

Introduction

Agenda
Responsive Webpage Design
Understand Bootstrap
History of Bootstrap
Grid system
Bootstrap Typography

Understand Responsive Web Design

RWD (Responsive Web Design) refers to a webpage content gets adjusted in the row as per current device size (provides easy reading and navigation), make content readable.

Following are the available device categories:

	Device Categories	Example	Size in pixels
	Large (lg)	Large Desktop Screen	>= 1200px
	Medium (md)	Medium Desktop Screen	992px to 1199px
	Small (sm)	Like Tabs	786px to 992px
	eXtra Small (xs)	Mobile Phones	<786px

The application adapted to the screen size based on the tool we use

Understand Bootstrap		
<p>Bootstrap is used to create <u>Responsive Web Pages</u>.</p> <p>Bootstrap is a library contains JAVASCRIPT, CSS and JQUERY files.</p> <p>RWD pages containing contents which are adjusted accordingly on Larger Desktop Screen, Medium Screen, Small screens, Mobile phone screens</p> <table><tr><td>History of Bootstrap</td></tr><tr><td><p>Bootstrap is a free and open framework for developing Responsive Web Pages, developed by Mark Otto and Jacob Thronton at Twitter as a framework.</p><p>Released on Aug 2011</p><p>Advantages:</p><ul style="list-style-type: none">Mobile First ApproachBrowser SupportEasy to get startedResponsive Web Page Design</td></tr></table> <p>Bootstrap based on all open standard frameworks like HTML5, CSS3, JQUERY, etc., Bootstrap contains HTML and CSS based templates for Text, Form, Button, Navigation and other components.</p> <p>URL: http://getbootstrap.com</p> <p>Before Bootstrap we use to have two different web sites for Desktop and Mobile separately.</p>	History of Bootstrap	<p>Bootstrap is a free and open framework for developing Responsive Web Pages, developed by Mark Otto and Jacob Thronton at Twitter as a framework.</p> <p>Released on Aug 2011</p> <p>Advantages:</p> <ul style="list-style-type: none">Mobile First ApproachBrowser SupportEasy to get startedResponsive Web Page Design
History of Bootstrap		
<p>Bootstrap is a free and open framework for developing Responsive Web Pages, developed by Mark Otto and Jacob Thronton at Twitter as a framework.</p> <p>Released on Aug 2011</p> <p>Advantages:</p> <ul style="list-style-type: none">Mobile First ApproachBrowser SupportEasy to get startedResponsive Web Page Design		

Introduction

Bootstrap Grid System

A container in a browser page is categorized in rows and column format
As per the Bootstrap grid system every row is collection of 12 columns
Bootstrap rows are based on column, if the content failed to adjust in the same rows gets carried to next row

1	2	3	4	5	6	7	8	9	10	11	12
col-lg-1											
col-lg-2		col-lg-3			col-lg-4				col-lg-3		
col-lg-4				col-lg-4				col-lg-4			
col-lg-6						col-lg-6					
col-lg-12											
col-lg-5					col-lg-2		col-l-5				

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

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

How bootstrap works?

Bootstrap makes RWD based on Grid System.
As per the Bootstrap the Web Page row in page divide into 12 columns (unit)

Bootstrap generally works by adding css classes to the html tags

Bootstrap works using cdn links or files

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" />
```

Understand Grid System

Grid refers to division of the container into rows and columns.
Grid system help in creating page layout through a series of rows and column, the web page content will be provided into the Grid System.
Grid behaviour is horizontal all the times, Column with is auto.
Bootstrap includes a responsive, mobile-first Grid system which appropriate scales upto 12 columns in each rows.

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Note: Gutter width 30px(15px each side of column)

Necessary files

Bootstrap files

CSS

Fonts

Js

Boot Strap Source: <http://getbootstrap.com/getting-started/#download>

Download Zip file from <http://getbootstrap.com/getting-started/#download>

Directory Structure:

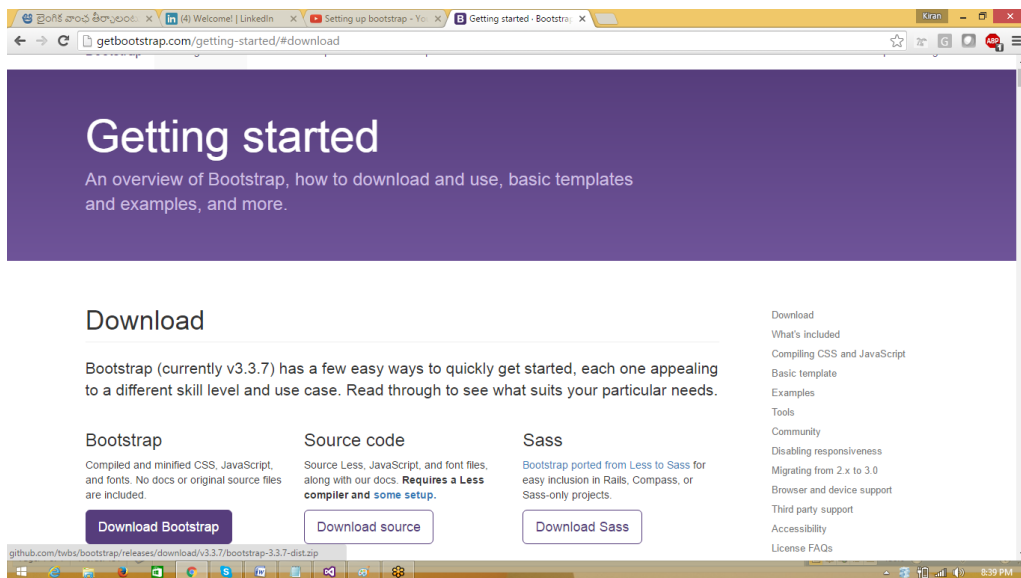
```
bootstrap/
├── css/
│   ├── bootstrap.css
│   ├── bootstrap.min.css
│   ├── bootstrap-theme.css
│   └── bootstrap-theme.min.css
├── js/
│   ├── bootstrap.js
│   └── bootstrap.min.js
└── fonts/
    ├── glyphicons-halflings-regular.eot
    ├── glyphicons-halflings-regular.svg
    ├── glyphicons-halflings-regular.ttf
    └── glyphicons-halflings-regular.woff
```

Target audience

Html / CSS developer

Any UI developer from JSP, ASP.NET, PHP, etc.,

Introduction



	Bootstrap class	Purpose
	container	This class refers to area for RWD
	row	This class used to create horizontal one to represent group of columns A container can have more than one row
	col-lg-colsize	Refers to number of column in large screen
	col-xs-offset	Refers to number of offset column
	visible-lg	Make the area visible on particular category

	Device Categories	Size in pixel	Bootstrap class
	Large Devices - Large Desktop Screen	>=1200px	col-lg-*
	Medium Devices - Small Desktop Screen	992px – 1199px	col-md-*
	Small Devices - Like Tabs	786px – 992px	col-sm-*
	eXtra Small Devices - Mobile Phones	<786px	col-xs-*

	Available Bootstrap classes	
	Container	This class is used to represent a boundary in browser output The responsive page may have multiple containers Each and every container should have row
	Row	This class is used to represent an independent row in the browser output
	col classes	This class is used to represent an independent column inside a row col-lg-*, col-md-*, col-sm-*, col-xs-*

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visible	This class used to make the tag visible in responsive bootstrap
Hidden	This class used to make the tag hide the tag in responsive bootstrap
col-device-offset	This class is used to have offset, empty place
Table	Used to have bootstrap table style



Large Screen >1200px size



medium screen 992 to 1199 px

Bootstrap for angular
How to use bootstrap in Angular? 1) Download bootstrap from web site http://getbootstrap.com/ The files gets downloaded 2) install using npm modules gets added in the project import in SPA and register in angular-cli.json

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```
=====
3) use cdn links
    Preferred way ( which will be comfortable while application deployment)
    Note: Remove bootstrap styles and scripts source from angular-cli.json
steps to install bootstrap for Angular
Step1:          npm install bootstrap
                npm install jquery@latest
Step2:          Register bootstrap information within angular-cli.json
angular-cli.json
"styles": [
  "../node_modules/bootstrap/dist/css/bootstrap.min.css",
  "styles.css"
],
"scripts": [
  "../node_modules/bootstrap/dist/js/bootstrap.min.js"
],

Step3:          import bootstrap script files, css, jquery files in index.html page (SPA)
index.html page:
<script src="../node_modules/bootstrap/dist/js/bootstrap.min.js"></script>

<link rel="stylesheet" href="../node_modules/bootstrap/dist/css/bootstrap.min.css">

<script src="../node_modules/jquery/dist/jquery.min.js"></script>

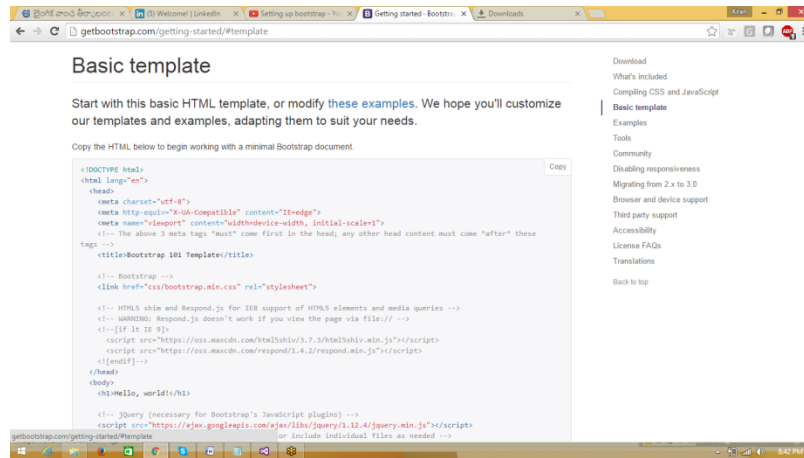
Note: After doing changes in angular.json the project should be restarted
```

