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BOOTSTRAP
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Bootstrap is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first websites.

Bootstrap is completely free to download and use!

Bootstrap CDN

If you don't want to download and host Bootstrap yourself, you can include it from a CDN (Content Delivery Network).

MaxCDN provides CDN support for Bootstrap's CSS and JavaScript. You must also include jQuery:

MaxCDN:

<!-- Latest compiled and minified CSS -->

link rel="stylesheet"

href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">

<!-- jQuery library -->

<script

src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<!-- Latest compiled JavaScript -->

<script

src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

1. GRID The Bootstrap grid system has four classes:

- xs (for phones screens less than 768px wide)
- sm (for tablets screens equal to or greater than 768px wide)
- md (for small laptops screens equal to or greater than 992px wide)
- lg (for laptops and desktops screens equal to or greater than 1200px wide)

2. TABLES A basic Bootstrap table has a light padding and only horizontal dividers.

* The .table class adds basic styling to a table:

Striped Rows

- * The .table-striped class adds zebra-stripes to a table:
- * The .table-bordered class adds borders on all sides of the table and cells:
- * The .table-hover class adds a hover effect (grey background color) on table rows:

The contextual classes that can be used are:

Class Description

- .active Applies the hover color to the table row or table cell
- .success Indicates a successful or positive action
- .info Indicates a neutral informative change or action
- .warning Indicates a warning that might need attention
- .danger Indicates a dangerous or potentially negative action

3. IMAGES * Rounded Corners:

The .img-rounded class adds rounded corners to an image (IE8 does not support rounded corners):

* Circle

The .img-circle class shapes the image to a circle (IE8 does not support rounded corners):

* Thumbnail

The .img-thumbnail class shapes the image to a thumbnail:

* Responsive Images

Images come in all sizes. So do screens. Responsive images automatically adjust to fit the size of the screen. Create responsive images by adding an .img-responsive class to the tag. The image will then scale nicely to the parent element.

The .img-responsive class applies display: block; and max-width: 100%; and height: auto; to the image:

4. JUMBOTRONE Creating a Jumbotron

A jumbotron indicates a big box for calling extra attention to some special content or information.

A jumbotron is displayed as a grey box with rounded corners. It also enlarges the font sizes of the text inside it.

Tip: Inside a jumbotron you can put nearly any valid HTML, including other Bootstrap elements/classes.

Use a $\langle \text{div} \rangle$ element with class .jumbotron to create a jumbotron:

5. WELL

The .well class adds a rounded border around an element with a gray background color and some padding:

```
6. PROGRASE Example: \( \div \class="\text{progress}" \) \( \div \class="\text{progress-bar}" \text{ role="\text{progressbar}" aria-valuenow="70"} \) \( \aria-valuemin="0" \aria-valuemax="100" \style="\text{width:}70\text{"} \) \( \left\) \( \square \text{span} \) \( \left\) \( \div \right\) \( \left\) \( \div \right\) \( \left\) \( \div \right\) \( \div \rig
```

7. PAGINATION

8. PAGER Pager is also a form of pagination (as described in the previous chapter).

Pager provides previous and next buttons (links).

To create previous/next buttons, add the .pager class to an

9. DROPDOWN A dropdown menu is a toggleable menu that allows the user to choose one value from a predefined list:

Example

```
<div class="dropdown">
  <button class="btn btn-primary dropdown-toggle" type="button"</pre>
data-toggle="dropdown">Dropdown Example
  <span class="caret"></span></button>
  <1i><a href="#">HTML</a></1i>
    <1i><a href="#">CSS</a></1i>
    <a href="#">JavaScript</a>
  </div>
10.\,COLLAPSE Collapsibles are useful when you want to hide and show large amount
of content:
Example:
<button data-toggle="collapse" data-target="#demo">Collapsible</button>
<div id="demo" class="collapse">
Lorem ipsum dolor text....
</div>
11. Tabs
             tabs are created with :
Tip: Also mark the current page with .
The following example creates navigation tabs:
Example
<a href="#">Home</a>
  <1i><a href="#">Menu 1</a></1i>
  <1i><a href="#">Menu 2</a></1i>
  <1i><a href="#">Menu 3</a></1i>
12. NAVBAR
With Bootstrap, a navigation bar can extend or collapse, depending on the screen size.
A standard navigation bar is created with <nav class="navbar navbar-default">.
The following example shows how to add a navigation bar to the top of the page:
Example [ ]
<nav class="navbar navbar-default">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand" href="#">WebSiteName</a>
    </div>
```

