

MINI PROJECT

(2020-21)

E-Commerce Website

MID-TERM REPORT



Institute of Engineering and Technology

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Abstract

In today's fast-changing business environment, it's extremely important to be able to respond to client needs in the most effective and timely manner. The approach that was followed was to initially carry out a survey of relevant literature and related work on the broad spectrum of e-Business trying to examine not only the technical dimensions of the subject but also the business and the social ones. E-Business has a growing impact on our world and has revolutionized many aspects of human activity. Understanding its wider context is essential. If your customers wish to see your business online and have instant access to your products or services. Online Shopping is a lifestyle e-commerce web application, which retails various veg food products. This project allows viewing various products available enables registered users to purchase products instantly via various payment methods and also can place orders by using Cash on Delivery option. This project provides easy access to Administrators and Managers to view orders placed using Pay Later and Instant Pay options. In order to develop an e-commerce website, a number of Technologies must be studied and understood. These include multi-tiered architecture, server and client side scripting techniques, implementation technologies, programming language and relational databases. This is a project with the objective to develop a basic website where a consumer is provided with a shopping cart application and also to know about the technologies used to develop such an application.

Introduction

1.1 General Introduction

Full Stack development refers to the development of both **front end**(client side) and **back end**(server side) portions of web application

Front End - It is the visible part of a website or web application which is responsible for user experience. The user directly interacts with the front end portion of the web application or website.

The front end portion is built by using some languages which are :

1. HTML
2. CSS
3. Javascript

Back End - It refers to the server-side development of a web application or website with a primary focus on how the website works. It is responsible for managing the database through queries and APIs by client-side commands.

1.2 Area of Computer Science

The advancement of computer technology and internet, domestic as well as international businesses are being fascinated towards these technologies. Today, most of the small or big businesses and domestic or international businesses offer their products and services through the Internet.

The business organizations these days have attractive and interactive websites through which they promote and market their business.

The facility of computer based technology and Internet collectively integrates the fragmented markets by offering them a common arena. Technology has further helped organizations in cost cutting and has also helped reduce the cost of products and services.

1.3.1 Hardware Requirement

- **Storage Required** - Minimum 10GB
- **Processor** - i5 or more
- **Ram Size** - 4 GB
- **Type of OS** - Windows 10 Home

1.3.2 Software Requirement

- **Technology Implemented** - Full Stacks
- **Front-End Technologies** - HTML, CSS, JavaScript, Bootstrap
- **Web Browser Used** - Chrome Browser , Mozilla Firefox
- **IDE Used** - Visual Studio Code 2020

Problem Definition

This project aims to develop online shopping for customers with the goal that it is very easy to shop your loved veg food items from an extensive number of online shopping sites available on the web. With the help of this you can carry out an online shopping from your home. Here is no compelling reason to go to the crowded stores or shopping centers during festival seasons. You simply require a PC or a laptop and one important payment sending option to shop online. To get to this online shopping system all the customers will need to have an email and password to login and proceed your shopping. The login credentials for an online shopping system are secured.

Objective

Ecommerce business drives profitable growth with reduction in cost-to-customer, developing customer-reach, and providing a unique customer experience. It has become more than essential for B2B as well as other businesses to make the right use of ecommerce. Now, ecommerce is evolving or better say evolved into digital commerce that implies to the entire business journey from buying to delivery with an online experience. Below are the few objectives of ecommerce:

1. Reduce management costs

Businesses aim at reducing the costs incurred for the betterment of their revenue. Automating the ecommerce business can help in reducing the management cost significantly. Moreover, the right use of digital marketing can help in reducing the cost spent on driving customers to such an extent that businesses can bring customers for free of cost.

2. Developing business relations

With ecommerce as the primary use, business development can be easily achieved. The direct communication between a company and the customer, the business relationship can be boosted. Eventually, the ecommerce market shall be expanded.

3. Boosting the efficiency of services

With the continually evolving technology, you need to enhance the efficiency of your services. By choosing an online ecommerce platform to create an online store, you can efficiently reduce the cost of managing and selling online. You have various

opportunities to boost the efficiency of your service that eventually enhances the revenue earned. By reducing the delivery time, you can witness happy customers getting back to your business two times faster. Another way is to provide your customers with automated services such as status update, invoice creating, chat support, etc. When you update your efficiency of delivering products or services to your customers, you are creating a strong online presence that helps you sell more.

4. Increasing the number of loyal customers

Customers are the core of all business strategies. Therefore, ensuring the great customer experience is of prime importance for the growth of the business. You need to meet your customers where they spend their time. More than 60% of consumers look for purchasing goods and services online. If you meet your customers where they are already active, the chances of them interacting with your business increases two folds. You can increase the number of loyal customers by giving the best experience to your already existing customers as well as bring in newer customers.

Implementation Details

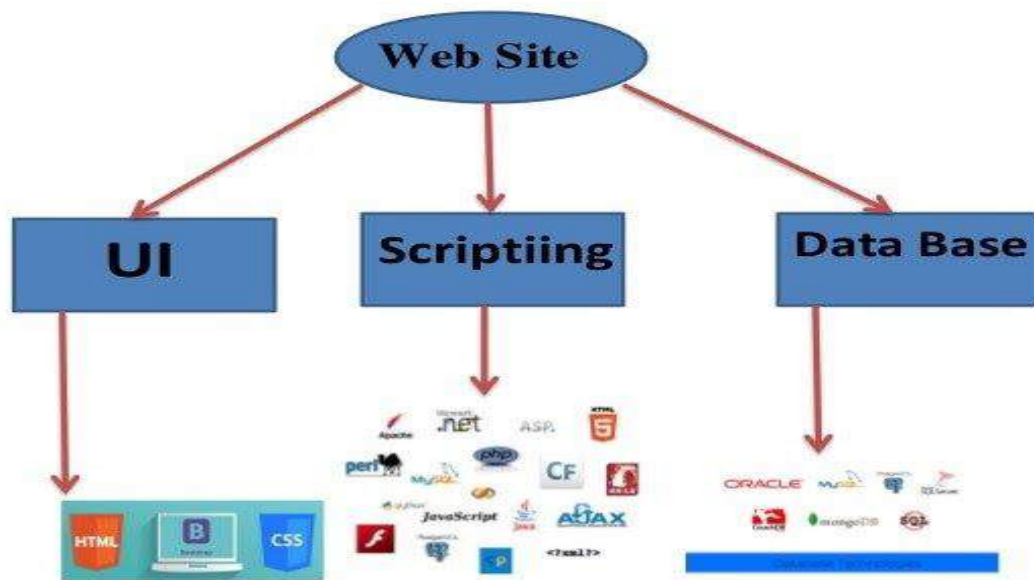


Fig 3.1

Part1: To build responsive User Interface(UI).