Structure of Grid System

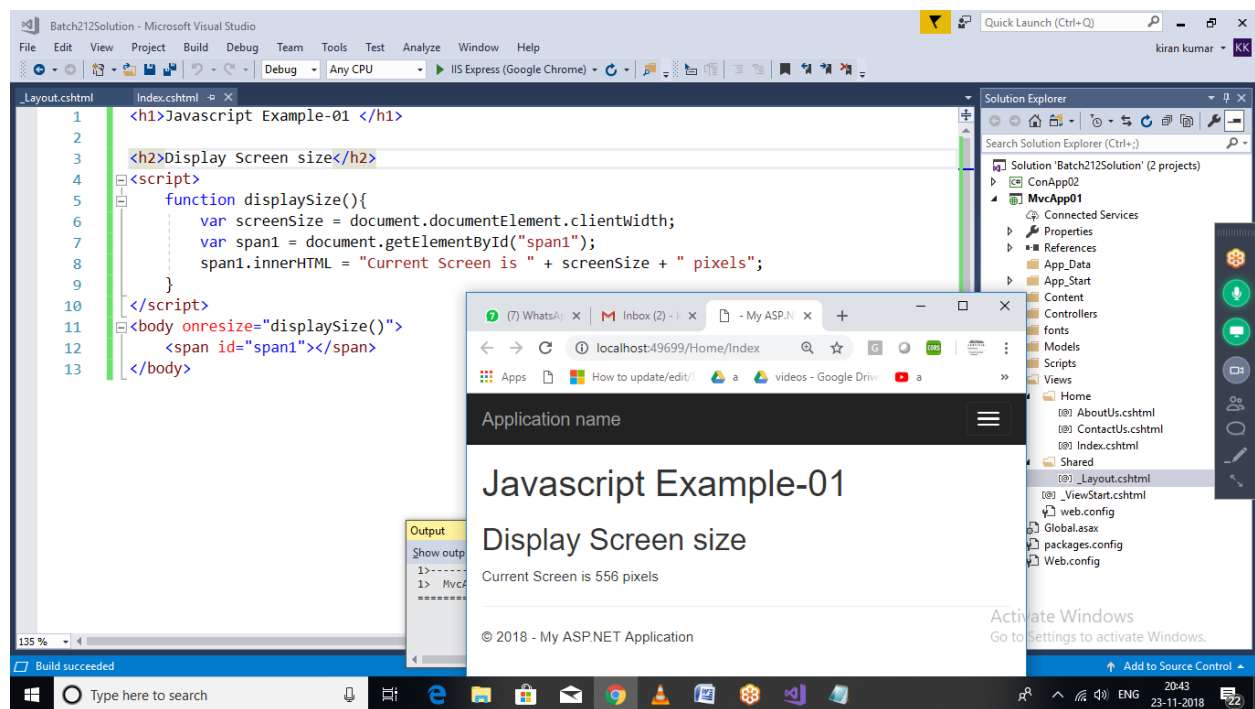
```
<h2>Grid System basic structure </h2>

<div class="container">
  <div class="row">
    <div class="col-*.**"></div>
  </div>
  <div class="row">
    <div class="col-*.**"></div>
    <div class="col-*.**"></div>
  </div>
</div>
```

Introduction



	Bootstrap uses defaults	
Fonts		Helvetica, Neue Helvetica, Arial, sans serif
Font-size		14pixel
Line height		1.428



Introduction

Display current screen size and screen type

```
<script>
    function displaySize(){
        var screenSize = document.documentElement.clientWidth;
        var span1 = document.getElementById("span1");
        span1.innerHTML = "Current Screen is " + screenSize + " pixels<br/>";
        if (screenSize >= 1200)
            span1.innerHTML += "Current Screen Type is : Large Screen Display";
        else if (screenSize >= 992)
            span1.innerHTML += "Current Screen Type is : Medium Screen Display";
        else if (screenSize >= 786)
            span1.innerHTML += "Current Screen Type is : Small Screen Display";
        else
            span1.innerHTML += "Current Screen Type is : Extra Small Screen Display";
    }
</script>
<body onresize="displaySize()">
    <h2>Javascript code to display current screen size</h2>
    <span id="span1"></span>
</body>
```

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
<link
rel="stylesheet"href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" />
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>

<div class="visible-lg" style="color:red">
    <h1>Currently Large Screen</h1>
</div>
<div class="visible-md" style="color:blue">
    <h1>Currently Medium Screen</h1>
</div>
<div class="visible-sm" style="color:green">
    <h1>Currently Small Screen</h1>
</div>
<div class="visible-xs" style="color:cyan">
    <h1>Currently Extra Small Screen</h1></div>
</div>
```

Screen size using bootstrap

Introduction

```
<head>
  <link rel="stylesheet"href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7
/css/bootstrap.min.css" />
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.mi
n.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap
.min.js"></script>
  <style>
    .greenBorderClass{
      border: 5px solid green
    }
  </style>
</head>
<div class="container">
  <div class="row">
    <div class="visible-lg">
      <h1>Currently Large Screen</h1>
    </div>
    <div class="visible-md">
      <h1>Currently Medium Screen</h1>
    </div>
    <div class="visible-sm">
      <h1>Currently Small Screen</h1>
    </div>
    <div class="visible-xs">
      <h1>Currently Extra Small Screen</h1></div>
  </div>
</div>
</div>
```

Different number of columns in different screen sizes

```
<head>
  <link rel="stylesheet"href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
/>
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
```

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```
<style>
    .greenBorderClass{
        border: 5px solid green
    }
</style>
</head>
<div class="container">
    <div class="row">
        <div class="visible-lg">
            <h1>Currently Large Screen, You can see 4 columns per row</h1>
        </div>
        <div class="visible-md">
            <h1>Currently Medium Screen, You can see 3 columns per row</h1>
        </div>
        <div class="visible-sm">
            <h1>Currently Small Screen, You can see 2 columns per row</h1>
        </div>
        <div class="visible-xs">
            <h1>Currently Extra Small Screen, You can see 1 columns per row</h1></div>
    </div>

    <div class="row">
        <div class="col-lg-3 col-md-4 col-sm-6 col-xs-12">
            <div class="greenBorderClass"> <h3>Div1: First Column </h3> </div>
        </div>

        <div class="col-lg-3 col-md-4 col-sm-6 col-xs-12">
            <div class="greenBorderClass"> <h3>Div2:Second Column </h3> </div>
        </div>

        <div class="col-lg-3 col-md-4 col-sm-6 col-xs-12">
            <div class="greenBorderClass"> <h3>Div3: Third Column </h3> </div>
        </div>

        <div class="col-lg-3 col-md-4 col-sm-6 col-xs-12">
            <div class="greenBorderClass"> <h3>Div4:Fourth Column </h3> </div>
        </div>
    </div>
</div>
```

How to include bootstrap?

Download the bootstrap source files
Use CDN links

Introduction

BootStrap, Example-1
<pre><!-- Latest compiled and minified CSS --> <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" integrity="sha384-BVYiISiFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u" crossorigin="anonymous"> <!-- Optional theme --> <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap-theme.min.css" integrity="sha384-rHyoN1iRsVXV4nD0JutlnGaslCJuC7uwjduW9SVrLvRYooPp2bWYgmgJQIXwl/Sp" crossorigin="anonymous"> <!-- Latest compiled and minified JavaScript --> <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js" integrity="sha384-Tc5IQib027qvyjSMfHjOMaLkfuWVxZxUPnPnJA7I2mCWNlIpG9mGCD8wGNlCPD7Txa" crossorigin="anonymous"></script> <h1>Boot Strap, Example -1 </h1></pre>

BootStrap, Example-2
<pre><style> .divBorder{ border: 2px solid black; height: 300px; padding:5px; } </style> <h1>Boot Strap, Example -1 </h1> <div class="container"> <div class="row"> <div class="col-md-2 divBorder">Left Bar</div> <div class="col-md-8 divBorder">Mid Bar</div> <div class="col-md-2 divBorder">Right Bar</div> </div> </div></pre>

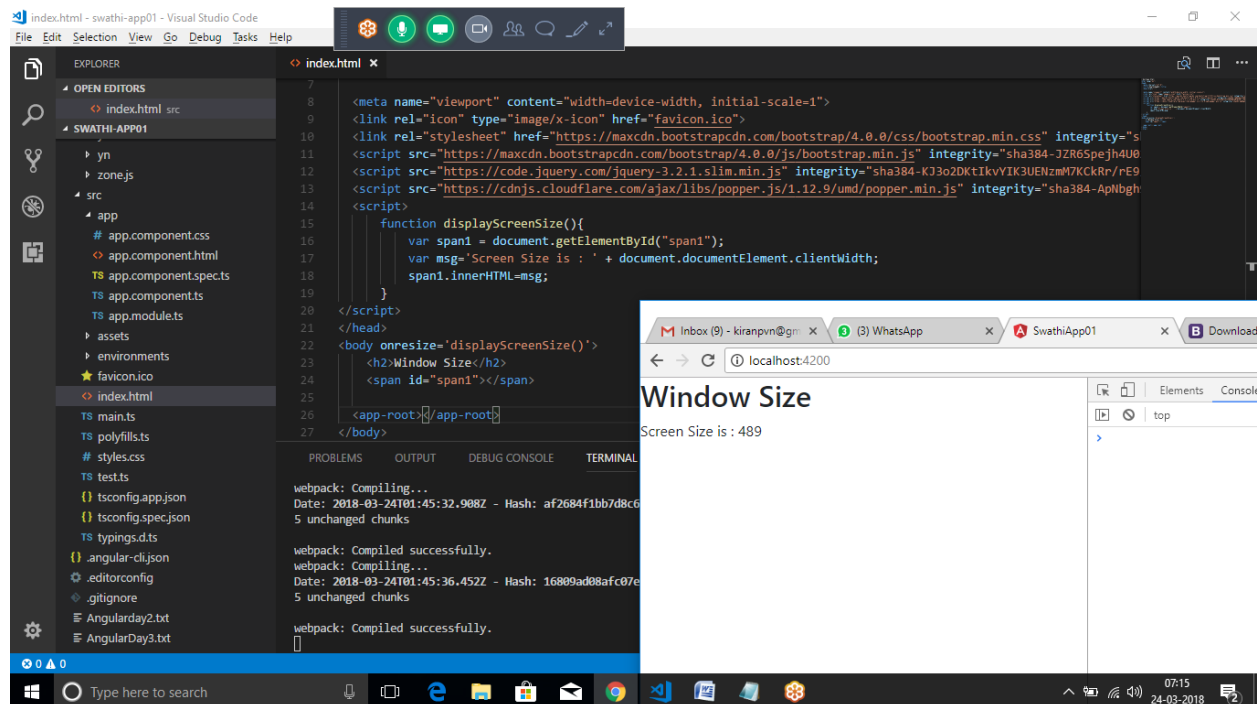
Introduction

Display window size using javascript

```
<script>
function getSize(){
    var t1 = document.getElementById('t1');
    t1.value= document.documentElement.clientWidth;
}
</script>
<body onresize='getSize()'>
<h2>Window Size</h2>
    <input type="text" id="t1">
</body>
```



