



# Covid Near Me

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# INTRODUCTION

## PURPOSE

To provide users with a simple interface where they can see the latest COVID-19 news and stats.

## PROJECT SCOPE

A simple web app that gives information about Covid-19 from around the United States. It gives information about cumulative cases to date, daily positive cases received, cumulative deaths to date, deaths reported today, cumulative tests to date, tests reported today, cases currently hospitalized and cases currently in ICU.

A simple blog where you can add a blog post and show the latest blog posts on the home page, edit or delete a specific post as well.

# DESCRIPTION

## Technology Stack

### Front-End

- 1- JavaScript
- 2- HTML
- 3- CSS
- 4- Bootstrap

### Back-End

- 1- Node Js
- 2- MongoDB
- 3- Express Js (in ROUTING)
- 4- Npm Modules

## FEATURES

- 1- Show COVID-19 stats on the home/front/landing page. Data from COVID-19 official data source(API).
- 2- Show the latest posts on the home/front/landing page.
- 3- Add posts with a title, image, description, and author.
- 4- Delete a post
- 5- Edit a post

## Configuration (localhost) - Abstract

- 1- Make sure you have MongoDB and NodeJs installed along with their environment variables added (If using windows). On Linux just do "sudo apt-get install -y nodejs" and for MongoDB run the command "sudo apt-get install -y mongodb-org". Follow Reference for installation for help online.
- 2- Install Git Bash as well (For Windows only).
- 3- Once MongoDB and NodeJs installed, now go to the project root folder and open git bash and command "code .". If you have VS Code installed, it will open the project folder in VS Code.
- 4- Open Terminal and write the command "npm install". It will install all the necessary packages listed in package.json.
- 5- Now in the terminal run the command "node app.js". It will run the program on localhost:3000.
- 6- Goto chrome and write localhost:3000 to open the site.

## References for Installation

- 1- Windows

<https://medium.com/swlh/beginner-node-js-express-js-and-mongodb-installation-tutorial-for-windows-6db3684ed74b>

- 2- Linux

<https://www.cronj.com/blog/install-nodejs-mongodb-ubuntu/>

## APPENDICES

### APPENDIX A: Front-End

There are two HTML files for the Home and About pages (index.html, and about.html) The index.html displays the main web page with COVID-19 Statistics, and Blog posts. This page was created using the Clean Blog bootstrap template, <https://startbootstrap.com/theme/clean-blog>. We modified this template to also display COVID statistics. The COVID statistics layout was created from <https://occovid19.ochealthinfo.com/>. We merge these layouts and modified them using HTML and CSS to create our homepage. We use the clean-blog.min.css file to style our HTML files. We also have a JavaScript file index.js to connect to Covidactnow API.

## INDEX.HTML Layout

The <body> tag contains all the DOM elements. The first element is the <nav> tag displays the navigation bar to navigate between the Home and About pages. The <header> tag contains the background image and page heading. The <section> tag contains a grid of div elements to display the COVID Statistics. We update each element with the updateUI function in the index.js file. A <div> container holds the news posts for the blog.

## ABOUT.HTML Layout

The <body> tag contains all the DOM elements. Again the <nav> element is at the top to navigate between pages. The <header> contains the background image only. A <div> container displays the page heading. Another <div> container holds a grid of one row and four columns for each profile. Each card displays the profile image, name, role, summary, and social links. We use font-awesome icons to display the social links.

## INDEX.js

This file contains functions to update the values of each <div> element that displays a statistic, display the date, and event listeners State selection.

## APPENDIX B: Back-End

App.JS:

```
//Things that we have used in this whole backend application
//=====
//Language: Javascript
//Node Js: Runtime environment for Javascript - Serves on server side -
Used for backend
//ExpressJs: NPM Package - Used for routing
//NPM - Node Package Module
//Mongoose: NPM package that uses mongoDB and it is a modular approach of
using mongodb - everything is organized
//EJS: NPM package - Embedded Javascript - View engine - It is a simple
templating language/engine that lets its user generate HTML with plain
javascript.
//Package JSON: When npm start command is executed it installs all the
packages inside package.json
```