A responsive website means that the site can be opened on multiple screen sizes that are relevant to all kinds of devices that we use daily. The ability to showcase your website to a wide variety of people with diverse devices means improved user experience.

Technologies that are mostly used to develop a user interface are:

- HTML
- CSS
- Bootstrap

HTML

HyperText Markup Language (HTML) is a simple markup system used to create hypertext documents that are portable from one platform to another. HTML documents are SGML documents with generic semantics that are appropriate for representing information from a wide range of applications.

General Syntax of HTML

```
<!DOCTYPE html>

<html>

  <head>

    <title>Page Title</title>

  </head>

  <body>

    <h1>My First Heading</h1>

    <p>My first paragraph.</p>

  </body>

</html>
```

CSS

Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable.

CSS handles the look and feel part of a web page. Using CSS, you can control the color of the text, the style of fonts, the spacing between paragraphs, how columns are sized

and laid out, what background images or colors are used, layout designs, variations in display for different devices and screen sizes as well as a variety of other effects.

General Syntax of CSS

```
<html>

    <head>

        <style>

            <!-- CSS STYLING -->

        </style>

    </head>

</html>
```

BOOTSTRAP

Bootstrap is a free and open-source tool collection for creating responsive websites and web applications. It is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first web sites. It solves many problems which we had once, one of which is the cross-browser compatibility issue. Nowadays, the websites are perfect for all the browsers (IE, Firefox and Chrome) and for all sizes of screens (Desktop, Tablets, Phablets, and Phones). All thanks to Bootstrap developers -Mark Otto and Jacob Thornton of Twitter, though it was later declared to be an open-source project.

Installing and Linking Bootstrap to HTML pages

- Install Bootstrap from <https://getbootstrap.com>.
- Copy the bootstrap min.css file to your CSS folder and link it to the HTML page in the same manner to how many others CSS file is linked.

-
- Link the bootstrap.min.js file which is present in the JS folder of the bootstrap. it can be linked using script tag.
 - Now Use Bootstrap classes to reduce the work of designing which was earlier done through CSS.

Part2: Scripting

Scripts in ServiceNow fall into two categories:

- Client side
- Server side

Server side Scripting

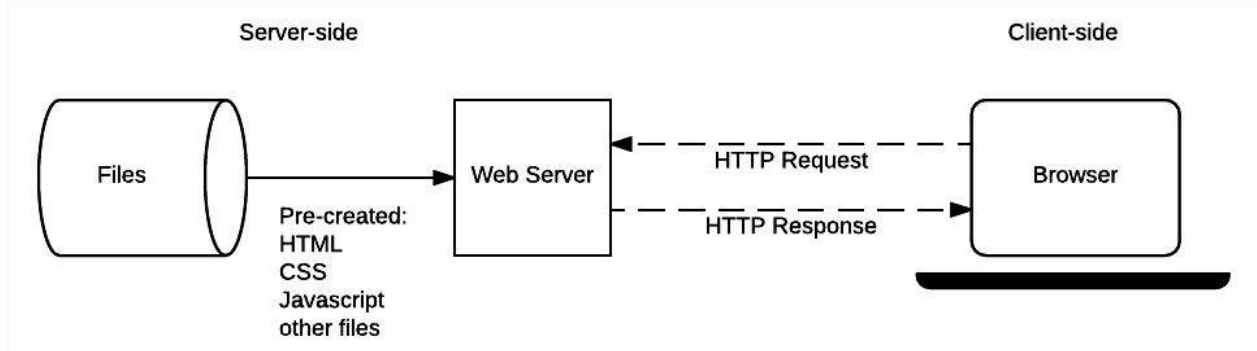
Server-side scripting languages are programming languages developed especially for creating HTML pages (or Web pages) on the server side. These languages usually provide special libraries that facilitate creating HTML pages. In times of Web 2.0 and AJAX, these scripting languages can also serve as data sources (services) for AJAX.

There are two different types of scripting languages. The first variant can be embedded in HTML. The language can be embedded, for example, in places where a particular functionality is needed. The second variant is languages which can be used to create HTML tags. They provide an interface for creating HTML tags.

On the server side, a special interpreter is necessary for each scripting language....

There are several languages that can be used for server side programming:

- **PHP**
- **Java**
- **Python**
- **Node.js**



Client-side Scripting

This module is about client-side scripting. Client-side scripts execute within a user's browser and are used to manage forms and form fields. Examples of things client-side scripts can do include:

- Place the cursor in a form field on form load
- Generate alerts, confirmations, and messages
- Populate a form field in response to another field's value
- Highlight a form field
- Validate form data
- Modify choice list options
- Hide/Show fields or sections

Incident
INC0009005

The New York office is on holiday today.

.service-now.com says
All requests are subject to management review. Do you want to continue?

Cancel OK

Number INC0009005

* Caller Fred Luddy

Category Software

Subcategory Email

Business service

Configuration item

Impact 1 - High

Urgency 1 - High

Priority 1 - Critical

Assignment group

Assigned to

* Short description Email server is down.

Client-side Scripting.

Part3: Data Base

A database is an organized collection of data. It is the collection of schemas, tables, queries, reports, views, and other objects. The data are typically organized to model aspects of reality in a way that supports processes requiring information, such as modelling the availability of rooms in hotels in a way that supports finding a hotel with vacancies.

A database management system (DBMS) is a computer software application that interacts with the user, other Applications, and the database itself to capture and analyze data. A general-purpose DBMS is designed to allow the definition, creation, querying, update, and administration of databases. Well-known DBMSs include MySQL, PostgreSQL, MongoDB, etc.

