry	909	120417	117718	1790	26/07/2021 18:46:30
Punjab	637	598840	581925	16278	26/07/2021 20:53:41
Rajasthan	298	953560	944310	8952	26/07/2021 19:09:42
Sikkim	2970	25339	21771	331	26/07/2021 18:46:33
State Unassigned	0	0	0	0	19/07/2020 09:40:01
Tamil Nadu	22762	2550282	2493583	33937	26/07/2021 20:03:48
Telangana	9325	641791	628679	3787	26/07/2021 20:30:42
Tripura	3663	76536	72069	741	26/07/2021 18:27:51
Uttar Pradesh	857	1708208	1684601	22750	26/07/2021 23:19:45
Uttarakhand	638	341778	327766	7359	26/07/2021 19:37:00
West Bengal	11566	1524296	1494645	18085	26/07/2021 19:05:51

5.1.7 Databases

5.2 Discussion

In this website we can easily use any feature by selecting any option of the navigation bar. The covid-19 tracker easily shows data of the whole India as well as state wise and the world as whole and country wise.

User can ask for covid care very easily just by filing up the given form and submitting it.

User can also create their account.

They can easily contact us with the given contact information.

6. Conclusion

In this project I made a website which provides Covid-19 related Information along with volunteer health care services and other helps.

Covid tracker tracks the Covid-19 (SARS-CoV-2) cases, showing the data analysis on recovered cases, deaths, active cases in India and all other countries in the world. We also included a new program called "Covi-care" to help people, suffering from corona virus and the elderly persons with the help of local volunteers. In this project we didn't included the vaccination center search option and doctor's

consultation, Covid symptom analyzer, email support. But in future these features will also be included.

7. References

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API

[5] https://api.covid19api.com/summary

[6] https://api.covid19india.org/data.json