

Covid Stats | Risk Predictor

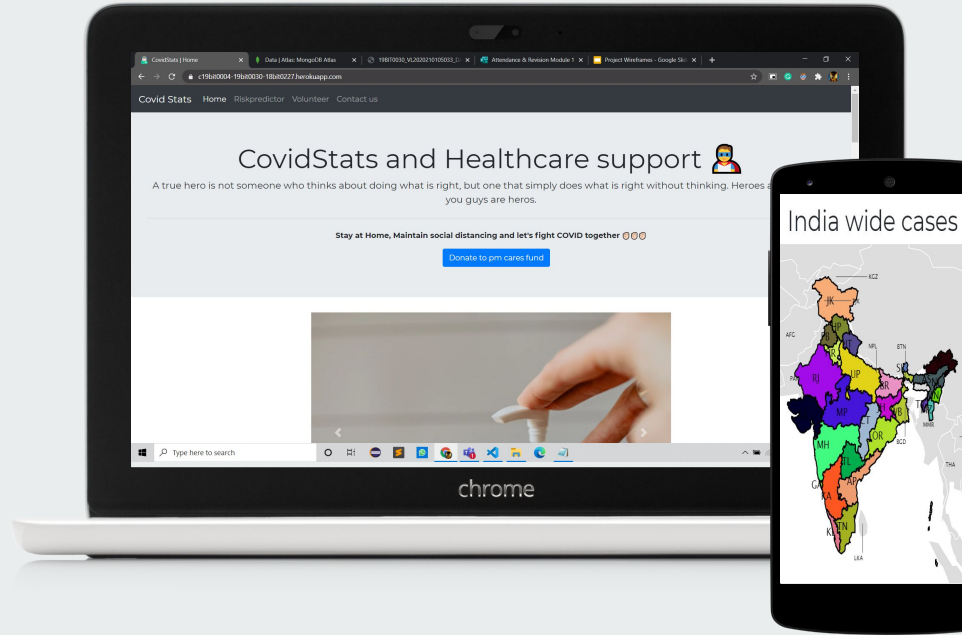
19BIT0030
19BIT0004
18BIT0227

Github repo:

<https://github.com/kvssankar/covid19>

Website link:

<https://c19bit0004-19bit0030-18bit0227.herokuapp.com/>



FACULTY : MAREESWARI V

Outline

[The Problem](#)

[Solution Proposal](#)

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[Volunteer form](#)

[Contact us](#)



The Problem

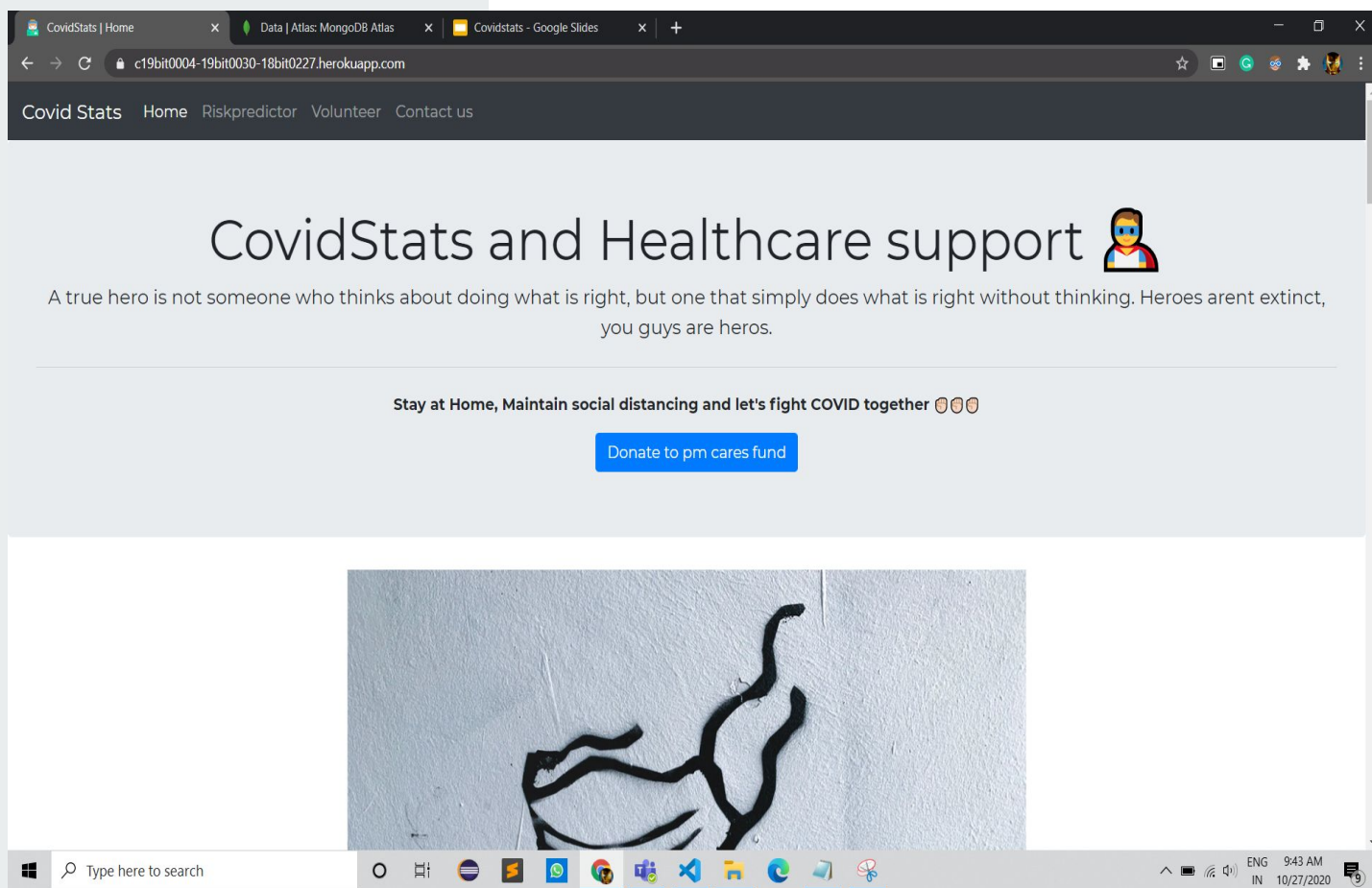


Problem statement

The whole world is now going through times. The number of covid-19 cases are increasing day by day and in India alone we are recording about 80K – 90K cases daily, and the wait for the vaccine still continues. We are a team of 3, and we have come up with a website that gives the visitor the status of covid-19 in India. It tells the number of Confirmed, Active and cured covid-19 cases state wise. This is represented through maps and tables. It also provides precautionary measures on how you can prevent you be safe in this situation and also some major symptoms of coronavirus. In this lockdown situation it is very tough for people to visit clinics if they are ill. So, we are providing a self-assessment check, where the user if he is facing some symptoms can come to know the infection/disease he might be facing. We are providing self assessment form. Due to this situation many organizations and government is in need of donations and volunteers who are ready to dedicate their service to protect the public and are willing to donate funds. So, we are gathering information of such individuals through our Volunteer page and provided a link to donate to the PM fund.