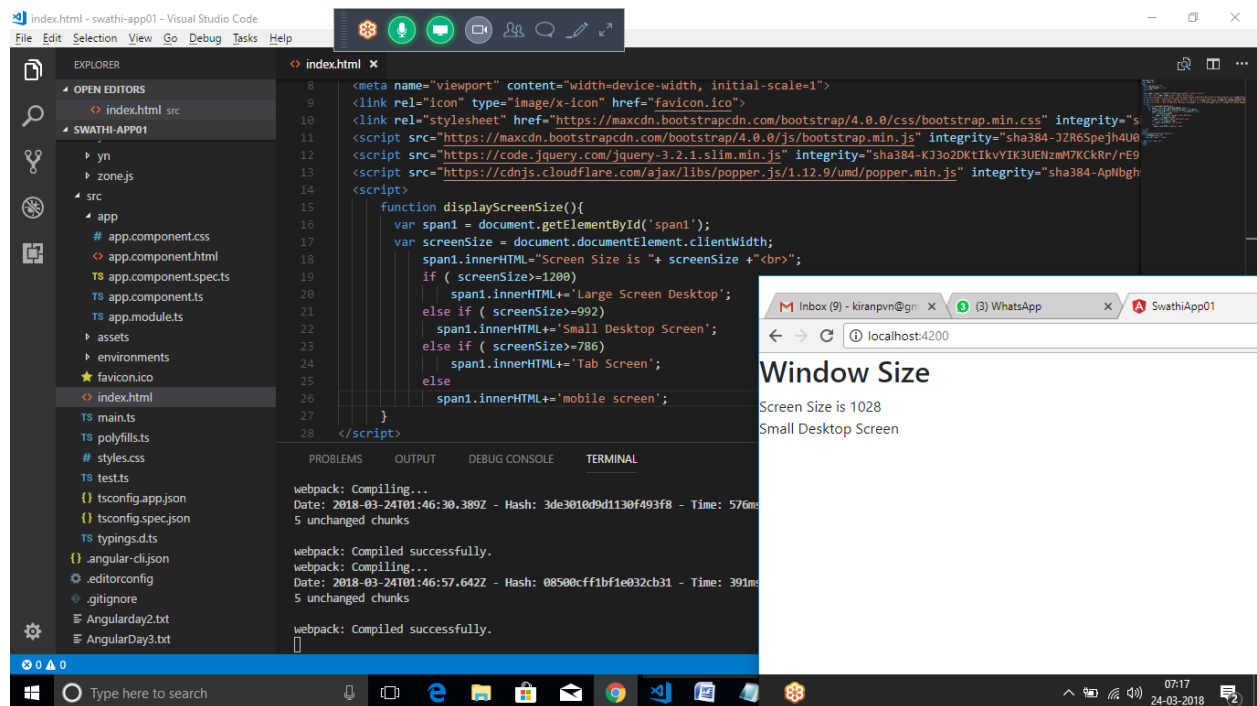
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Display window size using javascript

```
<script>
Function getSize(){
var span1 = document.getElementById('span1');
var screenSize = document.documentElement.clientWidth;
span1.innerHTML="Screen Size is " + screenSize + "<br>";
if ( screenSize>=1200)
span1.innerHTML+='Large Screen Desktop';
elseif ( screenSize>=992)
span1.innerHTML+='Small Desktop Screen';
elseif ( screenSize>=786)
span1.innerHTML+='Tab Screen';
else
span1.innerHTML+='mobile screen';
}
</script>
<body onresize='getSize()'>
<h2>Window Size</h2>
<span id="span1"></span>
</body>
```

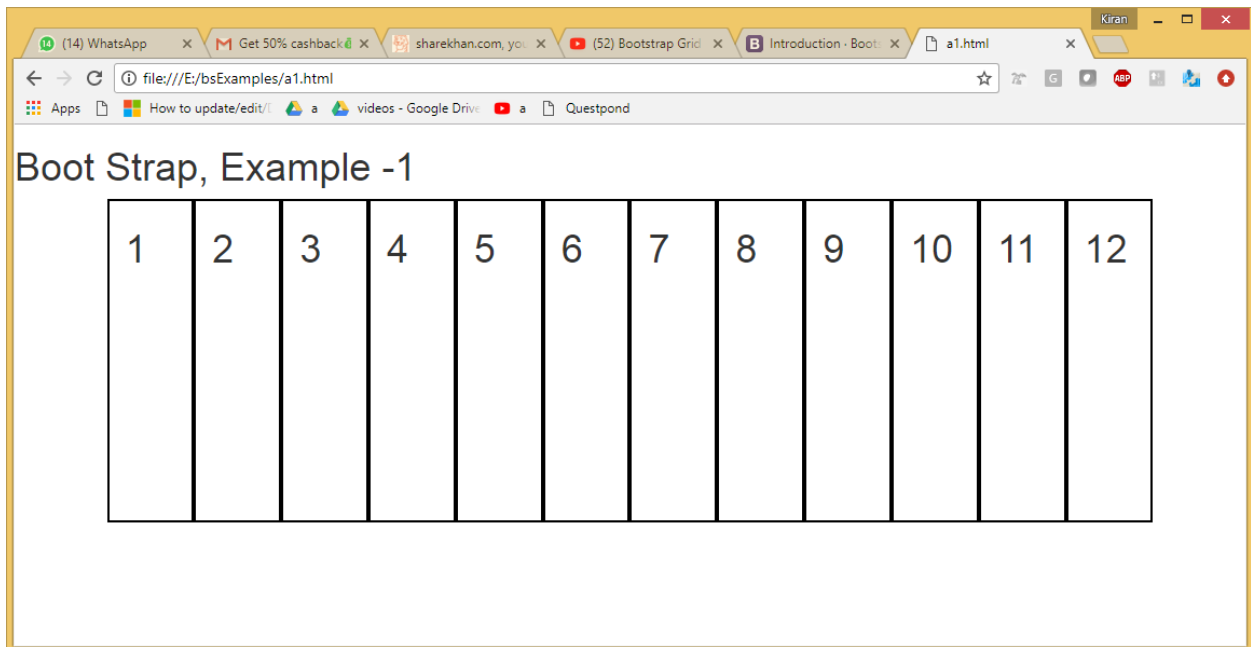
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BootStrap, Example-3

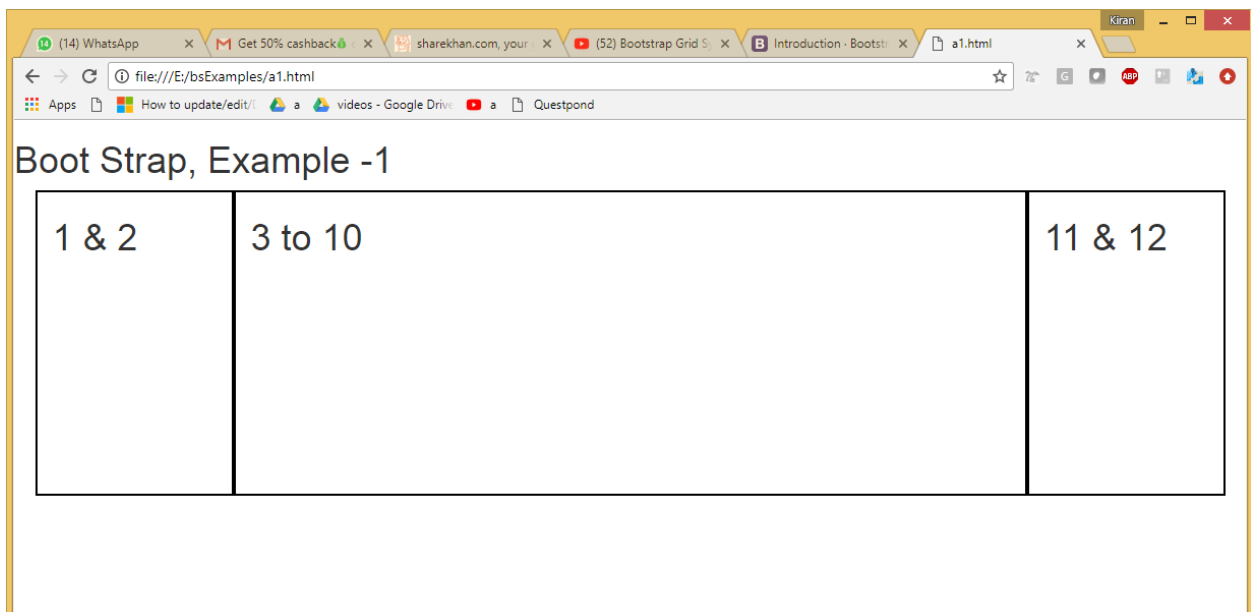
```
<h1>Boot Strap, Example -1 </h1>
<div class="container">
<div class="row">
<div class="col-md-1 border"><h1>1</h1></div>
<div class="col-md-1 border"><h1>2</h1></div>
<div class="col-md-1 border"><h1>3</h1></div>
<div class="col-md-1 border"><h1>4</h1></div>
<div class="col-md-1 border"><h1>5</h1></div>
<div class="col-md-1 border"><h1>6</h1></div>
<div class="col-md-1 border"><h1>7</h1></div>
<div class="col-md-1 border"><h1>8</h1></div>
<div class="col-md-1 border"><h1>9</h1></div>
<div class="col-md-1 border"><h1>10</h1></div>
<div class="col-md-1 border"><h1>11</h1></div>
<div class="col-md-1 border"><h1>12</h1></div>
</div>
</div>
```



Introduction

BootStrap, Example-3

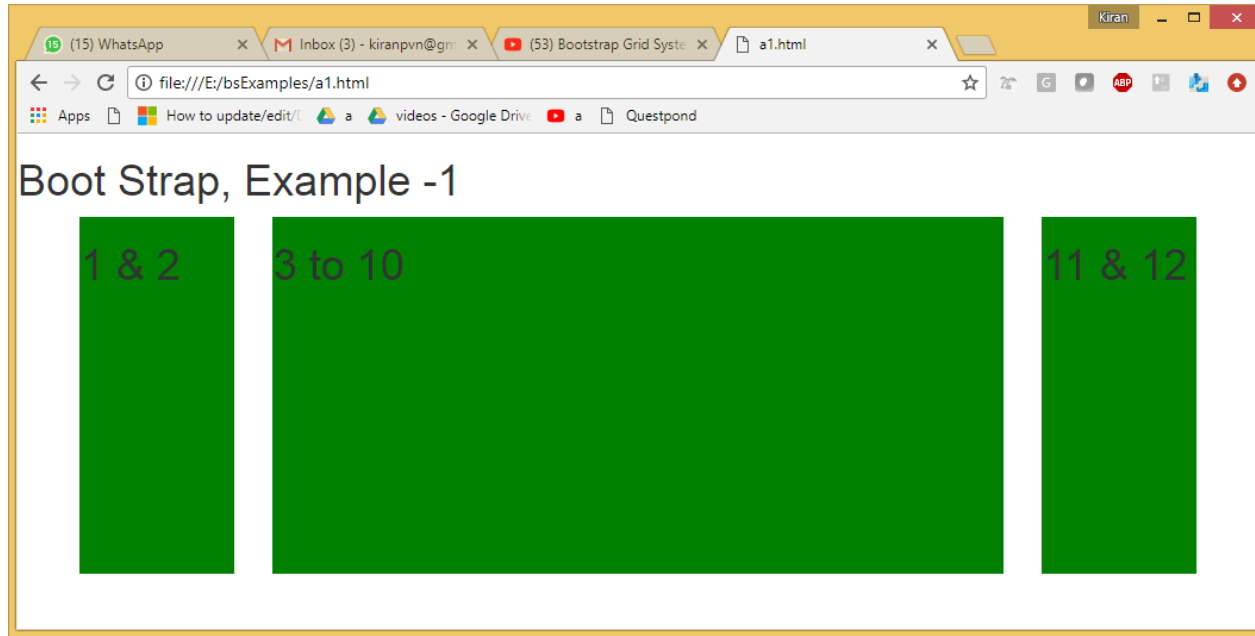
```
<h1>Boot Strap, Example -1 </h1>
<div class="container">
<div class="row">
<div class="col-md-2 border"><h1>1 & 2</h1></div>
<div class="col-md-8 border"><h1>3 to 10</h1></div>
<div class="col-md-2 border"><h1>11 & 12</h1></div>
</div>
</div>
```



