

Bootstrap Notes

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1. Page Layout:

1.1. Container Class:

- ❖ Automatic make responsive website.
- ❖ Changing width of container according to screen like 1140px, 970px, 720px, 540px and less than 540px.
- ❖ The main structure of layout.
- ❖ Containing Different classes like Row and columns etc.

1.2. Container-fluid Class:

- ❖ Same as container class but width is 100% of screen.
- ❖ Responsive

1.3. Row Class:

- ❖ Automatic make row in container.
- ❖ Make responsive row.

1.3.1. Row row-cols-3:

- ❖ This class will make 3 columns in a row for every size of screen.

1.4. Col Class:

- ❖ Col class must be written inside the row Class.
- ❖ Col Class will divide the width of whole row into number of columns.

1.4.1: Col Class Screen Types:

- ❖ 1. Extra Large Written as col-xl class will make all columns in a row at large screen below the large every column will take width 100% or according to row-cols-n.
- ❖ 2. Large Written as col-lg.
- ❖ 3. Medium written as col-md.
- ❖ 4. Small written as col-sm.
- ❖ Last three functionality same as 1st.

1.4.2: Grid Col Class:

- ❖ Consist of 12 grids.
- ❖ Declare width to every column as col-3.
- ❖ Sum of width of all columns in row must be equal to 12.

1.4.3:Responsive Grid Col Class:

- ❖ Col Class Screen Types but here we write syntax(col-md-n).
- ❖ This shows that the row from xl to md will be consist of n columns.
- ❖ Below the md screen the width of each column will be 100%.
- ❖ We can also declare different width for different type of screens.
- ❖ Syntax will be “col-sm-n col-md-n”.
- ❖ Write in bottom to top sequence.

1.5.Offset Class:

- ❖ Offset Class is used to create gap between, before or after of a column.
- ❖ Syntax = “offset-n”
- ❖ Offset is also a responsive built-in Bootstrap Class.
- ❖ Syntax = “offset-screensize-n”
- ❖ Screen Size -> Xl, lg, md & sm.

1.6.Order Class:

- ❖ Order Class is used to reordering the columns.
- ❖ We can reorder the columns at the first or last.

1.6.1.Reordring First and Last:

- ❖ Syntax = “order-first” & “order-last”
- ❖ For Responsive order class we will use the syntax below:
- ❖ Syntax = “order-xl-first” & “order-xl-last”.
- ❖ Syntax = “order-lg-first” & “order-lg-last”.
- ❖ Syntax = “order-md-first” & “order-md-last”.
- ❖ Syntax = “order-sm-first” & “order-sm-last”.

1.6.2.Reordering with Grid Numbers:

- ❖ Syntax = “order-n”
- ❖ Enter grid number where you want to place the column.
- ❖ We can also make responsive using same commands of first and last ordering.
- ❖ Syntax as Example: “order-xl-3”.

1.7.Nesting(More Columns inside a column):

- ❖ Making More Columns inside a column.
- ❖ For nesting we have to use a row inside a column then again columns inside the row.
- ❖ This procedure will be started again same as 1st row.
- ❖ The row will be consist of again 12 grids.
- ❖ We can apply all column functions on columns inside a column.

1.8.Margin Classes:

- ❖ Bootstrap has further inbuilt classes that's are used to set the margin perfectly.
- ❖ For setting a column at mid of the row “m-auto”.
- ❖ For setting a column at right of the row “ms-auto”.
- ❖ For setting a column at left of the row “me-auto”.
- ❖ For responsive margin we can use xl, lg, md and sm as m-md-auto.