Home page 01

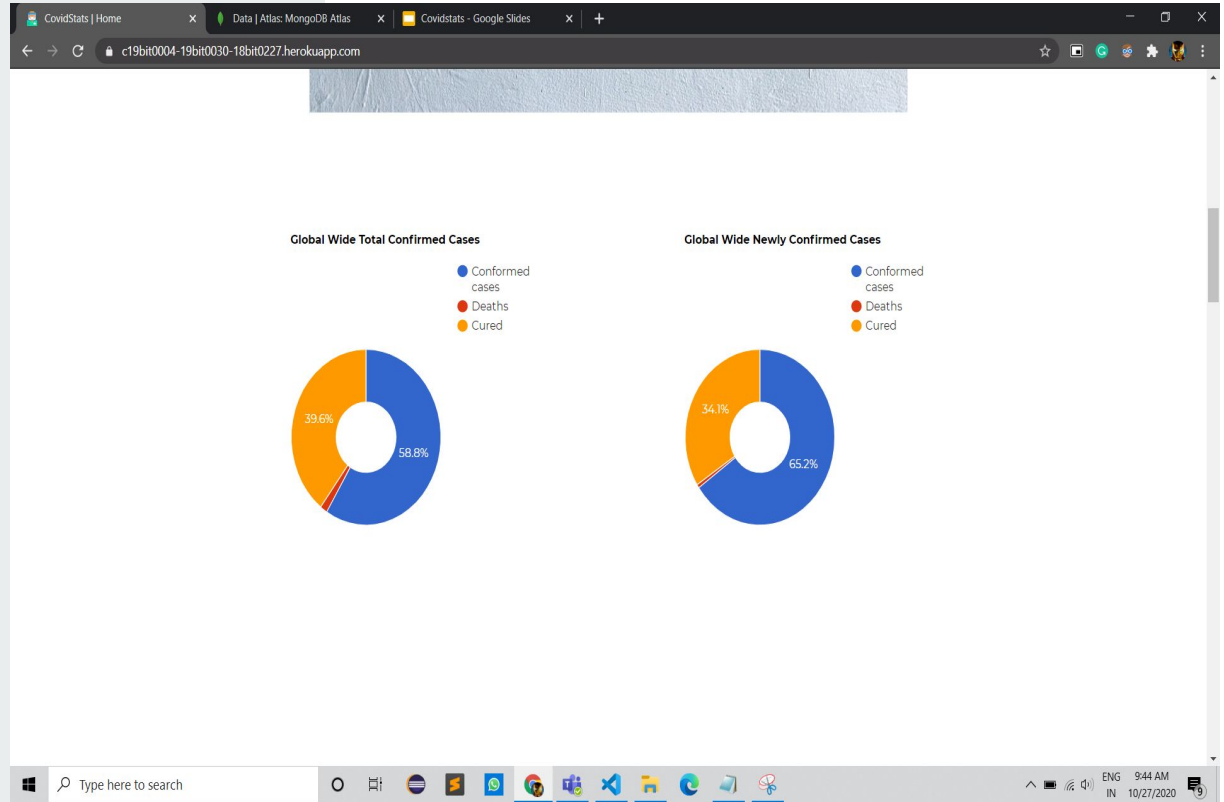
A warm positivity filled welcome with simple and sleek design. Added an option to donate to pm cares fund.



Global cases

02

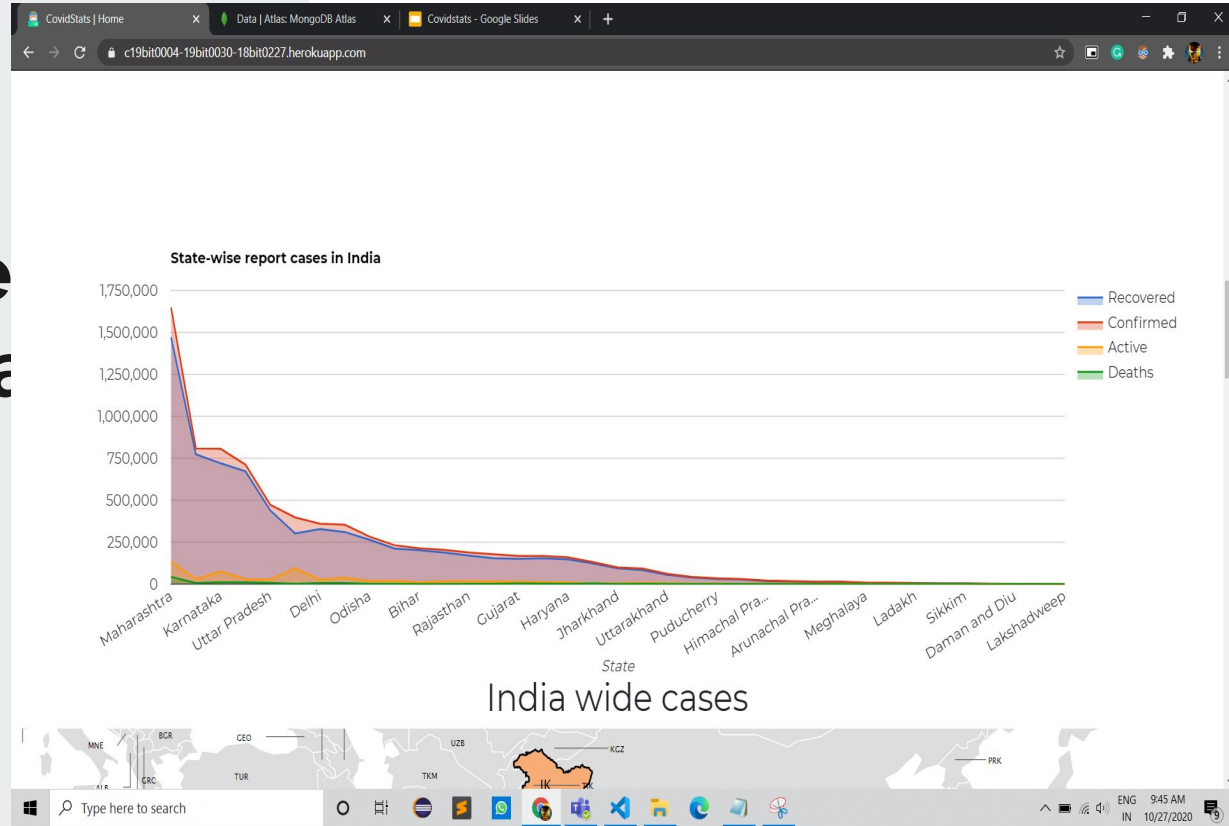
A pie charts showing whole stats globally