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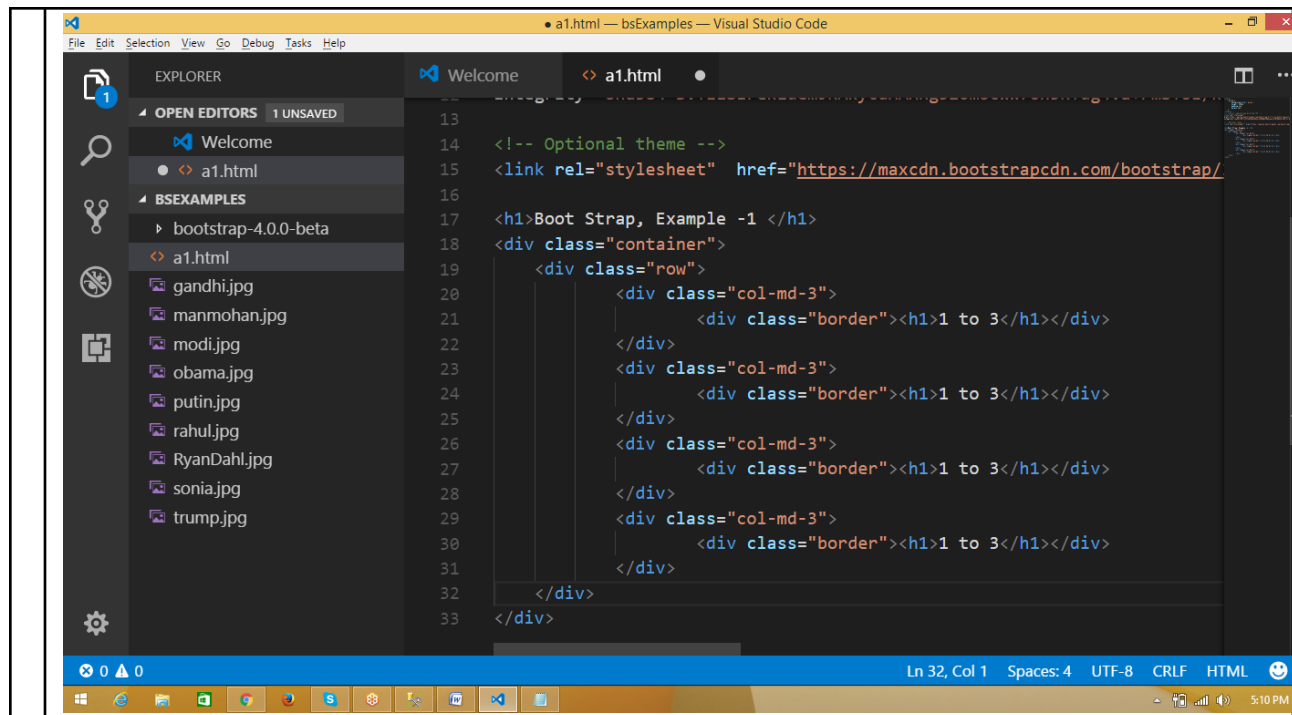
BootStrap, Example-4
<pre><style> .border{ background-color: green; height: 300px; padding:1px; margin:1px; } </style> <h1>Boot Strap, Example -1 </h1> <div class="container"> <div class="row"> <div class="col-md-2"> <div class="border"><h1>1 & 2</h1></div> </div> <div class="col-md-8"> <div class="border"><h1>3 to 10</h1></div> </div> <div class="col-md-2"> <div class="border"><h1>11 & 12</h1></div> </div> </div> </div> </div></pre>

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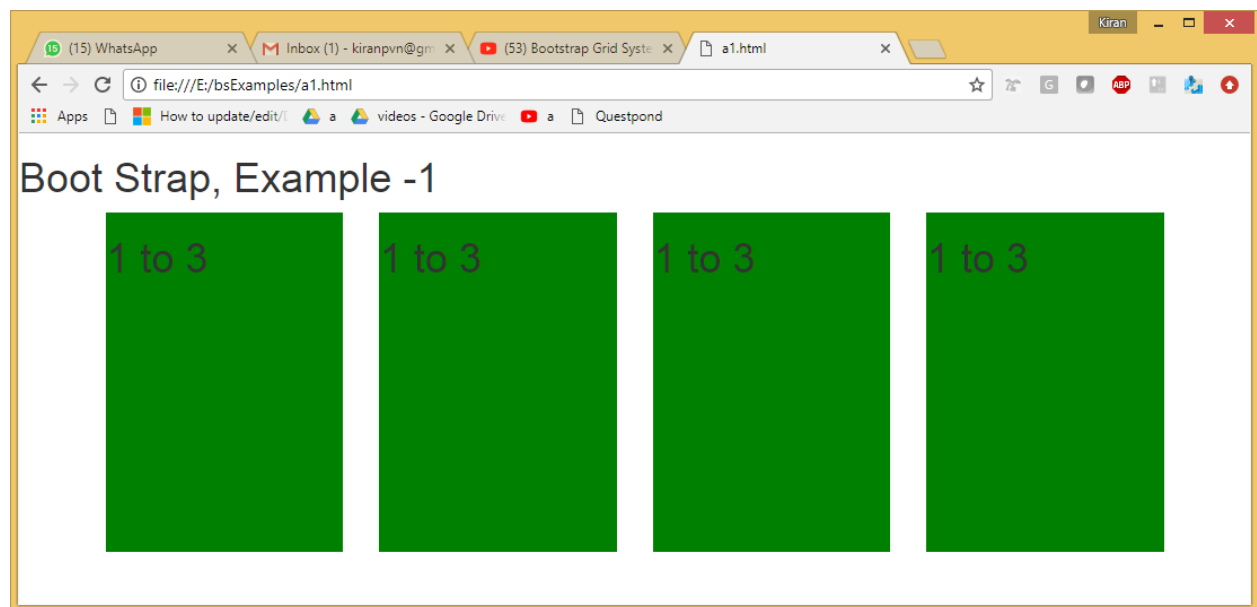


--	--

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```
13
14 <!-- Optional theme -->
15 <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/
16
17 <h1>Boot Strap, Example -1 </h1>
18 <div class="container">
19   <div class="row">
20     <div class="col-md-3">
21       <div class="border"><h1>1 to 3</h1></div>
22     </div>
23     <div class="col-md-3">
24       <div class="border"><h1>1 to 3</h1></div>
25     </div>
26     <div class="col-md-3">
27       <div class="border"><h1>1 to 3</h1></div>
28     </div>
29     <div class="col-md-3">
30       <div class="border"><h1>1 to 3</h1></div>
31     </div>
32   </div>
33 </div>
```



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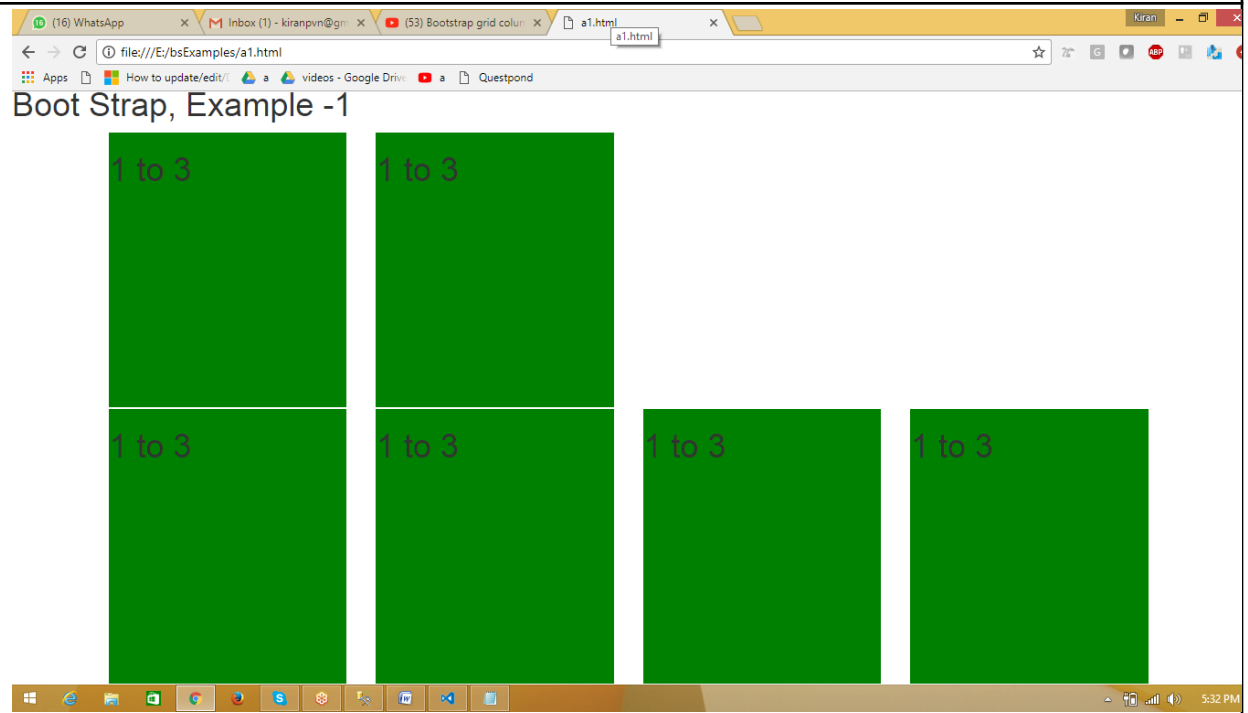
	Display screen size in bootstrap
	<pre><div class="container"> <div class="row"> <div class="visible-lg">Large Display screen</div> <div class="visible-md">Medium Display screen</div> <div class="visible-sm">Small screen</div> <div class="visible-xs">Extra small screen</div> </div> </div></pre>

	<pre><h1>Boot Strap, Example -1 </h1> <div class="container"> <div class="row"> <div class="col-md-3 col-lg-9 col-sm-6"> <div class="border"><h1>1 to 3</h1></div> </div> <div class="col-md-3 col-lg-3 col-sm-6"> <div class="border"><h1>1 to 3</h1></div> </div> <div class="col-md-3 col-lg-9 col-sm-6"> <div class="border"><h1>1 to 3</h1></div> </div> <div class="col-md-3 col-lg-3 col-sm-6"> <div class="border"><h1>1 to 3</h1></div> </div> </div> </div> </div> </div></pre>