Progress

1. Progress (till 17th October)

We have created these following below pages:

- Cart Page
- Sign in & Sign up Page
- Wishlist Page
- Checkout Page
- Contact Page

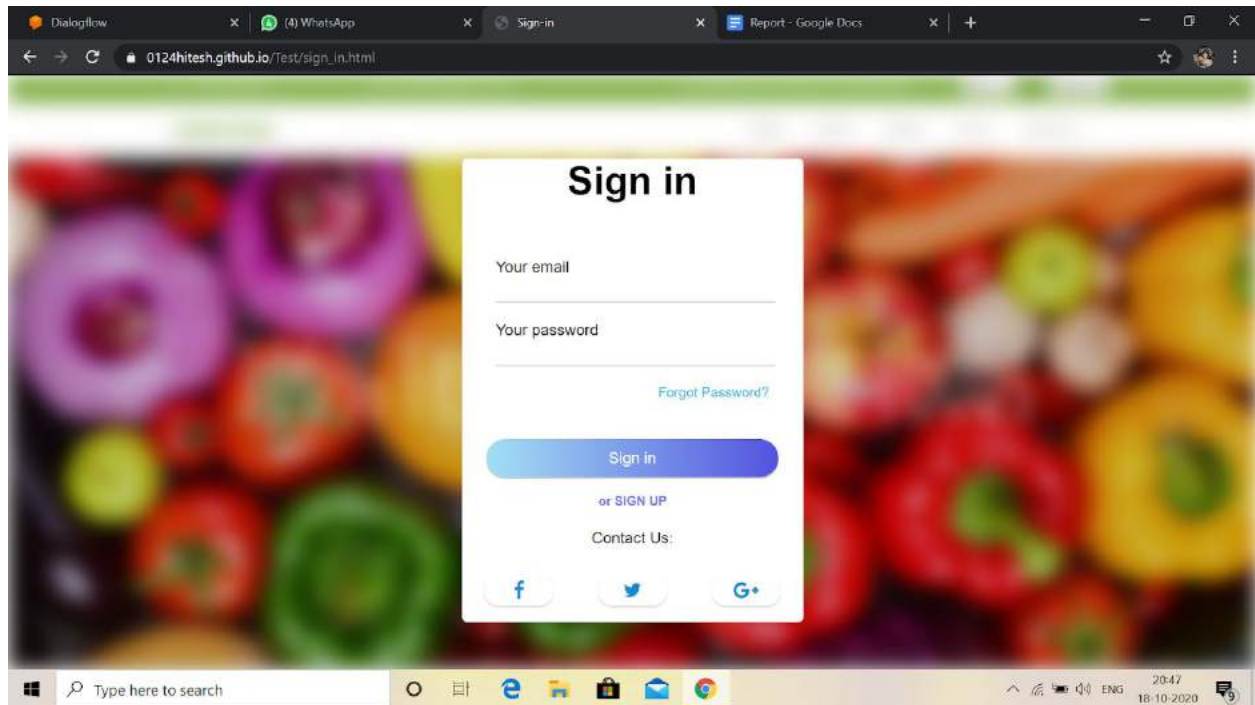
2. Remaining Work

- Adding Data
- Adding Backend
- Adding database in backend

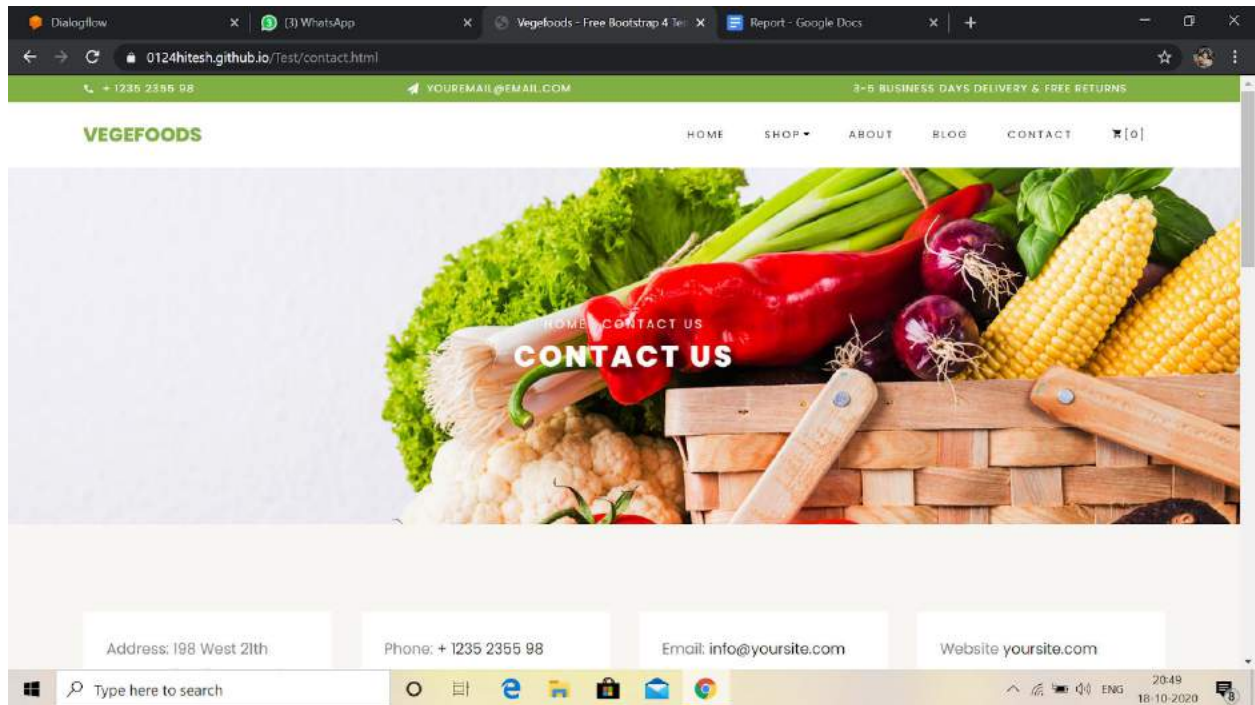
Progress Screenshot



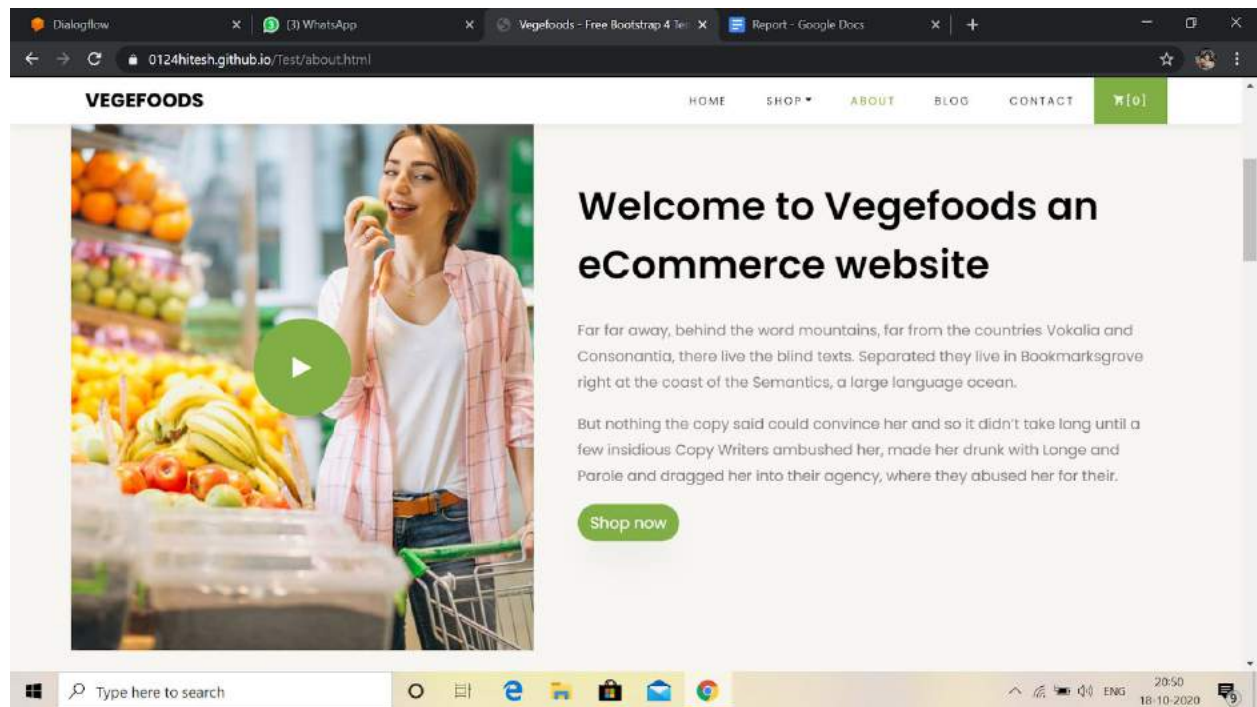
Sign-in page



Contact page



Shop Page



about.html

The screenshot shows the VS Code editor with the following details:

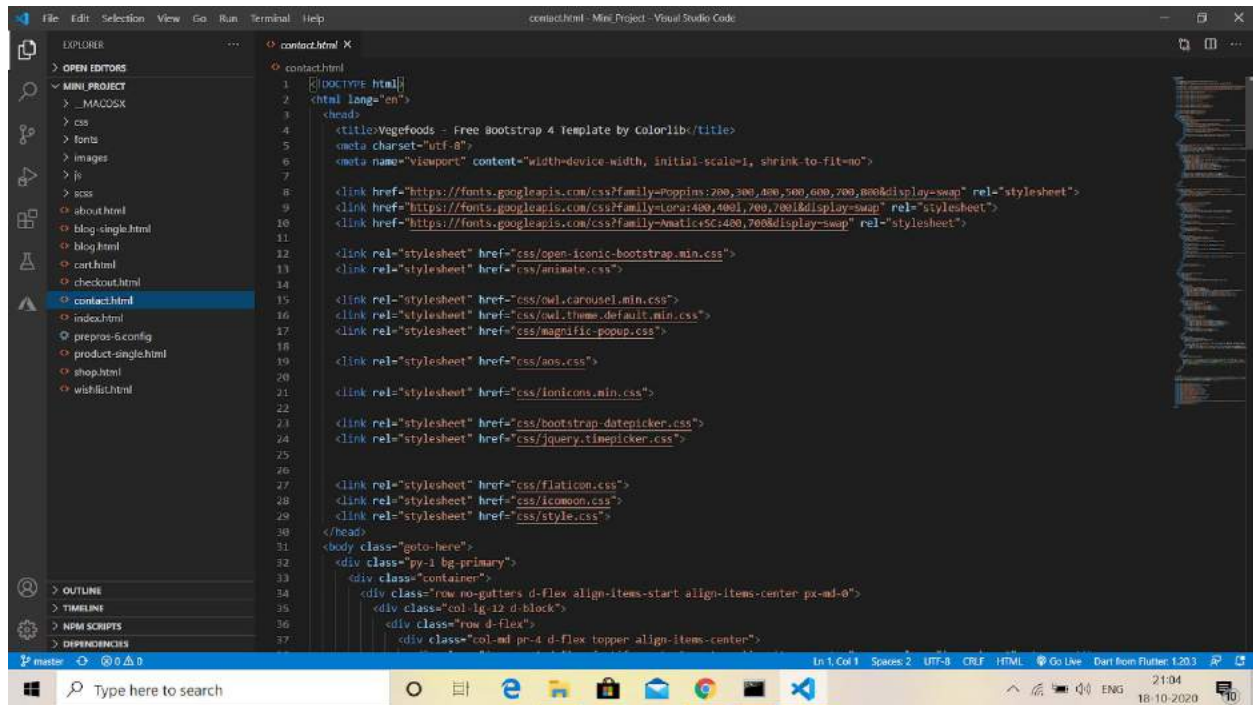
- Explorer Sidebar:**
 - MINI PROJECT
 - _MACOSX
 - css
 - fonts
 - images
 - js
 - sass
 - about.html** (selected)
 - blog-single.html
 - blog.html
 - cart.html
 - checkout.html
 - contact.html
 - index.html
 - prepro-6-config
 - product-single.html
 - shop.html
 - wishlist.html
- Main Editor:**

```

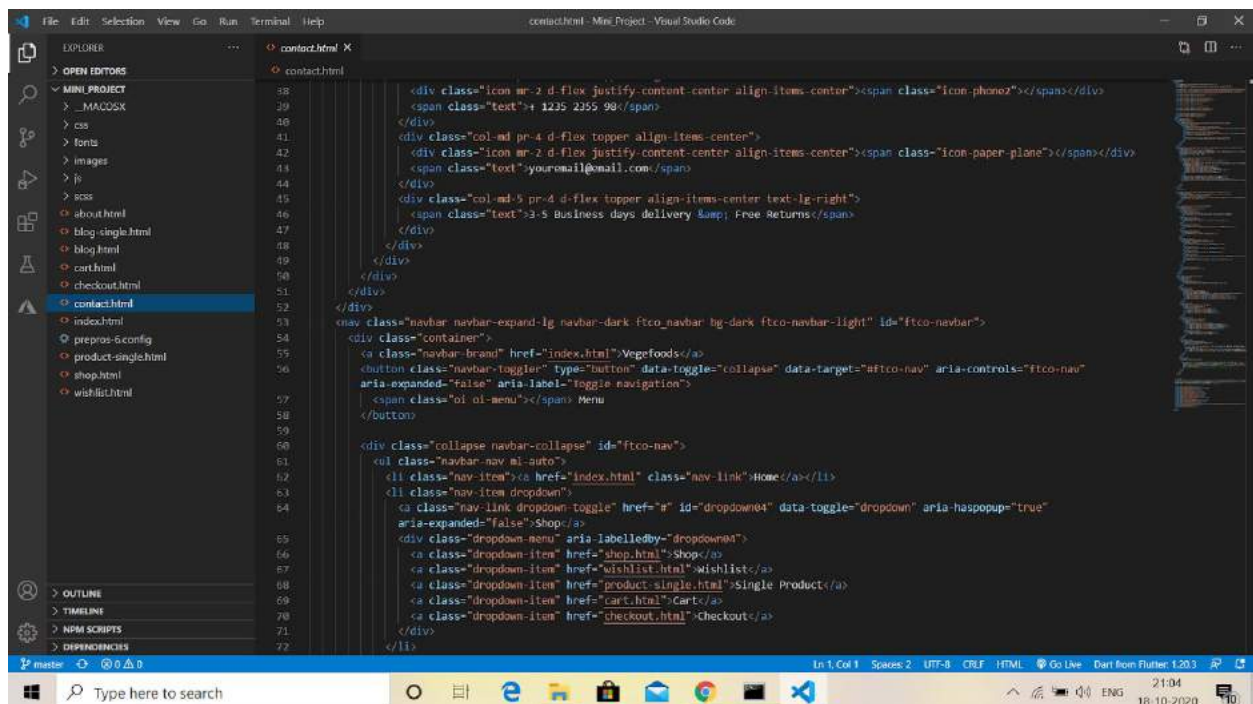
38 <div class="icon m-2 d-flex justify-content-center align-items-center"><span class="icon-phone2"></span></div>
39 <span class="text">+ 1235 2355 98</span>
40 </div>
41 <div class="col-md pr-4 d-flex topser align-items-center">
42 <div class="icon m-2 d-flex justify-content-center align-items-center"><span class="icon-paper-plane"></span></div>