State wise re cases in India

03

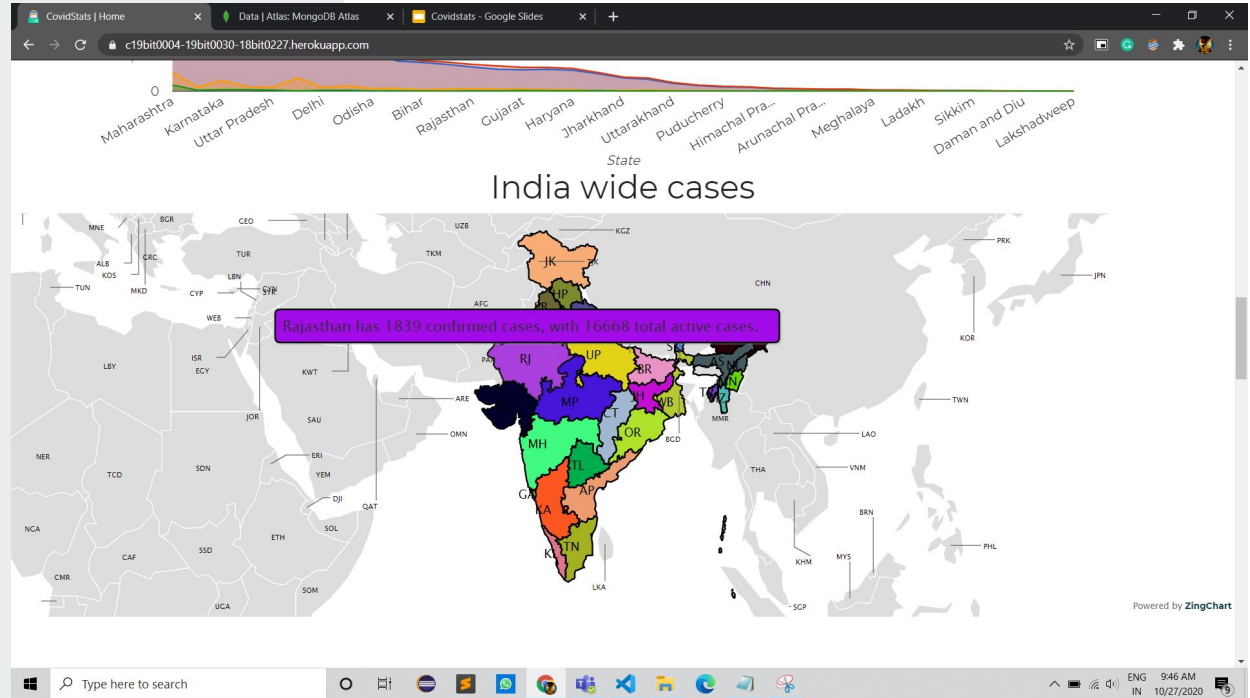
No of cured, confirmed and
active cases in line graph



India wide cases in india map

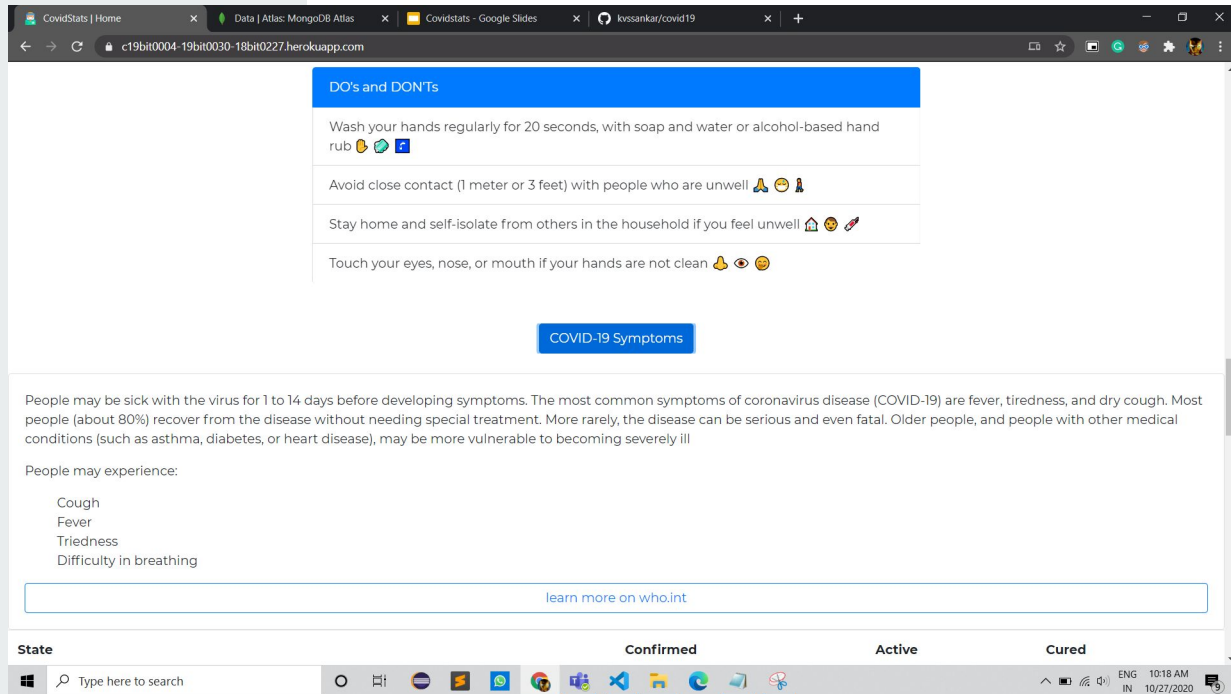
04

Visualize Cases in India map



Know to main info on covid 05

Know the symptoms and
maintain social distancing
and hygiene



The screenshot shows a web browser with multiple tabs open: 'CovidStats | Home', 'Data | Atlas: MongoDB Atlas', 'Covidstats - Google Slides', and 'kvssankar/covid19'. The address bar shows the URL 'c19bit0004-19bit0030-18bit0227.herokuapp.com'. The main content area features a blue header 'DO's and DON'Ts' with four items: 'Wash your hands regularly for 20 seconds, with soap and water or alcohol-based hand rub', 'Avoid close contact (1 meter or 3 feet) with people who are unwell', 'Stay home and self-isolate from others in the household if you feel unwell', and 'Touch your eyes, nose, or mouth if your hands are not clean'. Below this is a blue button labeled 'COVID-19 Symptoms'. A paragraph of text explains that people may be sick with the virus for 1 to 14 days before developing symptoms, and lists common symptoms: fever, tiredness, and dry cough. It also notes that older people and those with other medical conditions may be more vulnerable. A list of symptoms people may experience includes Cough, Fever, Tiredness, and Difficulty in breathing. At the bottom, there is a search bar with the text 'learn more on who.int'. The browser's status bar at the bottom shows the 'State' tab, a search bar with 'Type here to search', and a taskbar with various application icons. The system tray on the right shows the date and time as '10:18 AM 10/27/2020' and the language as 'ENG IN'.

COVID-19 Symptoms

People may be sick with the virus for 1 to 14 days before developing symptoms. The most common symptoms of coronavirus disease (COVID-19) are fever, tiredness, and dry cough. Most people (about 80%) recover from the disease without needing special treatment. More rarely, the disease can be serious and even fatal. Older people, and people with other medical conditions (such as asthma, diabetes, or heart disease), may be more vulnerable to becoming severely ill

People may experience:

- Cough
- Fever
- Tiredness
- Difficulty in breathing

[learn more on who.int](#)