```
<div class="container">
  <div class="row">
    <div class="col-md-3">
      <div class="border"><h1>1 to 3</h1></div>
    </div>
    <div class="col-md-3">
      <div class="border"><h1>1 to 3</h1></div>
    </div>
  </div>
</div>
<divclass="row">
<divclass="col-md-3">
<divclass="border"><h1>1 to 3</h1></div>
</div>
<divclass="col-md-3">
<divclass="border"><h1>1 to 3</h1></div>
</div>
<divclass="col-md-3">
<divclass="border"><h1>1 to 3</h1></div>
</div>
<divclass="col-md-3">
```

Introduction

```
<div class="border"><h1>1 to 3</h1></div>
</div>
</div>
</div>
```



Offset class

Offset class in bootstrap is used to provide offset, space will be given between columns in grid

	col-xs-offset-*	
	col-sm-offset-*	
	col-md-offset-*	
	col-lg-offset-*	

Class	Type of screen
Col-xs	Mobile phone
Cols-sm	Small screen(Tab size)

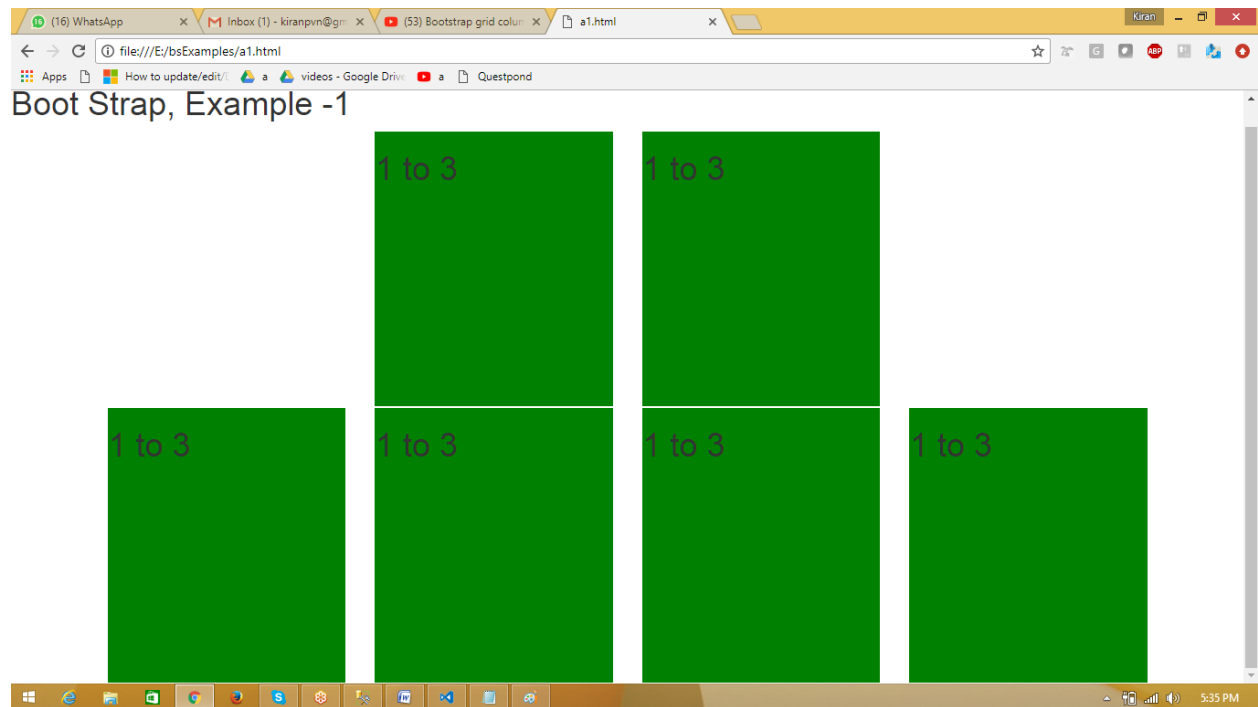
	Cols-md	Middle level
	Col-lg	Large screen

```
Example1
```

```
<h2>offset columns in different rows</h2>  
<div class="container">  
  <div class="row">  
    <div class="col-md-3 col-md-offset-3">  
      <div class="border"><h1>1 to 3</h1></div>  
    </div>  
    <div class="col-md-3">  
      <div class="border"><h1>1 to 3</h1></div>  
    </div>  
  </div>  
  <div class="row">  
    <div class="col-md-3">  
      <div class="border"><h1>1 to 3</h1></div>  
    </div>  
    <div class="col-md-3">  
      <div class="border"><h1>1 to 3</h1></div>  
    </div>  
    <div class="col-md-3">  
      <div class="border"><h1>1 to 3</h1></div>  
    </div>  
    <div class="col-md-3">  
      <div class="border"><h1>1 to 3</h1></div>  
    </div>  
  </div>  
</div>
```

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*



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	<pre><h2>Bootstrap Abbreviation Example</h2> <p>The <abbrtitle="World Health Organization">WHO</abbr> was founded in 1948.</p></pre>

	Offset example2
	<pre><h2>offset columns in different rows</h1> <divclass="container"> <divclass="row"> <divclass="col-md-3"> <divclass="border"><h1>1 to 3</h1></div> </div> <divclass="col-md-3 col-md-offset-6"> <divclass="border"><h1>1 to 3</h1></div> </div> </div> <divclass="row"> <divclass="col-md-3"> <divclass="border"><h1>1 to 3</h1></div> </div> <divclass="col-md-3"> <divclass="border"><h1>1 to 3</h1></div> </div> <divclass="col-md-3"> <divclass="border"><h1>1 to 3</h1></div> </div> <divclass="col-md-3"> <divclass="border"><h1>1 to 3</h1></div> </div> </div> </div> </div></pre>

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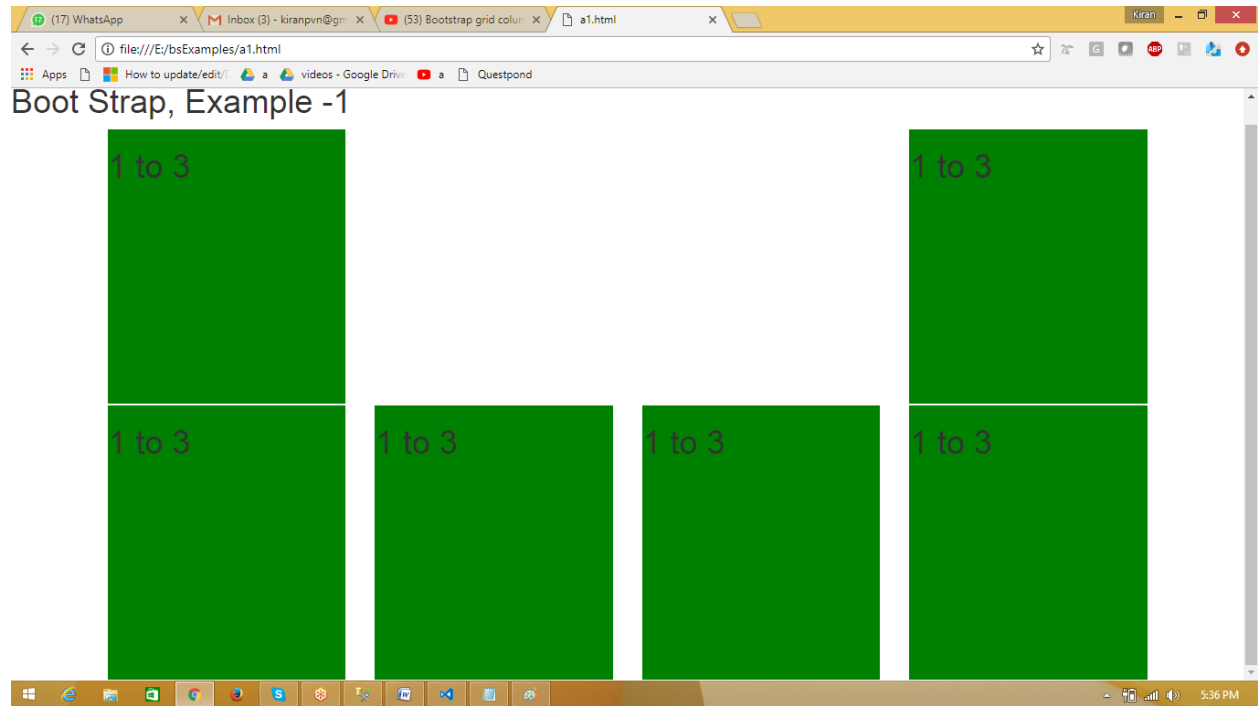


	Image classes	
	Class	Description
	img-responsive	
	img-circle	
	img-thumbnail	
	img-rounded	

Introduction

Visible class
<pre><h1>BootStrap Grid System, Demo-1</h1> <div class="container"> <div class="row"> <div class="visible-lg">Large Screen Size</div> <div class="visible-sm">Small Screen Size</div> <div class="visible-xs">Extra Small Screen Size</div> <div class="visible-md">Medium Screen Side</div> </div> </div></pre>

Visible and hidden classes
<pre><h1>BootStrap Grid System, Demo-1</h1> Four Screen Sizes: <div class="container"> <div class="row"> <div class="visible-lg" style="color:GREEN">Large Screen Size</div> <div class="hidden-lg" style="color:RED"> Large Screen Size</div> <div class="visible-md" style="color:GREEN">Medium Screen Size</div> <div class="hidden-md" style="color:RED"> Medium Screen Size</div> <div class="visible-sm" style="color:GREEN">Small Screen Size</div> <div class="hidden-sm" style="color:RED"> Small Screen Size</div> <div class="visible-xs" style="color:GREEN">Extra Small Screen Size</div> <div class="hidden-xs" style="color:RED"> Extra Screen Size</div> </div> </div></pre>

Bootstrap Typography

Introduction

This feature used to simplify creating styles like Heading, Paragraphs, Ordered lists, Inline etc., While inserting tags within tags, we can use typography (bootstrap classes), will simplify styles

	h1	h2		
	small	big	lead	
	text-right	text-left	text-center	text-justify

Bootstrap provided many class for those styles.

Example1:

```
<!-- Latest compiled and minified CSS -->
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
integrity="sha384-BVYiISiFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u"
crossorigin="anonymous">

<!-- Optional theme -->
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap-theme.min.css"
integrity="sha384-rHyoN1iRsVXV4nD0JutInGaslCJuC7uwjduW9SVrLvRYooPp2bWYgmgJQIXwl/Sp"
crossorigin="anonymous">