43 <span class="text">youremail@email.com</span>
44 </div>
45 <div class="col-md-5 pr-4 d-flex topser align-items-center text-lg-right">
46 <span class="text">3.5 Business days delivery &amp; Free Returns</span>
47 </div>
48 </div>
49 </div>
50 </div>
51 </div>
52 </div>
53 <nav class="navbar navbar-expand-lg navbar-dark ftco.navbar bg-dark ftco.navbar-light" id="ftco.navbar">
54 <div class="container">
55 <a class="navbar-brand" href="index.html">vegfood</a>
56 <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#ftco.nav" aria-controls="ftco.nav"
57 <span class="oi oi-menu"></span> Menu
58 </button>
59
60 <div class="collapse navbar-collapse" id="ftco.nav">
61 <ul class="navbar-nav ml-auto">
62 <li class="nav-item"><a href="index.html" class="nav-link">Home</a></li>
63 <li class="nav-item dropdown">
64 <a class="nav-link dropdown-toggle" href="#" id="dropdown04" data-toggle="dropdown" aria-haspopup="true"
65 <span class="oi oi-menu"></span>
66 <a class="dropdown-item" href="shop.html">Shop</a>
67 <a class="dropdown-item" href="wishlist.html">Wishlist</a>
68 <a class="dropdown-item" href="product-single.html">Single Product</a>
69 <a class="dropdown-item" href="cart.html">Cart</a>
70 <a class="dropdown-item" href="checkout.html">Checkout</a>
71 </div>
72 </li>