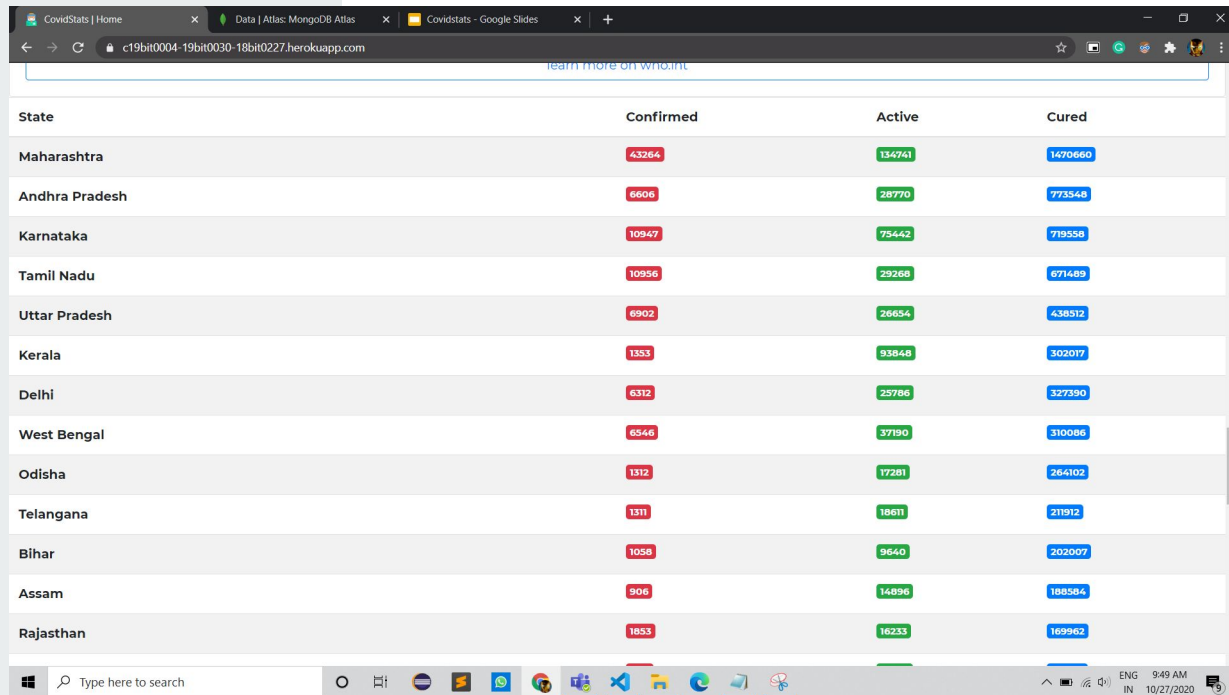
State Confirmed Active Cured

Type here to search

10:18 AM 10/27/2020 ENG IN

Chart state wise 06

More easier way to check
stats



State	Confirmed	Active	Cured
Maharashtra	43264	134741	1470660
Andhra Pradesh	6606	28770	773548
Karnataka	10947	75442	719558
Tamil Nadu	10956	29268	671489
Uttar Pradesh	6902	26654	438512
Kerala	1353	93848	302017
Delhi	6312	25786	327390
West Bengal	6546	37190	310086
Odisha	1312	17281	264102
Telangana	1311	18611	211912
Bihar	1058	9640	202007
Assam	906	14896	188504
Rajasthan	1853	16233	169962

Risk Predictor 07

Self assessment form

The screenshot shows a web browser window with the URL `c19bit0004-19bit0030-18bit0227.herokuapp.com/riskpredictor`. The page is titled "Risk Predictor" and contains a self-assessment form for COVID-19 risk.

Symptoms

tiredness, sore throat, a rash on skin, or discolouration of fingers or toes, difficulty breathing or shortness of breath

fever

dry cough

tiredness ✓

aches and pains ✓

sore throat ✓

diarrhoea

headache

loss of taste or smell

a rash on skin, or discolouration of fingers or toes ✓

difficulty breathing or shortness of breath ✓

chest pain

submit

Score	Risk
1-4	Low
5-9	Medium
9-14	High

Volunteer form 08

A volunteer sign up form to
help the community

Covid Stats | Volunteer Sign Up x Data | Atlas: MongoDB Atlas x Covidstats - Google Slides x How to Find the Sum of an Array x Live Demo: Find the Sum of Val... x

c19bit0004-19bit0030-18bit0227.herokuapp.com/volunteer

Covid Stats Home Riskpredictor Volunteer Contact us

Volunteer Signup

The HELP Group is seeking volunteers to serve our community. Fill in the information below to indicate how you would like to become involved.

Name*

Email Address*

Phone*

Street*

City*

State*

Zip*

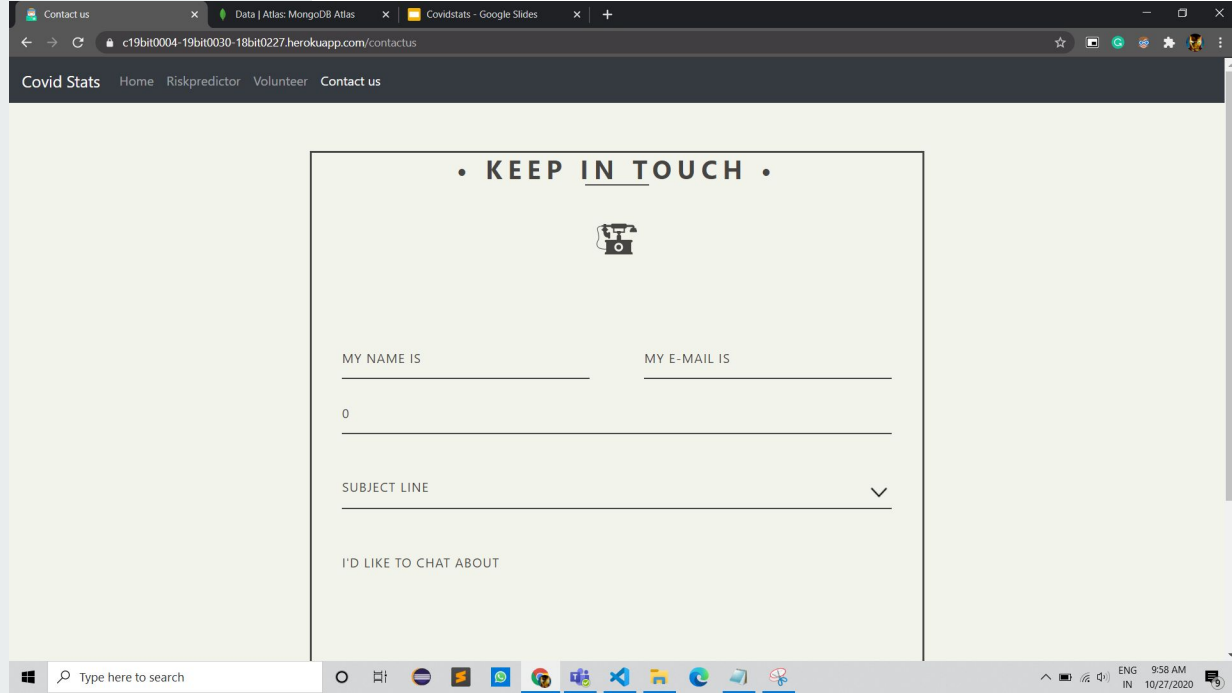
Type here to search

ENG 9:57 AM
IN 10/27/2020

Contact us

09

We always like suggestions
to improve ourselves



The screenshot shows a web browser window with the following details:

- Browser Tabs:** Contact us, Data | Atlas: MongoDB Atlas, Covidstats - Google Slides.
- Address Bar:** c19bit0004-19bit0030-18bit0227.herokuapp.com/contactus
- Navigation Bar:** Covid Stats, Home, Riskpredictor, Volunteer, Contact us
- Form Content:**
 - Header: • KEEP IN TOUCH •
 - Icon: A small icon of a telephone handset.
 - Input Fields:
 - MY NAME IS (with a dropdown arrow)
 - MY E-MAIL IS
 - 0
 - SUBJECT LINE (with a dropdown arrow)
 - I'D LIKE TO CHAT ABOUT
- Taskbar:** Windows Start button, search bar (Type here to search), and various application icons (Edge, File Explorer, etc.).
- System Tray:** Network, volume, and language (ENG IN) icons, along with the date and time (9:58 AM, 10/27/2020).