<!-- Latest compiled and minified JavaScript -->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"
integrity="sha384-Tc5IQib027qvyjSMfHjOMaLkfuWVxZxUPnCIA7l2mCWNIpG9mGCD8wGNlCPD7Txa"
crossorigin="anonymous"></script>

<h1>Boot Strap, Example -1 </h1>

<h1>Heading1</h1>
<h2>Heading2</h2>
<h3>Heading3</h3>
<h4>Heading4</h4>
<h5>Heading5</h5>
<h6>Heading6</h6>
```

Introduction

Heading class with boot strap
<pre><p> About HTML Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript it forms a triad of cornerstone technologies for the World Wide Web.[3] Web browsers receive HTML documents from a web server or from local storage and render them into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document. </p></pre>

Small class
<pre><p> About HTML Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript it forms a triad of cornerstone technologies for the World Wide Web.[3] Web browsers receive HTML documents from a web server or from local storage and render them into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document. Concepts </p></pre>

Text light alignments classes with in p tag
<pre><h1>BootStrap, Text alignment classes</h1> <p class="text-left">Left Side Text</p> <p class="text-right">Right Side Text</p> <p class="text-center">Center Text</p> <p class="text-justify">Justify Text</p></pre>

Introduction

	Text casing
	<p><h1>BootStrap, text case classes</h1></p> <p><p class="text-lowercase">see the TEXT CASE</p></p> <p><p class="text-uppercase">see the TEXT CASE</p></p> <p><p class="text-capitalize">see the TEXT CASE</p></p>

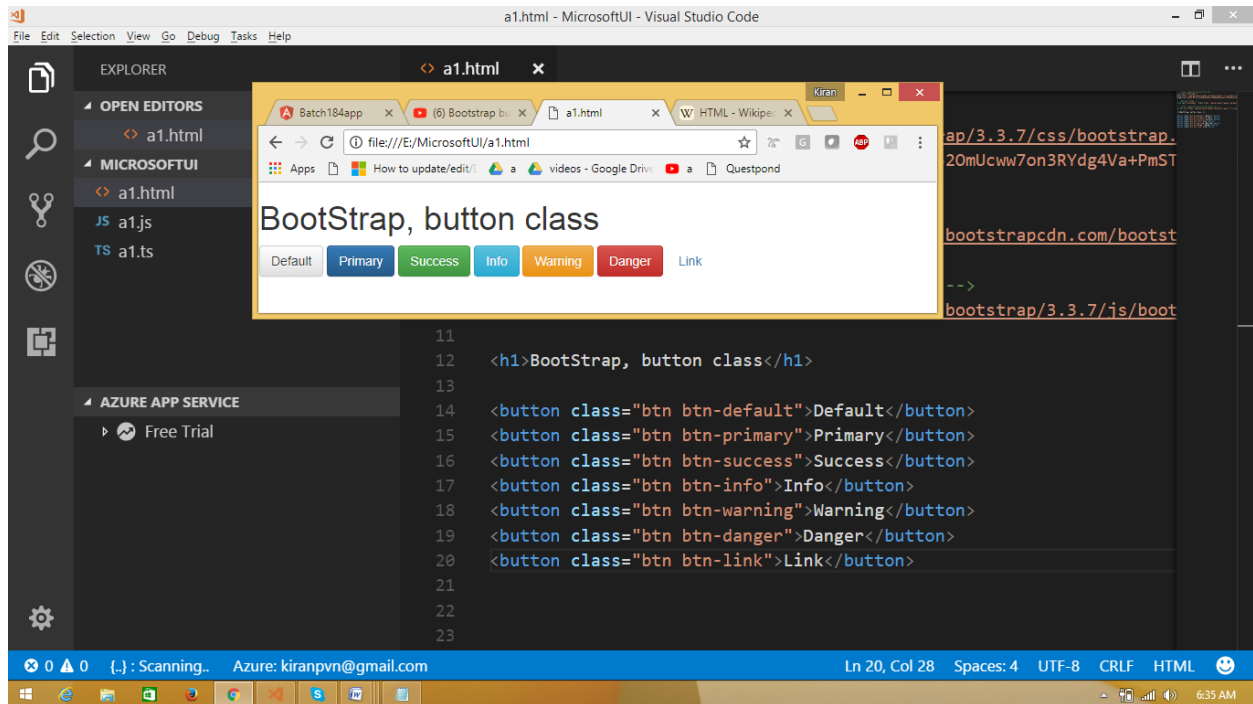
	Lead class
	<p><h1>BootStrap, lead class</h1></p> <p><p class="lead">About Bootstrap</p></p> <p><p>This is used to provide responsive web site</p></p>

Button element classes					
Bootstrap buttons are used provide button with colors (used to recognize category), Using this feature a bootstrap functionality can be added to html input elements					
btn					
btn-default	btn-primary	btn-success	btn-info	btn-warning	btn-danger

Boot strap Buttons:

```
<h1>BootStrap, button class</h1>  
<input type="submit" class="btn">  
<input type="reset" class="btn">  
<input type="button" value="click me" class="btn">  
  
<button class="btn btn-default">Default</button>  
<button class="btn btn-primary">Primary</button>  
<button class="btn btn-success">Success</button>  
<button class="btn btn-info">Info</button>  
<button class="btn btn-warning">Warning</button>  
<button class="btn btn-danger">Danger</button>  
<button class="btn btn-link">Link</button>
```

Introduction



<h1>BootStrap, button class</h1>

Button Classes	Purpose
btn-default	Standard button
btn-primary	Indicates the primary action in a set of buttons
btn-success	Indicates a successful or positive action
btn-info	Indicates a button for informational alert messages
btn-warning	Indicates caution should be taken with this action
btn-danger	Indicates a dangerous or potentially negative action
btn-link	Deemphasize a button by making it look like a link while maintaining button behavior

Introduction

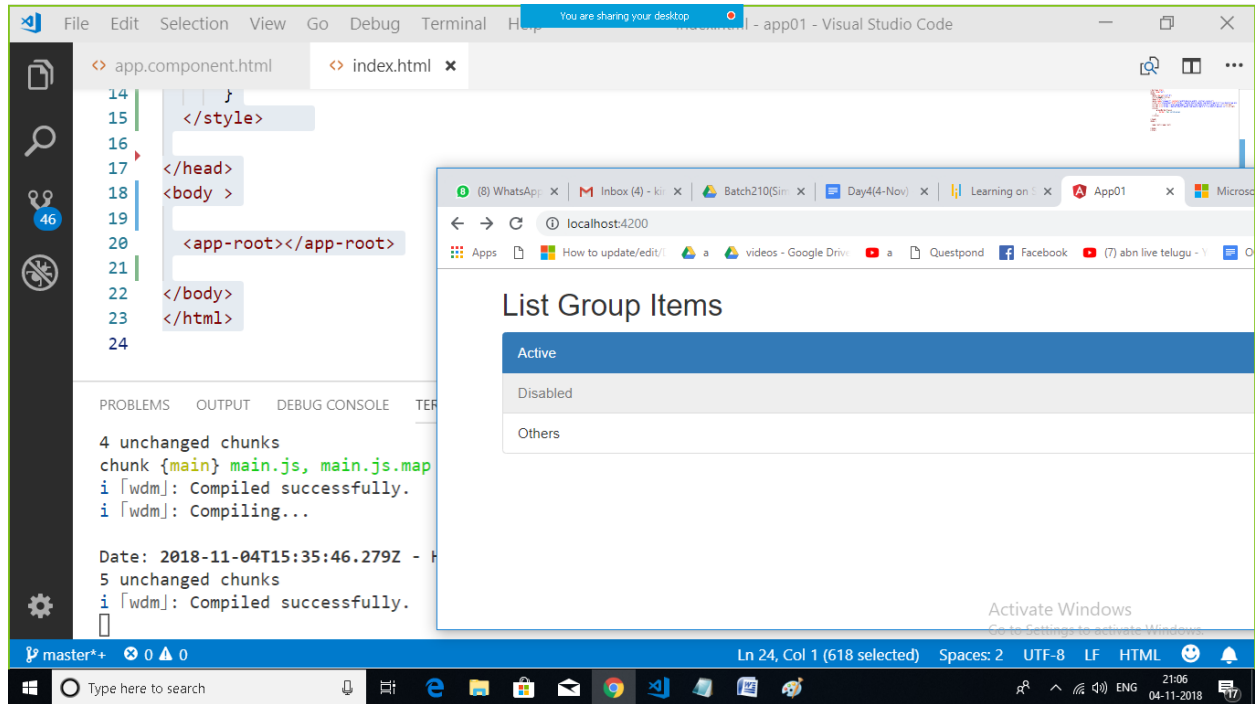
List-group

```
<div class="container">
  <h2>List Group Items</h2>
  <div class="row">
    <div class="col-lg-3">
      <ul class="list-group">
        <li class="list-group-item">Telugu</li>
        <li class="list-group-item">English</li>
        <li class="list-group-item">Hindi</li>
        <li class="list-group-item">Tamil
          <span class="badge">Optional</span>
        </li>
      </ul>
    </div>
  </div>
</div>
```

List-group example-02