Home

```
</div>
</nav>
```

13. FORMS

```
Bootstrap provides three types of form layouts:

Vertical form (this is default)

Horizontal form

Inline form

Standard rules for all three form layouts:

Wrap labels and form controls in <div class="form-group"> (needed for optimum spacing)

Add class .form-control to all textual <input>, <textarea>, and <select> elements
```

$14.\ INPUTS$ Bootstrap supports the following form controls:

input
 textarea
 checkbox
 radio
 select

15. MEDIA OBJECTS Bootstrap provides an easy way to align media objects (like images or videos) to the left or to the right of some content. This can be used to display blog comments, tweets and so on:

```
Example
<!-- Left-aligned -->
<div class="media">
  <div class="media-left">
    <img src="img_avatar1.png" class="media-object" style="width:60px">
  </div>
  <div class="media-body">
    <h4 class="media-heading">John Doe</h4>
    \text{p}\text{Lorem ipsum...} \text{/p}
  </div>
</div>
<!-- Right-aligned -->
<div class="media">
  <div class="media-body">
    <h4 class="media-heading">John Doe</h4>
    Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor
incididunt ut labore et dolore magna aliqua. 
  </div>
  <div class="media-right">
    <img src="img_avatar1.png" class="media-object" style="width:60px">
  </div>
</div>
```

Example explained

Use a <div> element with the .media class to create a container for media objects.

Use the .media-left class to align the media object (image) to the left, or the .media-right class to align it to the right.

Text that should appear next to the image, is placed inside a container with class="media-body".

Additionally, you can use .media-heading for headings.

16. CAROUSEL The Carousel plugin is a component for cycling through elements, like a carousel (slideshow).

Tip: Plugins can be included individually (using Bootstrap's individual "carousel. js" file), or all at once (using "bootstrap. js" or "bootstrap. min. js").

- 17. MODEL The Modal plugin is a dialog box/popup window that is displayed on top of the current page:
- **18. TOOLTIP** The Tooltip plugin is small pop-up box that appears when the user moves the mouse pointer over an element:
- 19. POPOVER The Popover plugin is similar to tooltips; it is a pop-up box that appears when the user clicks on an element. The difference is that the popover can contain much more content.
- **20.** SCROLLSPY The Scrollspy plugin is used to automatically update links in a navigation list based on scroll position.
- **21. AFFIX** The Affix plugin allows an element to become affixed (locked) to an area on the page. This is often used with navigation menus or social icon buttons, to make them "stick" at a specific area while scrolling up and down the page.

The plugin toggles this behavior on and off (changes the value of CSS position from static to fixed), depending on scroll position.

 $22.\,FILTER$ Bootstrap does not have a component that allows filtering. However, we can use jQuery to filter / search for elements.

```
$\left(\document\).ready(function() {
    $\(("\mu\)Input"\).on("keyup", function() {
       var value = $\((\mu\)Input"\).filter(function() {
         $\(("\mu\)Table tr"\).filter(function() {
         $\((\mu\)Input"\)Input"\).toLowerCase().indexOf(value) > -1)
       }\);
    });
});
});
```

```
Grid Options
The following table summarizes how the Bootstrap grid system works across multiple devices:
     Extra small
<768px
          Sma11
>=768px
          Medium
>=992px
         Large
>=1200px
Class prefix
               .col-xs- .col-sm- .col-md- .col-lg-
Suitable for
              Phones
                         Tablets
                                   Small Laptops Laptops & Desktops
Grid behaviour Horizontal at all times Collapsed to start, horizontal above breakpoints
    Collapsed to start, horizontal above breakpoints Collapsed to start, horizontal
above breakpoints
Container width
                    None (auto)
                                   750px
                                             970px
                                                       1170px
# of columns
                    12
                         12
                              12
                              ~81px
               Auto ~62px
Column width
                                        ~97px
               30px (15px on each side of a column)
                                                       30px (15px on each side of a
Gutter width
column)
          30px (15px on each side of a column)
                                                  30px (15px on each side of a column)
Nestable Yes Yes Yes Yes
Offsets
         Yes Yes Yes
                        Yes
Column ordering
                    Yes Yes Yes Yes
```