```


Contact.html

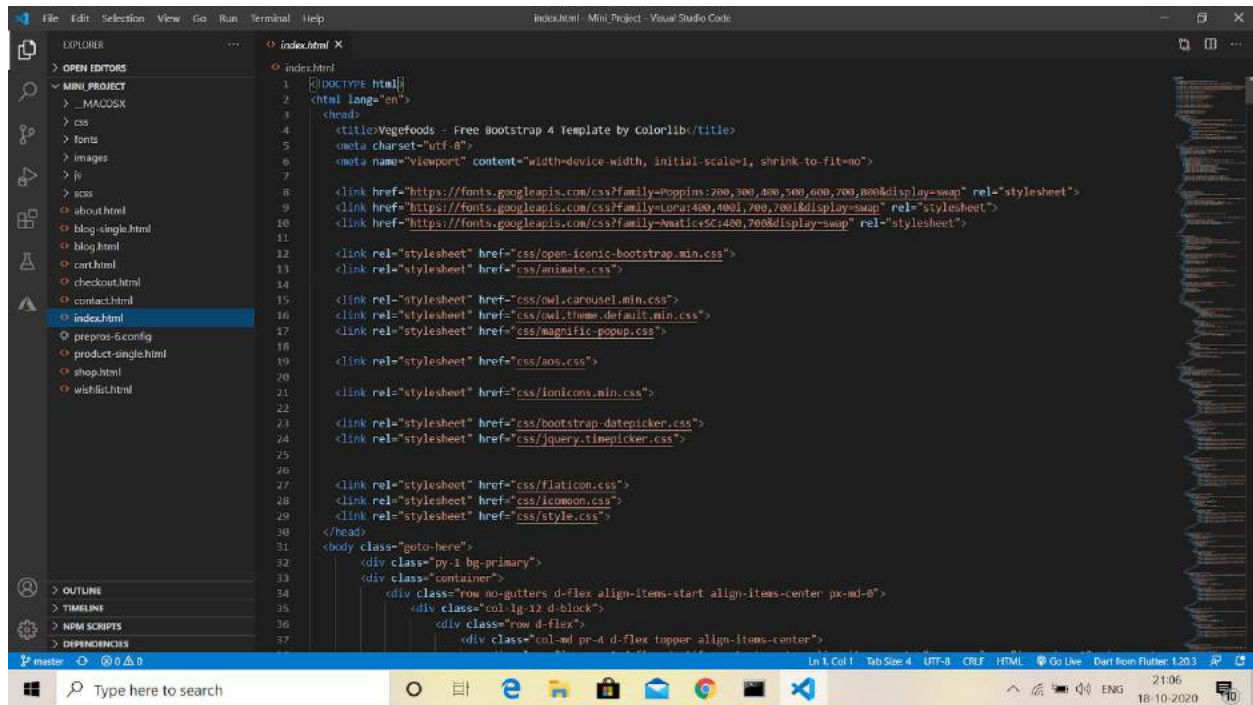


```
1<!DOCTYPE html>
2<html lang="en">
3<head>
4<title>Vegefoods - Free Bootstrap 4 Template by colorlib</title>
5<meta charset="utf-8">
6<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
7
8<link href="https://fonts.googleapis.com/css?family=Poppins:200,300,400,500,600,700,800&display=swap" rel="stylesheet">
9<link href="https://fonts.googleapis.com/css?family=Open+Sans:400,400i,700,700i&display=swap" rel="stylesheet">
10<link href="https://fonts.googleapis.com/css?family=Nunito+Sans:400,400i,700,700i&display=swap" rel="stylesheet">
11
12<link rel="stylesheet" href="css/open-iconic-bootstrap.min.css">
13<link rel="stylesheet" href="css/animate.css">
14
15<link rel="stylesheet" href="css/owl.carousel.min.css">
16<link rel="stylesheet" href="css/owl.theme.default.min.css">
17<link rel="stylesheet" href="css/magnific-popup.css">
18
19<link rel="stylesheet" href="css/aos.css">
20
21<link rel="stylesheet" href="css/ionicons.min.css">
22
23<link rel="stylesheet" href="css/bootstrap-datepicker.css">
24<link rel="stylesheet" href="css/jquery.timepicker.css">
25
26
27<link rel="stylesheet" href="css/flaticon.css">
28<link rel="stylesheet" href="css/icomoon.css">
29<link rel="stylesheet" href="css/style.css">
30</head>
31<body class="goto-here">
32<div class="py-1 bg-primary">
33<div class="container">
34<div class="row no-gutters d-flex align-items-start align-items-center px-md-0">
35<div class="col-lg-12 d-block">
36<div class="row d-flex">
37<div class="col-md pr-4 d-flex topper align-items-center">
```