```
<div class="container">
  <h2>List Group Items</h2>
  <div class="row">
    <div class="col-lg-3">
      <div class="list-group">
        <a href="http://www.facebook.com" class="list-group-item">Facebook</a>
        <a href="http://www.Twitter.com" class="list-group-item">Twitter</a>
        <a href="http://www.Linkedin.com" class="list-group-item">Linkedin</a>
      </div>
    </div>
  </div>
</div>
```


Introduction



	<pre><div class="container"> <h2>List Group Items</h2> <div class="row"> <div class="col-lg-3"> <ul class="list-group"> <li class="list-group-item active">Active <li class="list-group-item disabled">Disabled <li class="list-group-item">Others </div> </div> </div></pre>

Introduction

Panel classes

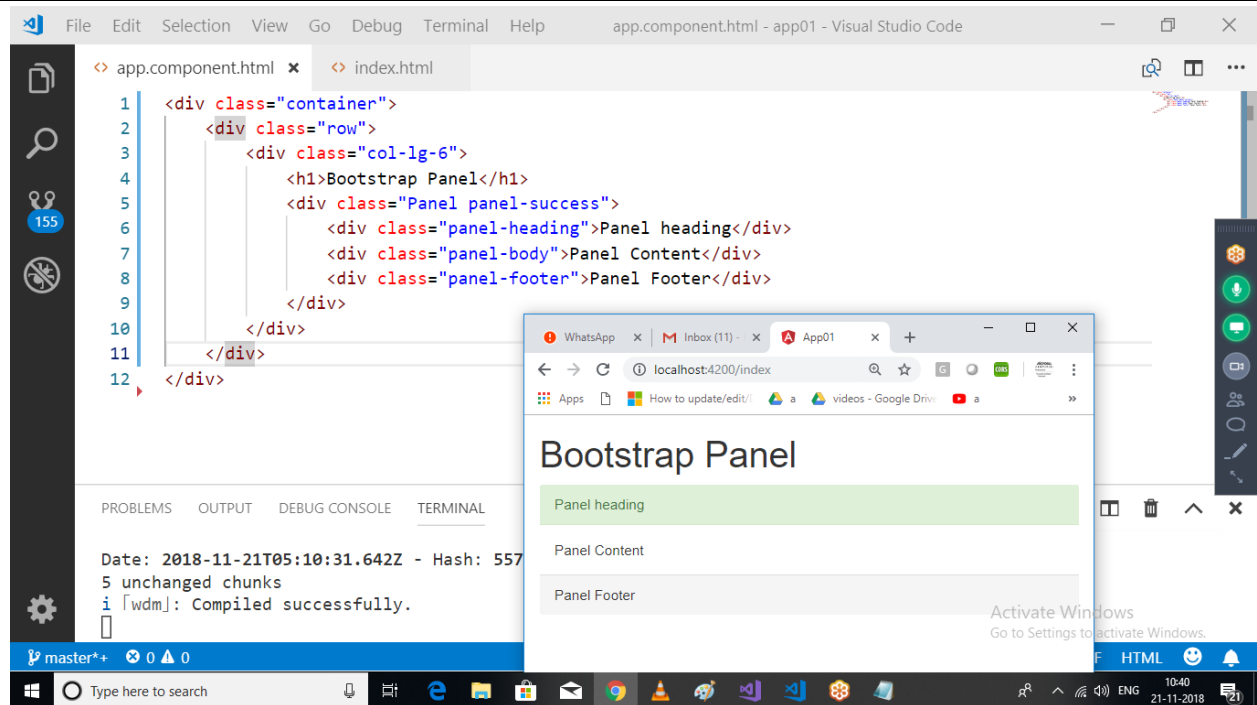
```
<div class="container">
  <h1>Bootstrap Panel</h1>

  <div class="panel panel-success">

    <div class="panel-heading">Panel heading</div>
    <div class="panel-body">Panel Content</div>
    <div class="panel-footer">Panel Footer</div>

  </div>

</div>
```



Introduction

Jumbotron example
<pre><div class="container"> <div class="row"> <div class="col-lg-6"> <h2>jumbotron class example</h2> <div class="jumbotron"> <p>Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile-first projects on the web.</p> </div> </div> </div> </div></pre>

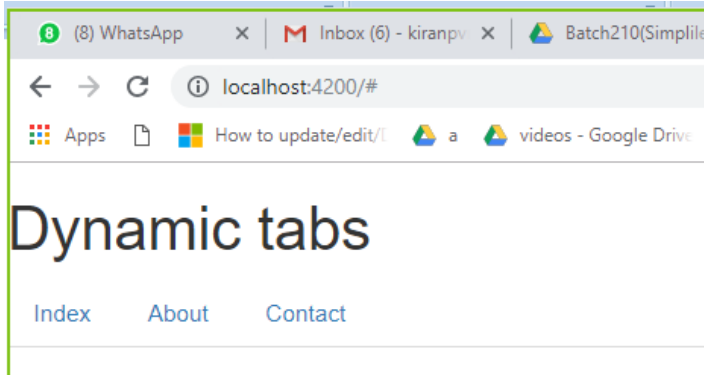
Jumbotron, example-02
<pre><div class="container"> <div class="row"> <h1>Login</h1> <div class="col-lg-4"> <div class="jumbotron"> <input type="text" placeholder="User Name">
 <input type="password" placeholder="Password">

 <button class="btn btn-primary">Login</button> <button class="btn btn-warning">Reset</button> </div> </div> </div> </div></pre>

Introduction

Bootstrap Dynamic Tabs

These are used to provide tables in the browser page
DOM manipulation will be done with the help of jquery



Bootstrap nav class used to create dynamic tabs

```
<h1>Dynamic tabs</h1>
<ul class="nav nav-tabs">
  <li><a href="#">Index</a></li>
  <li><a href="#">About</a></li>
  <li><a href="#">Contact</a></li>
</ul>
```

Above syntax to generate dynamic tabs

Dynamic tabs, example-02

```
<div class="container">
  <div class="row">
    <h1>Dynamic tabs</h1>
    <ul class="nav nav-tabs">
      <li><a href="#index" data-toggle="tab">Index</a></li>
      <li><a href="#about" data-toggle="tab">About</a></li>
      <li><a href="#contact" data-toggle="tab">Contact</a></li>
      <li><a href="#login" data-toggle="tab">login</a></li>
    </ul>

    <div class="tab-content">
      <div id="index" class="tab-pane fade">
        <h1>User Login </h1>
      </div>
      <div id="about" class="tab-pane fade">
        <h1>About</h1>
      </div>
      <div id="contact" class="tab-pane fade">
        <h1>Contact</h1>
      </div>
      <div id="login" class="tab-pane fade">
        <h1>Login </h1>
      </div>
    </div>
  </div>
</div>
```

Introduction

	Glyphicon
	<pre><div class="container"> <div class="row"> <h1>Bootstrap glyphicon</h1> <p>Simple span: </p> <p>Default button with icon: <button type="button" class="btn btn-default">Play </button> </p> <p>search icon on a styled button: <button type="button" class="btn btn-info"> Search </button> </p> <p>Link with icon: Print </p> </div> </div></pre>

	Ex2
	<pre><div class="container"> <div class="row"> <ul class="nav nav-tabs"> <li class="active"> Home </pre>

Introduction

```
</li>
<li class="active">
  <a href="#"><span class="glyphicon glyphicon-earphone">
Contact</span></a>
</li>
<li class="active">
  <a href="#"><span class="glyphicon glyphicon-info-sign">
About</span></a>
</li>
</ul>
</div>
</div>
```

Bootstrap forms

Used to provide different styles form forms
Vertical form(Default style)
Inline form
Horizontal form

input-group

This class is used to group the control into a one unit

Bootstrap TextBox

```
h1>BootStrap, Textbox</h1>

<div class="row">
  <div class="col-xs-2">
    <div class="input-group">
      <span class="input-group-addon">${</span>
```

Introduction

	<pre><input type="number" class="form-control" placeholder="Price"> 0.00 </div> </div> </div></pre>
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

pull-left

pull-right

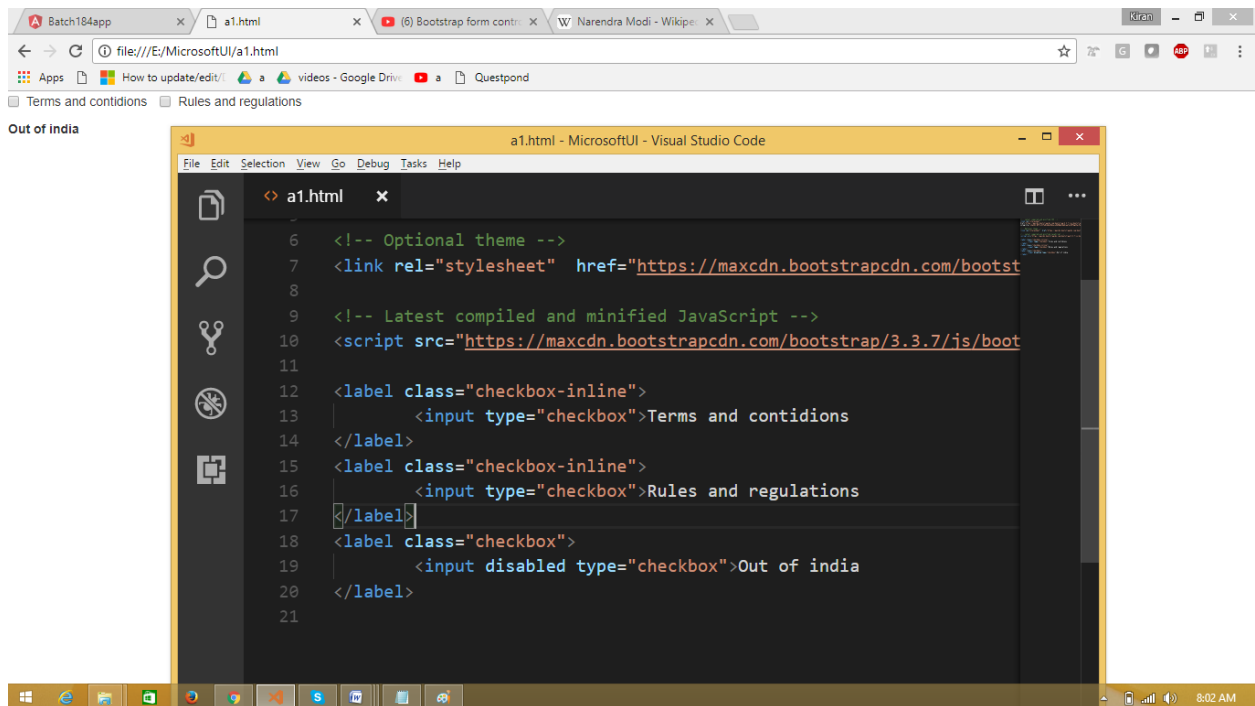
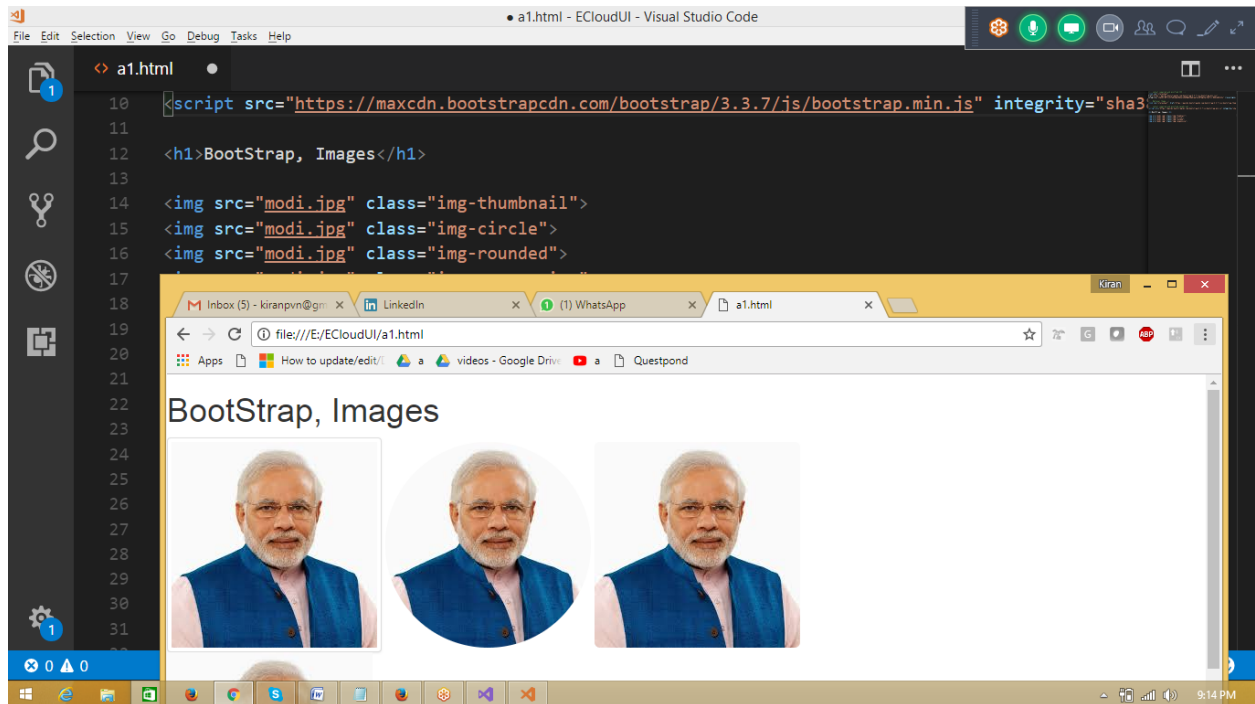
center-block