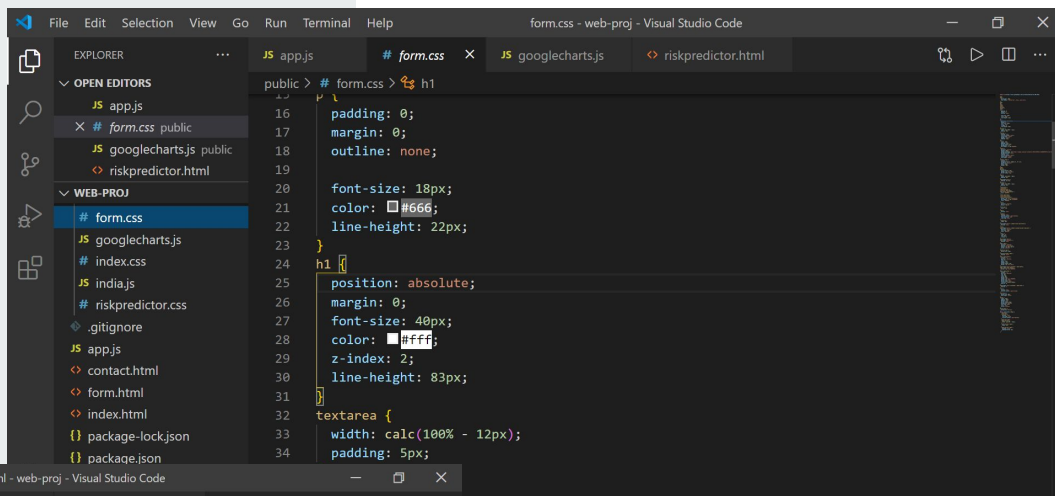
Screenshots of code

We have providing screenshots for code, for more detailed code viewing
Please visit our github repo

<https://github.com/kvssankar/covid19>



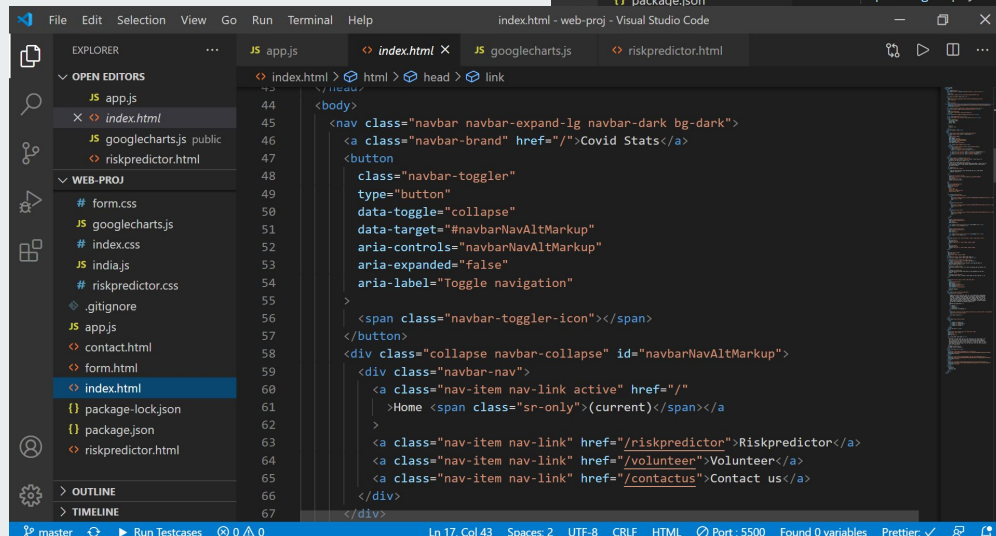
HTML CSS BOOTSTRAP JQUERY ANIMATIONS



```
File Edit Selection View Go Run Terminal Help
form.css - web-proj - Visual Studio Code

EXPLORER
  OPEN EDITORS
    JS app.js
    # form.css public
    JS googlecharts.js public
    riskpredictor.html
  WEB-PROJ
    # form.css
    JS googlecharts.js
    # index.css
    JS india.js
    # riskpredictor.css
    .gitignore
    JS app.js
    contact.html
    form.html
    index.html
    package-lock.json
    package.json

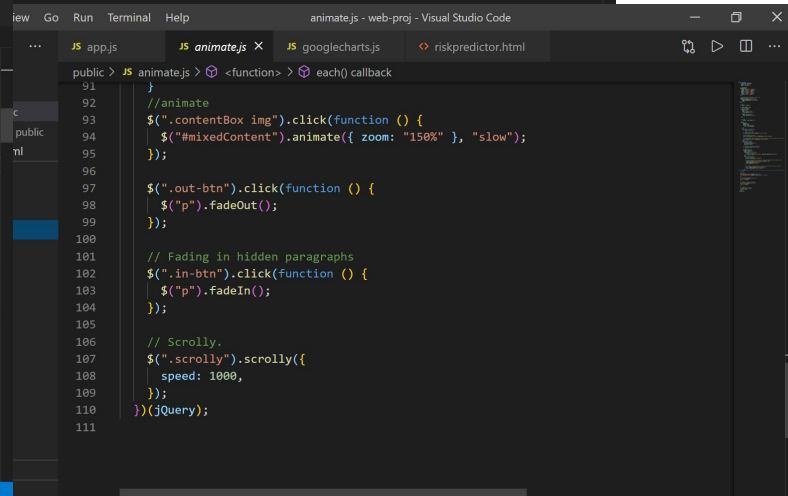
public # form.css > h1
16 padding: 0;
17 margin: 0;
18 outline: none;
19
20 font-size: 18px;
21 color: #666;
22 line-height: 22px;
23
24 h1 {
25   position: absolute;
26   margin: 0;
27   font-size: 40px;
28   color: #fff;
29   z-index: 2;
30   line-height: 83px;
31 }
32 textarea {
33   width: calc(100% - 12px);
34   padding: 5px;
```



```
File Edit Selection View Go Run Terminal Help
index.html - web-proj - Visual Studio Code

EXPLORER
  OPEN EDITORS
    JS app.js
    index.html
    JS googlecharts.js public
    riskpredictor.html
  WEB-PROJ
    # form.css
    JS googlecharts.js
    # index.css
    JS india.js
    # riskpredictor.css
    .gitignore
    JS app.js
    contact.html
    form.html
    index.html
    package-lock.json
    package.json
    riskpredictor.html

index.html > html > head > link
44 <body>
45 <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
46   <a class="navbar-brand" href="/">Covid Stats</a>
47   <button
48     class="navbar-toggler"
49     type="button"
50     data-toggle="collapse"
51     data-target="#navbarNavAltMarkup"
52     aria-controls="navbarNavAltMarkup"
53     aria-expanded="false"
54     aria-label="Toggle navigation"
55   >
56     <span class="navbar-toggler-icon"></span>
57   </button>
58   <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
59     <div class="navbar-nav">
60       <a class="nav-item nav-link active" href="/"
61         >Home <span class="sr-only">(current)</span></a>
62       <a class="nav-item nav-link" href="/riskpredictor">Riskpredictor</a>
63       <a class="nav-item nav-link" href="/volunteer">Volunteer</a>
64       <a class="nav-item nav-link" href="/contactus">Contact us</a>
65     </div>
66   </div>
67
```