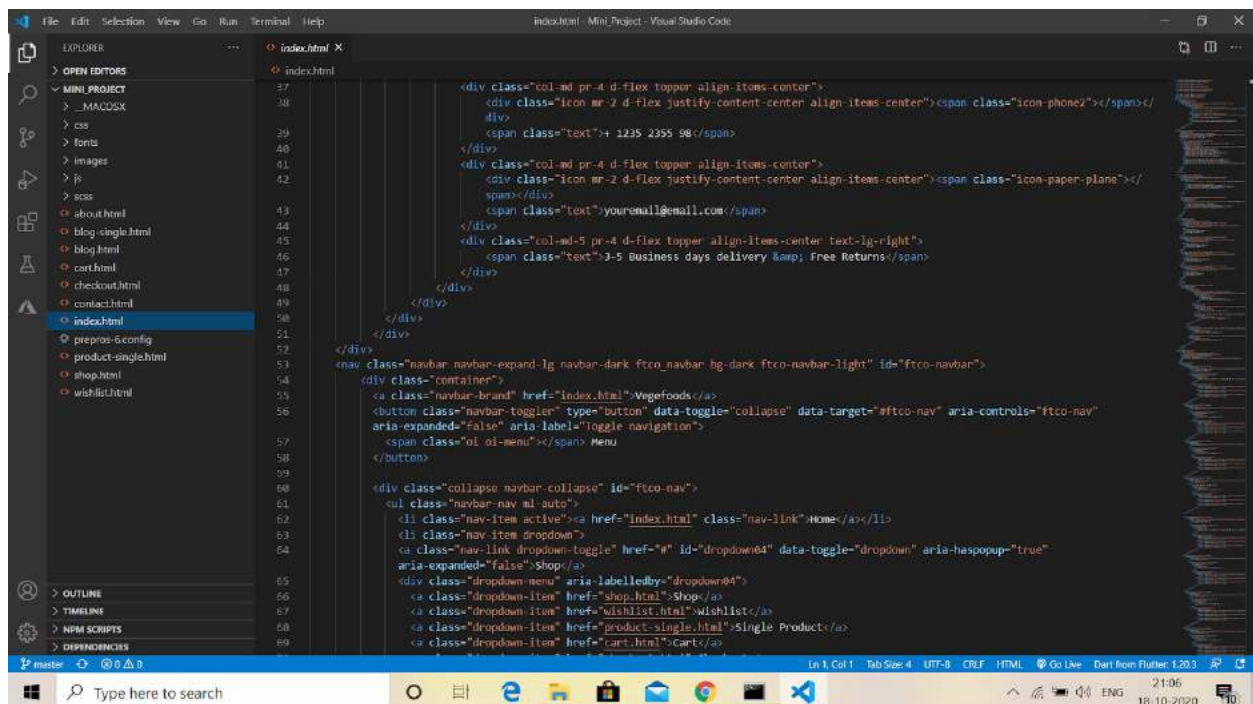


```
38<div class="icon mr-2 d-flex justify-content-center align-items-center"><span class="icon-phone"></span></div>
39<span class="text">+ 1235 2355 98</span>
40</div>
41<div class="col-md pr-4 d-flex topper align-items-center">
42<div class="icon mr-2 d-flex justify-content-center align-items-center"><span class="icon-paper-plane"></span></div>
43<span class="text">youremail@gmail.com</span>
44</div>
45<div class="col-md-5 pr-4 d-flex topper align-items-center text-right">
46<span class="text">3-5 Business days delivery &amp; Free Returns</span>
47</div>
48</div>
49</div>
50</div>
51</div>
52</div>
53<nav class="navbar navbar-expand-lg navbar-dark ftco_navbar bg-dark ftco_navbar-light" id="ftco-navbar">
54<div class="container">
55<a class="navbar-brand" href="index.html">Vegefoods</a>
56<button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#ftco-nav" aria-controls="ftco-nav"
57aria-expanded="false" aria-label="Toggle navigation">
58<span class="oi oi-menu"></span> Menu
59</button>
60<div class="collapse navbar-collapse" id="ftco-nav">
61<ul class="navbar-nav ml-auto">
62<li class="nav-item"><a href="index.html" class="nav-link">Home</a></li>
63<li class="nav-item dropdown">
64<a class="nav-link dropdown-toggle" href="#" id="dropdown04" data-toggle="dropdown" aria-haspopup="true"
65aria-expanded="false">Shop</a>
66<div class="dropdown-menu" aria-labelledby="dropdown04">
67<a class="dropdown-item" href="shop.html">Shop</a>
68<a class="dropdown-item" href="wishlist.html">Wishlist</a>
69<a class="dropdown-item" href="product-single.html">Single Product</a>
70<a class="dropdown-item" href="cart.html">Cart</a>
71<a class="dropdown-item" href="checkout.html">Checkout</a>
72</div>
73</li>
74</ul>
75</div>
```