- ❖ We can also add manual margin using these classes from all or any single side.
- ❖ For all sides “m-n”, For top side “mt-n”, For bottom side “mb-n”, For left side “ms-n”, For right side “me-n”(where n can be any number).
- ❖ Margin size range : (0-5)/only.(where 0:0px, 1:0.25rem, 2:0.50, 3:1rem, 4:1.5rem, 5:3rem).
- ❖ We can also make manually margin responsive.
- ❖ There are also negative margins in bootstrap. For negative margin we have to write only n before the number. E.g. mt-n7
- ❖ We can add negative margin in any margin class with same previous syntax.
- ❖ Negative Margin overlaps the boxes in any class.
- ❖ 2nd Part:
- ❖ “my-n” : used to declare equal margin from top and bottom.
- ❖ “mx-n” : used to declare equal margin from left and right.
- ❖ Bootstrap has built-in padding and margin on rows and columns.
- ❖ “no-gutters” : used to remove built-in padding and margin.
- ❖ Responsive features can also be used in 2nd part.

1.9.Padding Classes:

- ❖ We can also add manual padding using these classes from all or any single side.
- ❖ For all sides “p-n”, For top side “pt-n”, For bottom side “pb-n”, For left side “ps-n”, For right side “pe-n”(where n can be any number).
- ❖ Margin size range : (0-5)/only.(where 0:0px, 1:0.25rem, 2:0.50, 3:1rem, 4:1.5rem, 5:3rem).
- ❖ We can also make manually margin responsive using xl, lg, md, sm.
- ❖ 2nd Part:
- ❖ “py-n” : used to declare equal padding from top and bottom.
- ❖ “px-n” : used to declare equal padding from left and right.
- ❖ Bootstrap has built-in padding and margin on rows and columns.
- ❖ “no-gutters” : used to remove built-in padding and margin.
- ❖ Responsive features can also be used in 2nd part.

1.10.Horizontal Alignment:

- ❖ Used in row class for horizontal alignment of all columns.
- ❖ Consist of 5 different classes
- ❖ 1. “justify-content-start” adjust all columns at right side.
- ❖ 2. “justify-content-center” adjust all columns at center.
- ❖ 3. “justify-content-end” adjust all columns at end side.
- ❖ 4. “justify-content-between” Divide space between all columns.
- ❖ 5. “justify-content-around” Divide space around all columns.
- ❖ We can also add all breakpoints for responsive web(xl, lg, md, sm).
- ❖ Syntax : “justify-content-xl-center”.

1.11.Vertical Alignment:

1.11.1.Align Items:

- ❖ Used in row class for vertical alignment of all columns.
- ❖ Consist of 5 different classes

- ❖ 1. “align-items-start” Every column will take space according to paragraph and will be started from top(start) side.
- ❖ 2. “align-items -center” Every column will take space according to paragraph and will be started from center side.
- ❖ 3. “align-items -end” Every column will take space according to paragraph and will be started from bottom(end) side.
- ❖ 4. “align-items -stretch” Every column will take same width in a row.
- ❖ 5. “align-items -baseline” setting baseline of columns of different font size.
- ❖ We can also add all breakpoints for responsive web(xl, lg, md, sm).
- ❖ Syntax : “align-items-xl-center”.

1.11.2.Align Content:

- ❖ In a row, if we change the height of a row then columns in a row automatically stretched.
- ❖ If we don't want to stretch the columns we will use align-content class.
- ❖ Consist of 5 different classes
- ❖ 1. “align -content-start” adjust all columns at top of the row.
- ❖ 2. “align -content-center” adjust all columns at center of the row.
- ❖ 3. “align -content-end” adjust all columns at bottom of the row.
- ❖ 4. “align -content-between” Divide space between all rows of columns.
- ❖ 5. “align -content-around” Divide space around all rows of columns.
- ❖ We can also add all breakpoints for responsive web(xl, lg, md, sm).
- ❖ Syntax : “align-content-xl-center”.