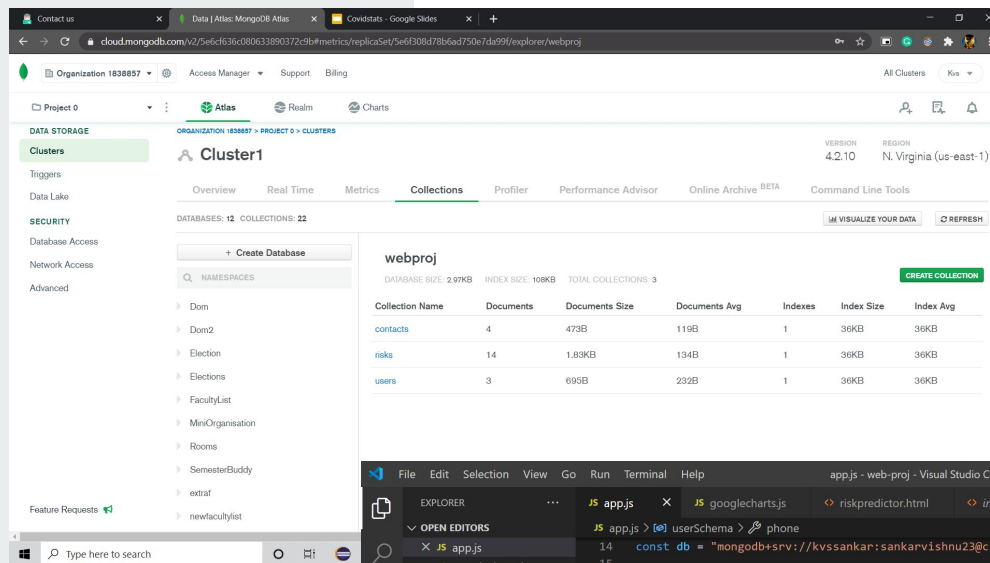


```
File Edit Selection View Go Run Terminal Help
animate.js - web-proj - Visual Studio Code

public JS animate.js > each() callback
91 }
92 //animate
93 $(".contentBox img").click(function () {
94   $("#mixedContent").animate({ zoom: "150%", "slow");
95 });
96
97 $(".out-btn").click(function () {
98   $(".p").fadeOut();
99 });
100
101 // Fading in hidden paragraphs
102 $(".in-btn").click(function () {
103   $(".p").fadeIn();
104 });
105
106 // Scrollly.
107 $(".scrollly").scrolly({
108   speed: 1000,
109 });
110 })($jQuery);
111
```

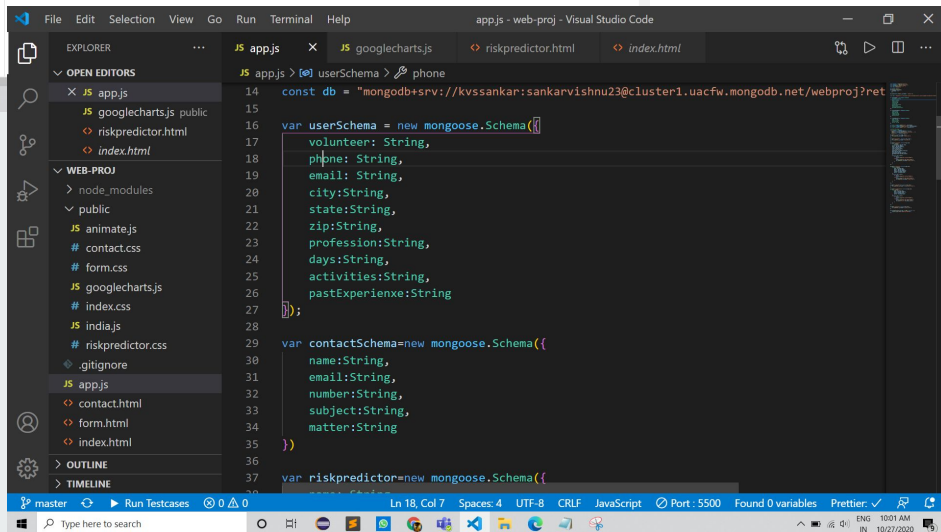
Mongodb Atlas Database

For storing the information of risk predictor, volunteer, and contact form entries



The screenshot shows the MongoDB Atlas web interface. The left sidebar displays the 'DATA STORAGE' section with 'Clusters' selected. The main area shows the 'Cluster1' overview, including 'DATABASES: 12' and 'COLLECTIONS: 22'. A table lists the collections in the 'webproj' database:

Collection Name	Documents	Documents Size	Documents Avg	Indexes	Index Size	Index Avg
contacts	4	473B	119B	1	36KB	36KB
naks	14	1.83KB	134B	1	36KB	36KB
users	3	693B	232B	1	36KB	36KB

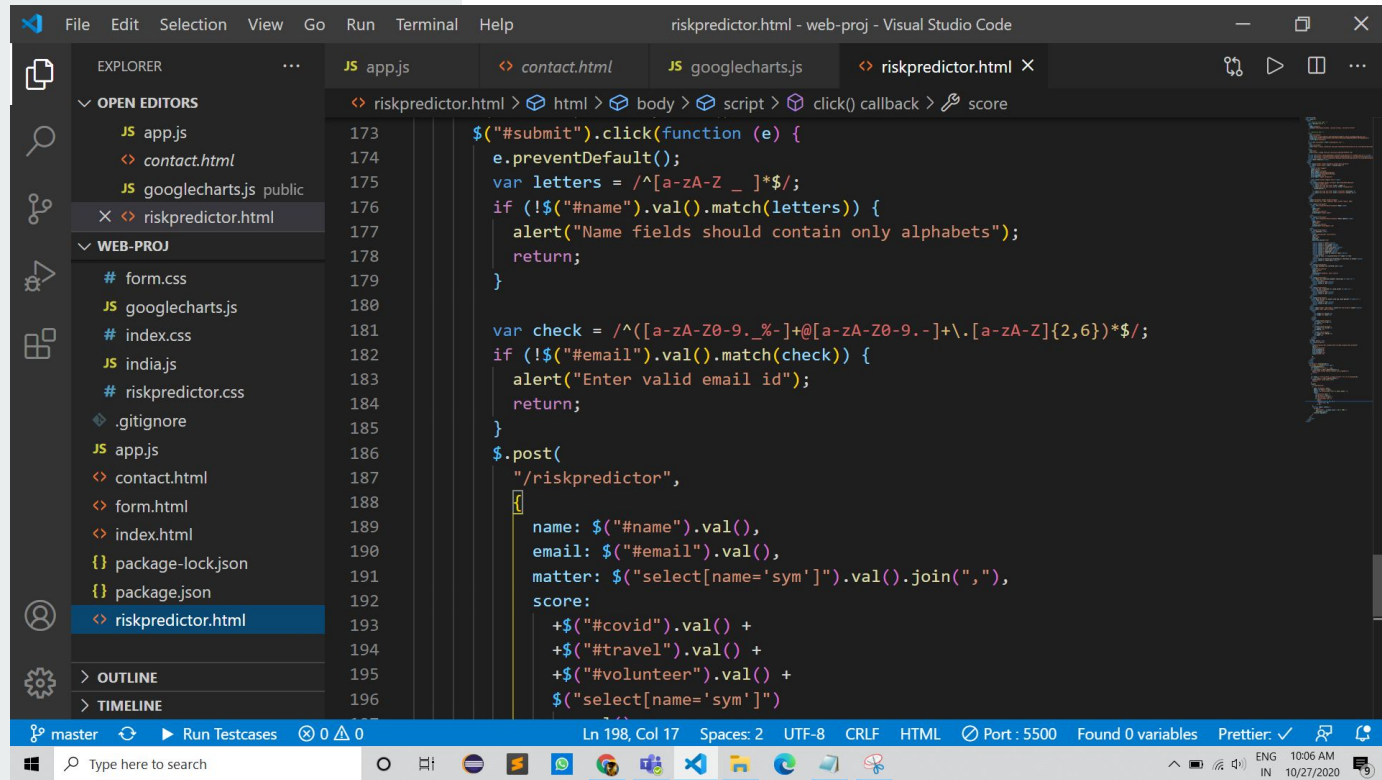


The screenshot shows a Visual Studio Code editor with a JavaScript file named 'app.js'. The code defines two MongoDB schemas: 'userSchema' and 'contactSchema'.

```
14 const db = "mongodb+srv://kvssankar:sankarvishnu23@cluster1.uacfw.mongodb.net/webproj?ret
15
16 var userSchema = new mongoose.Schema({
17   volunteer: String,
18   phone: String,
19   email: String,
20   city:String,
21   state:String,
22   zip:String,
23   profession:String,
24   days:String,
25   activities:String,
26   pastExperience:String
27 });
28
29 var contactSchema=new mongoose.Schema({
30   name:String,
31   email:String,
32   number:String,
33   subject:String,
34   matter:String
35 });
36
37 var riskpredictor=new mongoose.Schema({
38   name:String,
```