index.html

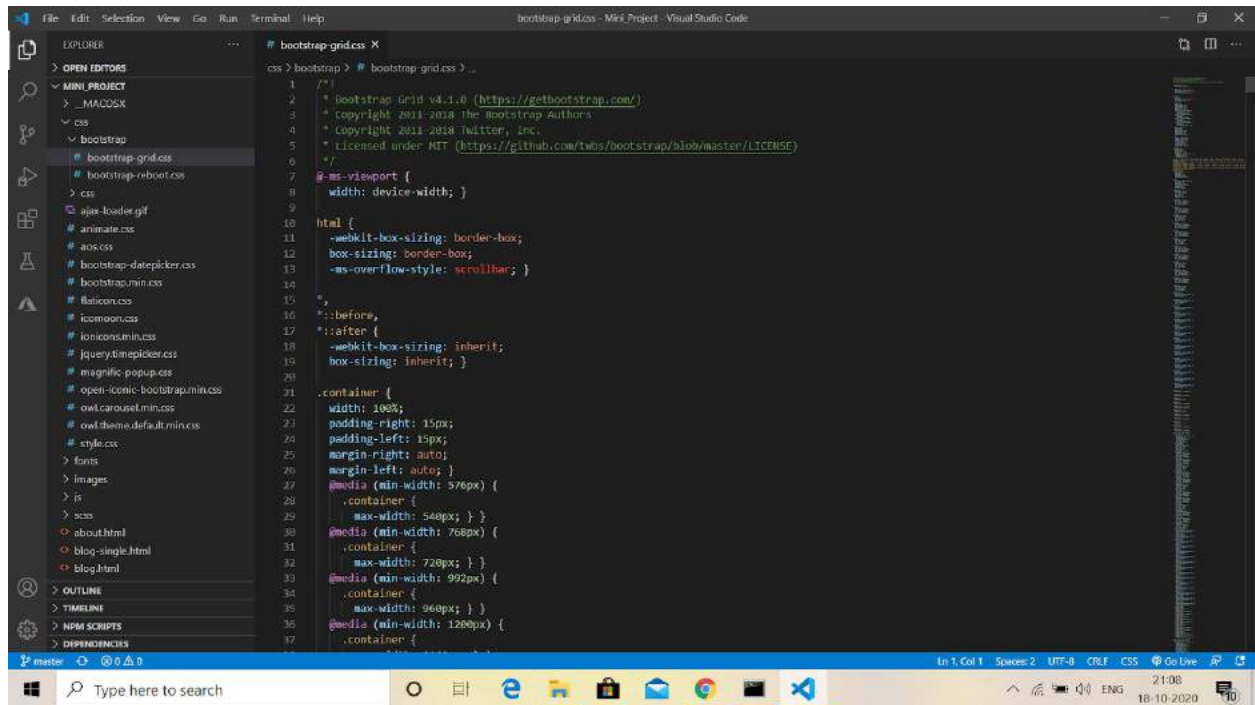


```
1<!DOCTYPE html>
2<html lang="en">
3<head>
4<title>Vegefoods - Free Bootstrap 4 Template by colorlib</title>
5<meta charset="utf-8">
6<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
7
8<link href="https://fonts.googleapis.com/css?family=Poppins:200,300,400,500,600,700,800&display=swap" rel="stylesheet">
9<link href="https://fonts.googleapis.com/css?family=Lora:400,400i,700,700i&display=swap" rel="stylesheet">
10<link href="https://fonts.googleapis.com/css?family=Nunito&display=swap" rel="stylesheet">
11
12<link rel="stylesheet" href="css/open-iconic-bootstrap.min.css">
13<link rel="stylesheet" href="css/animate.css">
14
15<link rel="stylesheet" href="css/owl.carousel.min.css">
16<link rel="stylesheet" href="css/owl.theme.default.min.css">
17<link rel="stylesheet" href="css/magnific-popup.css">
18
19<link rel="stylesheet" href="css/aos.css">
20
21<link rel="stylesheet" href="css/ionicons.min.css">
22
23<link rel="stylesheet" href="css/bootstrap-datepicker.css">
24<link rel="stylesheet" href="css/jquery.timepicker.css">
25
26
27<link rel="stylesheet" href="css/flaticon.css">
28<link rel="stylesheet" href="css/icomoon.css">
29<link rel="stylesheet" href="css/style.css">
30</head>
31<body class="goto-here">
32<div class="py-1 bg-primary">
33<div class="container">
34<div class="row no-gutters d-flex align-items-start align-items-center px-md-0">
35<div class="col-lg-12 d-block">
36<div class="row d-flex">
37<div class="col-md pr-4 d-flex topover align-items-center">
```