```
<label class="checkbox-inline">
```

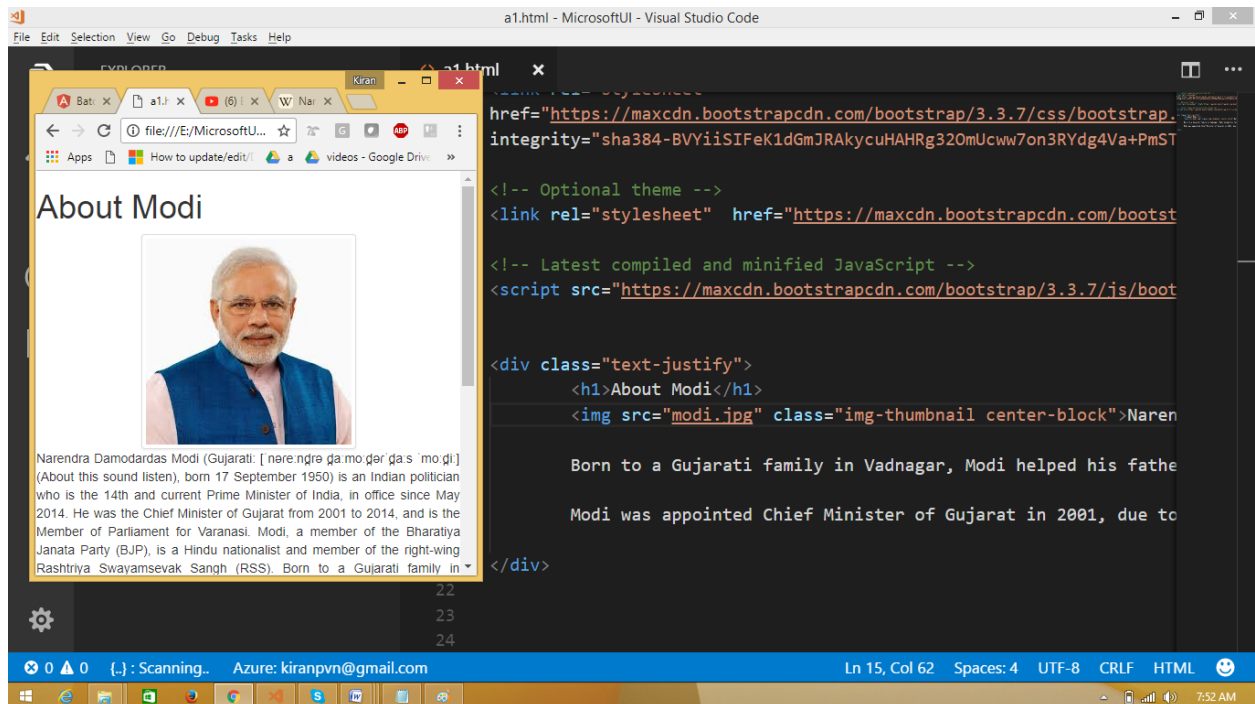
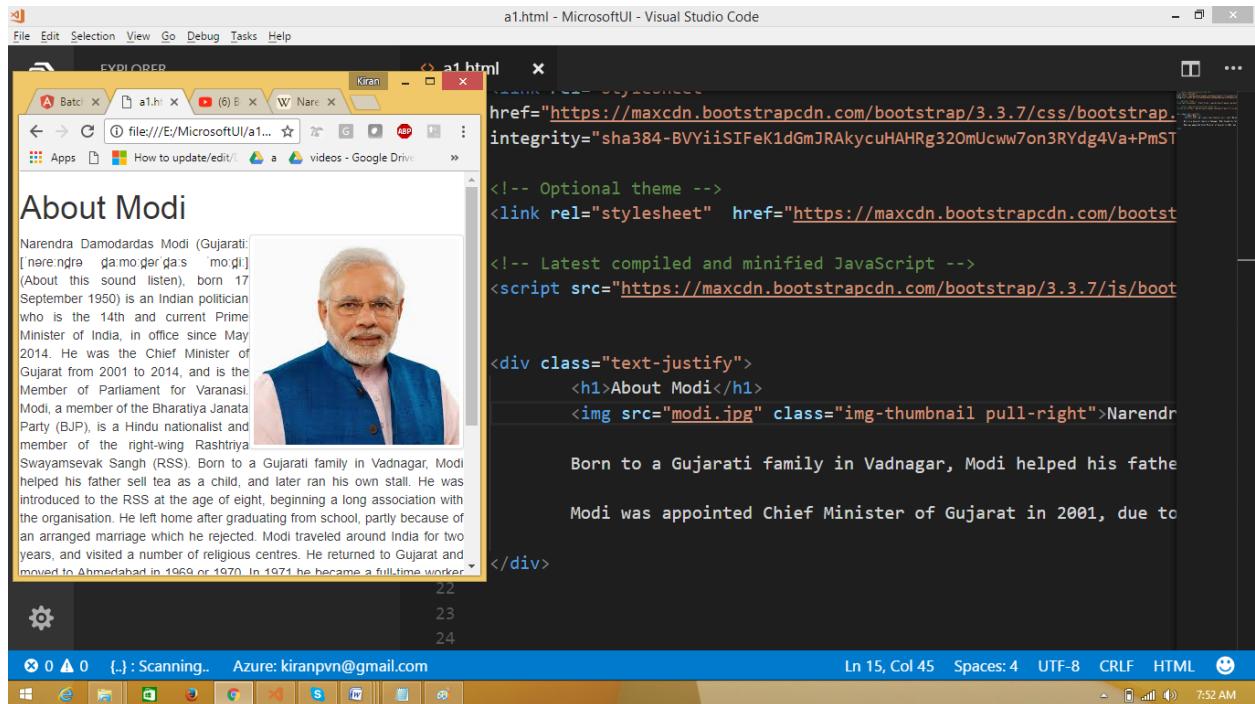
```
<input type="checkbox">Terms and contidions
```

```
</label>
```

Introduction



Introduction



Introduction

Bootstrap Image Class	Description
img-responsive	Makes an image responsive
img-circle	Styles the image as a circle
img-thumbnail	Styles the image as a thumbnail
img-rounded	Styles the image with rounded corners



Form control, elements

drop down list:

```
<select class="form-control">
```

```
<option>North</option>
```

```
<option>East</option>
```

```
<option>West</option>
```

```
<option>Sourth</option>
```

```
</select>
```

```
npm install bootstrap@3 jquery--save
```

Introduction

	navbar component
	Navbars are the responsive meta components which serve as a navigation headers for application or the website. The begin collapse (and are toggleable) in mobile views and become horizontal as a available viewport width increases
	Bootstrap navigation tabs
	<pre><h2>Navigation Tabs Demo</h2> <div class="container"> <form action=""> <h2>Navigation Demo</h2> <div class="row"> <ul class="nav nav-tabs"> <li class="active">Home Contact About </div> </form> </div></pre>

	Bootstrap Glyphicons
	These are built in class in bootstrap used to have glyphs used to add to button, navigation tabs, etc., <pre> Home</pre> url: https://getbootstrap.com/docs/3.3/components/

	Nav-tabs with Glyphicons
	<pre><h2>Nav tabs with Glyphicons Demo</h2> <h2>Navigation Tabs Demo</h2> <div class="container"> <form action=""> <div class="row"> <ul class="nav nav-tabs"> <li class="active"> Home <li class="active"> Contact <li class="active"> About </div> </form> </div></pre>

Introduction

	Nav-tabs, Example-2
	<pre><link rel="stylesheet"href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"> <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script> <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script> <div class="container"> <h2>Dynamic Tabs</h2> <ul class="nav nav-tabs"> <li class="active"><a data-toggle="tab" href="#home">Home <a data-toggle="tab"href="#menu1">Menu 1 <a data-toggle="tab"href="#menu2">Menu 2 <div class="tab-content"> <div id="home"class="tab-pane fade in active"> <h3>HOME</h3> <p>Home Related Division</p> </div> <div id="menu1"class="tab-pane fade"> <h3>Menu 1</h3> <p>Menu 1 related division</p> </div> <div id="menu2"class="tab-pane fade"> <h3>Menu 2</h3> <p>Menu 2 related division</p> </div> </div> </div></pre>

	Creating a Jumbotron
	<p>A jumbotron indicates a big box for calling extra attention to some special content or information in the webpage</p> <pre><div class="jumbotron"> </div></pre>

Introduction

	Example1
	<pre><h2>Jumbotron class</h2> <div class="container"> <div class="row"> <div class="col-md-6"> <div class="jumbotron"> <h2>About Bootstrap</h2> Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile-first projects on the web. </div> </div> </div> </div></pre>
	A jumbotron is displayed as a grey box with rounded corners. It also enlarges the font sizes of the text inside it.

	User login
	<pre><h2>User Login</h2> <div class="container"></pre>

Introduction

```
<div class="col-lg-4 jumbotron">
<div class="form-group">
<input type="email" class="form-control" placeholder="User Name">
</div>
<div class="form-group">
<input type="password" class="form-control" placeholder="Password">
</div>
<div class="checkbox">
<label for=""><input type="checkbox"> Remember Me</label>
</div>
<button type="submit" class="btn btn-primary">Login</button>
</div>
```

Form-inline

```
<h2>User Login</h2>
<div class="container">
<div class="form-inline">
<div class="form-group">
<input type="email" class="form-control" placeholder="User Name">
</div>
<div class="form-group">
<input type="password" class="form-control" placeholder="Password">
</div>
<div class="checkbox">
<label for=""><input type="checkbox"> Remember Me</label>
</div>
<button type="submit" class="btn btn-primary">Login</button>
</div>
</div>
```

Note: If screen size reduces form layout will be default as vertical