JQUERY

We have used jquery for api
post requests and
animations



```
File Edit Selection View Go Run Terminal Help riskpredictor.html - web-proj - Visual Studio Code

EXPLORER
OPEN EDITORS
  JS app.js
  contact.html
  googlecharts.js public
  X riskpredictor.html
WEB-PROJ
  # form.css
  JS googlecharts.js
  # index.css
  JS india.js
  # riskpredictor.css
  .gitignore
  JS app.js
  contact.html
  form.html
  index.html
  package-lock.json
  package.json
  riskpredictor.html
OUTLINE
TIMELINE

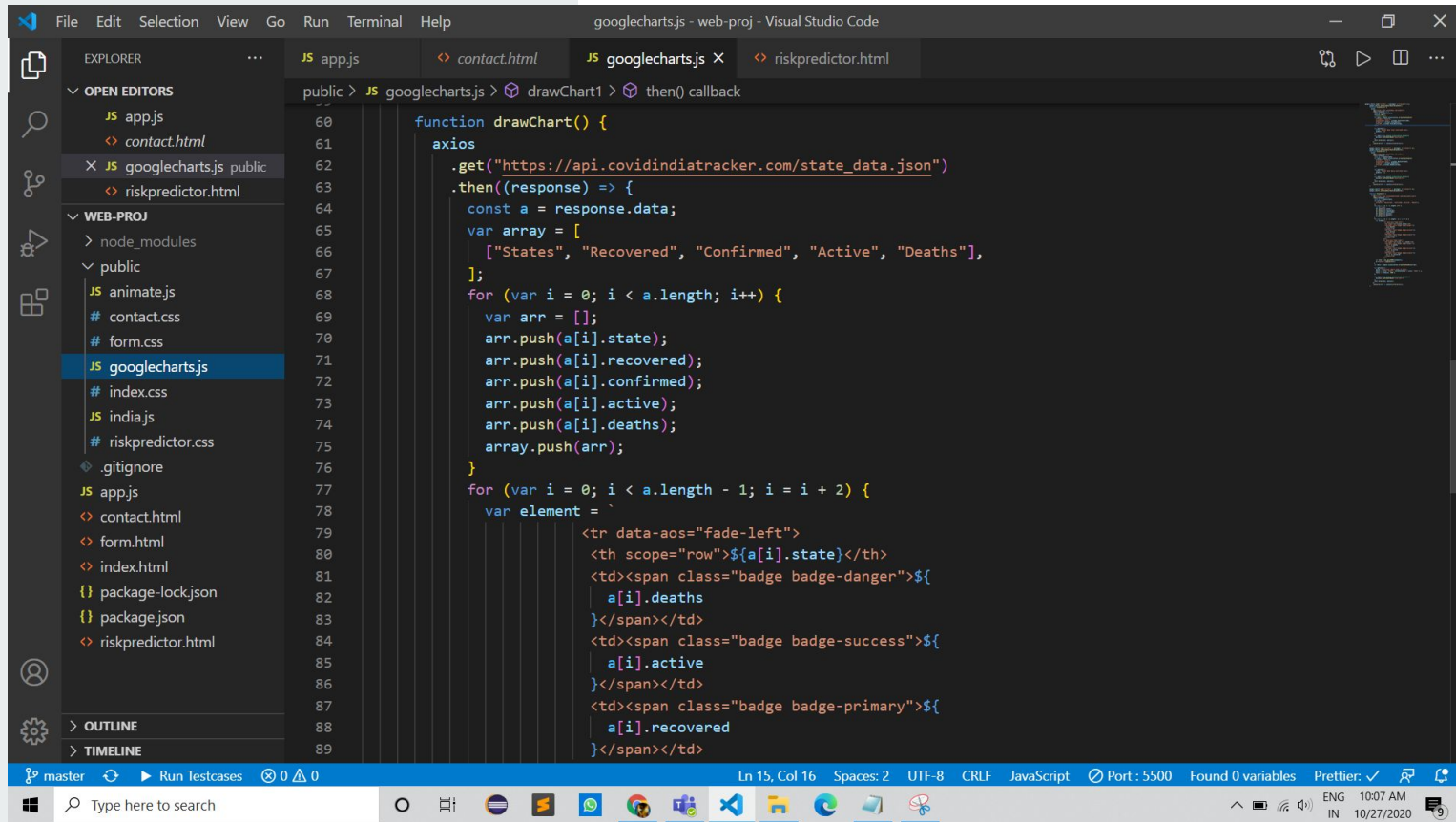
riskpredictor.html > html > body > script > click() callback > score
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$("#submit").click(function (e) {
  e.preventDefault();
  var letters = /^[a-zA-Z _]*$/;
  if (!$("#name").val().match(letters)) {
    alert("Name fields should contain only alphabets");
    return;
  }

  var check = /^[a-zA-Z0-9._%~+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6})$/;
  if (!$("#email").val().match(check)) {
    alert("Enter valid email id");
    return;
  }
}

$.post(
  "/riskpredictor",
  {
    name: $("#name").val(),
    email: $("#email").val(),
    matter: $("select[name='sym']").val().join(","),
    score:
      +$("#covid").val() +
      +$("#travel").val() +
      +$("#volunteer").val() +
      $("select[name='sym']").val()
  })
```

For getting data
from api and
integrating into
charts and many
more



```
File Edit Selection View Go Run Terminal Help
googlecharts.js - web-proj - Visual Studio Code

EXPLORER
OPEN EDITORS
  JS app.js
  < contact.html
  X JS googlecharts.js public
  < riskpredictor.html
WEB-PROJ
  > node_modules
  > public
    JS animate.js
    # contact.css
    # form.css
    JS googlecharts.js
    # index.css
    JS india.js
    # riskpredictor.css
  .gitignore
  JS app.js
  < contact.html
  < form.html
  < index.html
  {} package-lock.json
  {} package.json
  < riskpredictor.html
  > OUTLINE
  > TIMELINE

public > JS googlecharts.js > drawChart1 > then() callback
60
61 function drawChart() {
62   axios
63     .get("https://api.covidindiatracker.com/state_data.json")
64     .then((response) => {
65       const a = response.data;
66       var array = [
67         ["States", "Recovered", "Confirmed", "Active", "Deaths"],
68       ];
69       for (var i = 0; i < a.length; i++) {
70         var arr = [];
71         arr.push(a[i].state);
72         arr.push(a[i].recovered);
73         arr.push(a[i].confirmed);
74         arr.push(a[i].active);
75         arr.push(a[i].deaths);
76         array.push(arr);
77       }
78       for (var i = 0; i < a.length - 1; i = i + 2) {
79         var element = `
80         <tr data-aos="fade-left">
81           <th scope="row">${a[i].state}</th>
82           <td><span class="badge badge-danger">${
83             a[i].deaths
84           }</span></td>
85           <td><span class="badge badge-success">${
86             a[i].active
87           }</span></td>
88           <td><span class="badge badge-primary">${
89             a[i].recovered
90           }</span></td>
91         `
92       }
93     })
94   }
95 }
```