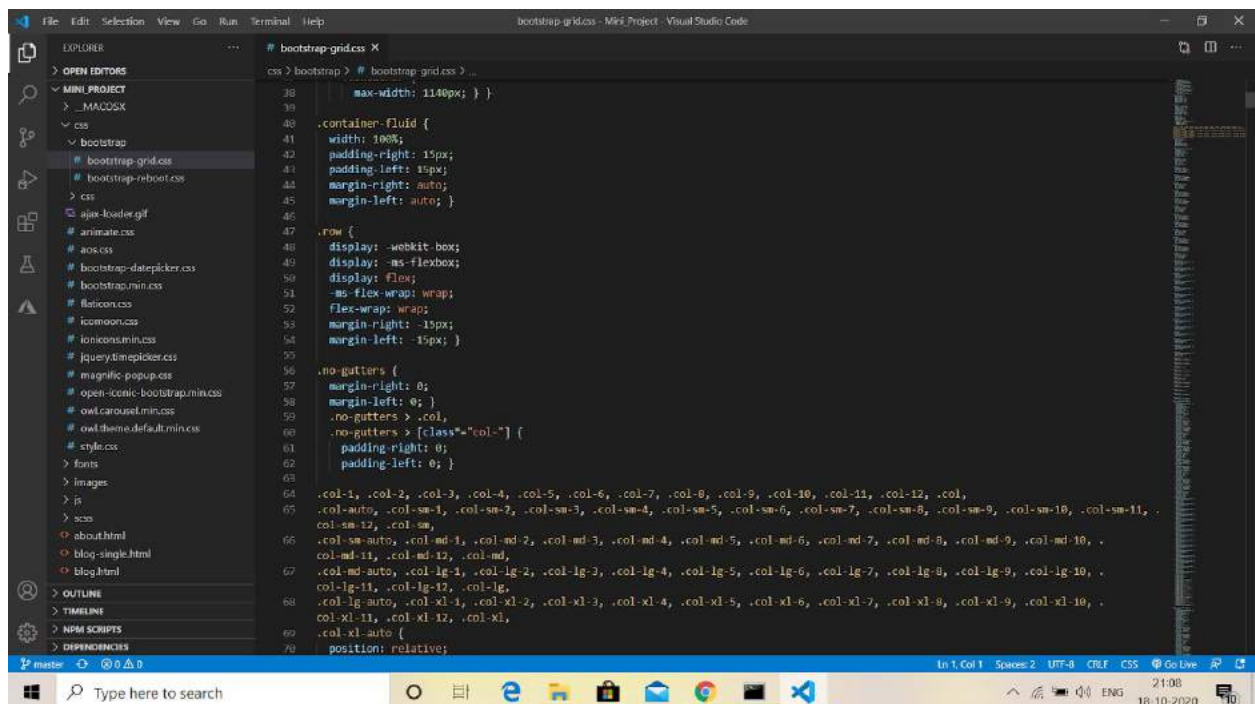


```
37<div class="col-md pr-4 d-flex topover align-items-center">
38<div class="icon mr-2 d-flex justify-content-center align-items-center"><span class="icon-phone2"></span></div>
39<span class="text">+ 1235 2355 98</span>
40</div>
41<div class="col-md pr-4 d-flex topover align-items-center">
42<div class="icon mr-2 d-flex justify-content-center align-items-center"><span class="icon-paper-plane"></span></div>
43<span class="text">yourenail@gmail.com</span>
44</div>
45<div class="col-md-5 pr-4 d-flex topover align-items-center text-lg-right">
46<span class="text">3-5 Business days delivery & Free Returns</span>
47</div>
48</div>
49</div>
50</div>
51</div>
52<div>
53<nav class="navbar navbar-expand-lg navbar-dark ftco_navbar bg-dark ftco-navbar-light" id="ftco-navbar">
54<div class="container">
55<a class="navbar-brand" href="index.html">Vegefoods</a>
56<button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#ftco-nav" aria-expanded="false" aria-label="Toggle navigation">
57<span class="oi oi-menu"></span> Menu
58</button>
59
60<div class="collapse navbar-collapse" id="ftco-nav">
61<ul class="navbar-nav ml-auto">
62<li class="nav-item active"><a href="index.html" class="nav-link">Home</a></li>
63<li class="nav-item dropdown">
64<a class="nav-link dropdown-toggle" href="#" id="dropdown4" data-toggle="dropdown" aria-haspopup="true"
65aria-expanded="false">Shop</a>
66<div class="dropdown-menu" aria-labelledby="dropdown4">
67<a class="dropdown-item" href="shop.html">Shop</a>
68<a class="dropdown-item" href="wishlist.html">Wishlist</a>
69<a class="dropdown-item" href="product-single.html">Single Product</a>
70<a class="dropdown-item" href="cart.html">Cart</a>
```


bootstrap_grid.css



```
1  /*
2  * Bootstrap Grid v4.1.0 (https://getbootstrap.com/)
3  * Copyright 2011-2018 the Bootstrap Authors
4  * Copyright 2011-2018 Twitter, Inc.
5  * Licensed under MIT (https://github.com/twbs/bootstrap/blob/master/LICENSE)
6  */
7  @-ms-viewport {
8    width: device-width;
9  }
10
11  html {
12    -webkit-box-sizing: border-box;
13    box-sizing: border-box;
14    -ms-overflow-style: scrollbar;
15  }
16
17  *,
18  *:before,
19  *:after {
20    -webkit-box-sizing: inherit;
21    box-sizing: inherit;
22  }
23
24  .container {
25    width: 100%;
26    padding-right: 15px;
27    padding-left: 15px;
28    margin-right: auto;
29    margin-left: auto;
30  }
31  @media (min-width: 576px) {
32    .container {
33      max-width: 540px;
34    }
35  }
36  @media (min-width: 768px) {
37    .container {
38      max-width: 720px;
39    }
40  }
41  @media (min-width: 992px) {
42    .container {
43      max-width: 960px;
44    }
45  }
46  @media (min-width: 1200px) {
47    .container {
48      max-width: 1140px;
49    }
50  }
```



```
51  .row {
52    display: -webkit-box;
53    display: -ms-flexbox;
54    display: flex;
55    -ms-flex-wrap: wrap;
56    flex-wrap: wrap;
57    margin-right: -15px;
58    margin-left: -15px;
59  }
60
61  .no-gutters {
62    margin-right: 0;
63    margin-left: 0;
64    .no-gutters > .col,
65    .no-gutters > [class*=col-] {
66      padding-right: 0;
67      padding-left: 0;
68    }
69  }
70
71  .col-1, .col-2, .col-3, .col-4, .col-5, .col-6, .col-7, .col-8, .col-9, .col-10, .col-11, .col-12, .col-
72  .col-auto, .col-sm-1, .col-sm-2, .col-sm-3, .col-sm-4, .col-sm-5, .col-sm-6, .col-sm-7, .col-sm-8, .col-sm-9, .col-sm-10, .col-sm-11, .col-sm-12, .col-sm-
73  .col-sm-auto, .col-md-1, .col-md-2, .col-md-3, .col-md-4, .col-md-5, .col-md-6, .col-md-7, .col-md-8, .col-md-9, .col-md-10, .col-md-11, .col-md-12, .col-md-
74  .col-md-auto, .col-lg-1, .col-lg-2, .col-lg-3, .col-lg-4, .col-lg-5, .col-lg-6, .col-lg-7, .col-lg-8, .col-lg-9, .col-lg-10, .col-lg-11, .col-lg-12, .col-lg-
75  .col-lg-auto, .col-xl-1, .col-xl-2, .col-xl-3, .col-xl-4, .col-xl-5, .col-xl-6, .col-xl-7, .col-xl-8, .col-xl-9, .col-xl-10, .col-xl-11, .col-xl-12, .col-xl-
76  .col-xl-auto {
77    position: relative;
78  }
```

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