Ln 15, Col 16 Spaces: 2 UTF-8 CRLF JavaScript Port : 5500 Found 0 variables Prettier: ✓

Type here to search

ENG 10:07 AM 10/27/2020

Javascript

Angularjs

For form validation

```
File Edit Selection View Go Run Terminal Help
form.html - web-proj - Visual Studio Code

EXPLORER
  OPEN EDITORS
    JS app.js
    JS googlecharts.js public
    X form.html
    riskpredictor.html
  WEB-PROJ
    > node_modules
    > public
      JS animate.js
      # contact.css
      # form.css
      JS googlecharts.js
      # index.css
      JS india.js
      # riskpredictor.css
    .gitignore
    JS app.js
    < form.html
    < index.html
    {} package-lock.json
    {} package.json
    < riskpredictor.html
  > OUTLINE
  > TIMELINE

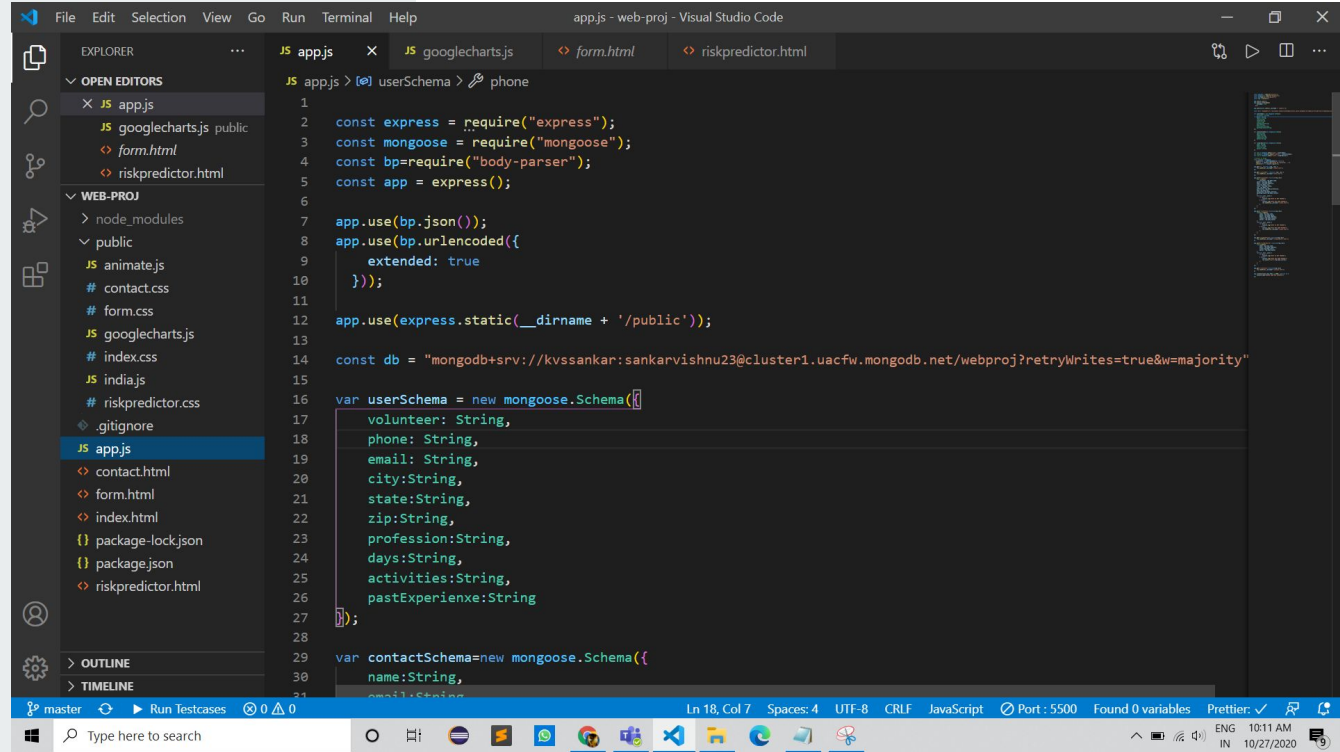
form.html
270 </form>
271 </div>
272 <script>
273   var app = angular.module("validateApp", []);
274   app.controller("validateCtrl", function ($scope) {
275     $scope.name = "";
276     $scope.email = "";
277     $scope.phone = 0;
278     $scope.state = "";
279     $scope.city = "";
280     $scope.zip = 0;
281     $scope.checkValidationOnClick = function ($event) {
282       var flag = 0;
283       if (
284         $scope.name == "" ||
285         $scope.email == "" ||
286         $scope.phone == "" ||
287         $scope.state == "" ||
288         $scope.city == "" ||
289         $scope.zip == ""
290       ) {
291         alert("All fields are mandatory and have to be entered");
292         $event.preventDefault();
293         flag = 1;
294       }
295       var letters = /^[a-zA-Z _]*$/;
296       if (
297         !$scope.name.match(letters) ||
298         !$scope.state.match(letters) ||
299         !$scope.city.match(letters)
300       ) {

```

Nodejs Express js Mongoose

For backend, for hosting,

For sending data to mongo
atlas cloud



```
File Edit Selection View Go Run Terminal Help
app.js - web-proj - Visual Studio Code

EXPLORER
  JS app.js
  JS googlecharts.js public
  form.html
  riskpredictor.html
  WEB-PROJ
    node_modules
    public
      JS animate.js
      # contact.css
      # form.css
      JS googlecharts.js
      # index.css
      JS india.js
      # riskpredictor.css
      .gitignore
  JS app.js
  contact.html
  form.html
  index.html
  package-lock.json
  package.json
  riskpredictor.html

JS app.js > userSchema > phone
1
2 const express = require("express");
3 const mongoose = require("mongoose");
4 const bp=require("body-parser");
5 const app = express();
6
7 app.use(bp.json());
8 app.use(bp.urlencoded({
9   extended: true
10 }));
11
12 app.use(express.static(__dirname + '/public'));
13
14 const db = "mongodb+srv://kvssankar:sankarvishnu23@cluster1.uacfw.mongodb.net/webproj?retryWrites=true&w=majority"
15
16 var userSchema = new mongoose.Schema({
17   volunteer: String,
18   phone: String,
19   email: String,
20   city:String,
21   state:String,
22   zip:String,
23   profession:String,
24   days:String,
25   activities:String,
26   pastExperience:String
27 });
28
29 var contactSchema=new mongoose.Schema({
30   name:String,
31   email:String
```

State	Confirmed	Deaths	Recovered
Meghalaya	81	1607	7332
Nagaland	25	1948	6653
Ladakh	71	691	5216
Andaman and Nicobar Islands	58	198	3997
Sikkim	65	327	3448
Mizoram	0	284	2209
Daman and Diu	1	107	1399
Dadra and Nagar Haveli	1	121	1317

— Thankyou

Visit our website:

<https://c19bit0004-19bit0030-18bit0227.herokuapp.com/>

Github link:

<https://github.com/kvssankar/covid19>