1.11.3.Align Self:

- ❖ In a row, if we change the height of a row then columns in a row automatically stretched.
- ❖ If we don't want to stretch the single column of a row we will use align-self class.
- ❖ Consist of 6 different classes
- ❖ 1. “align-self-start” adjust the column at top of the row.
- ❖ 2. “align-self-center” adjust the column at center of the row.
- ❖ 3. “align-self-end” adjust the column at bottom of the row.
- ❖ 4. “align-self-stretch” adjust the column height same as the row.
- ❖ 5. “align-self-baseline” adjust the column according to font size of the row.
- ❖ 6. “align-self-auto” adjust the column same as other columns of the row.
- ❖ We can also add all breakpoints for responsive web(xl, lg, md, sm).
- ❖ Syntax : “align-self-xl-center”.

1.12.Flex Direction:

- ❖ For maintaining same direction as is(default): “flex-row”.
- ❖ For reversing all columns of a row there is a class name: “flex-row-reverse”.
- ❖ For converting all rows to column or converting horizontal to vertical: “flex-column”.
- ❖ For reversing all items of column: “flex-column-reverse”.
- ❖ For adding columns in a new row who exceeds from screen length (default): “flex-wrap”.
- ❖ For reversing upper class: “flex-wrap-reverse”.
- ❖ For adjusting columns in a same row but of row boundary who exceeds from screen length (viewed by scrolling): “flex-nowrap”.

- ❖ “flex-fill” applied on a column and this will change the width of column to available screen ‘if we set the column width’. (This class will not work as a responsive).
- ❖ “flex-fill” applied on a column and this will change the width of column to full screen ‘if we don’t set the column width’. (This class will not work as a responsive).
- ❖ We can also apply all responsive classes on flex-direction classes except flex-fill.
- ❖ e.g. “flex-lg-column-reverse”.

1.13.Display Classes:

- ❖ CSS property -> “Bootstrap Class”.
- ❖ display : none -> “d-none” (Will hide the block from screen).
- ❖ display : inline -> “d-inline”.
- ❖ display : inline-block -> “d-inline-block” (Adjust divs or columns in a single row width will be according to text. When screen width become small automatically display : block).
- ❖ display : block -> “d-block” (Adjust 1 div or column in 1 row) .
- ❖ display : table -> “d-table”.
- ❖ display : table-cell -> “d-table-cell”.
- ❖ display : table-row -> “d-table-row”.
- ❖ display : flex -> “d-flex” (Will make the div same as flex functionality without use of row class).
- ❖ display : inline-flex -> “d-inline-flex”.
- ❖ These all classes can be made easily responsive. e.g. “d-md-inline-flex”.
- ❖ For print : d-print-none (will hide the block when printing). Any property can be applied at the place of none.

1.14.Float and Clearfix Classes:

- ❖ We can use other properties to set left or right position but we use float specially for creating a responsive website.
- ❖ Float has 3 types of classes : left, right and none.
- ❖ “float-left” : used to set div at left side of corner.
- ❖ “float-right” : used to set div at right side of corner.
- ❖ “float-left” : adding not any type of side (default).
- ❖ “clearfix” : if we apply a float class on a div then its parent class like row or container create a problem of border. To fix that problem we use clearfix class on its parent div.
- ❖ “w-25”, “w-50”, “w-75”, “w-100”, “w-auto” : are used to set width of a div or row.
- ❖ “h-25”, “h-50”, “h-75”, “h-100”, “h-auto” : are used to set height of a div or row.
- ❖ “mh-100” & “mw-100” : for maximum width and height.
- ❖ “vh-100” & “vw-100” : viewport width and height means taking full screen width and height.
- ❖ “min-vh-100”, “min-vw-100” : for increasing height and width according to content.

1.15.Position and Overflow Classes:

- ❖ “Position-relative”.
- ❖ “Position-absolute”.
- ❖ “Position-fixed”.
- ❖ “Position-static”.
- ❖ “Position-sticky”.
- ❖ These classes are rarely used because we must have to write top : 30px or any other alignments for this we have not any built-in class of bootstrap.
- ❖ The most frequent classes used are :

- ❖ “fixed-top” : fix the div at top with 0px gap.
- ❖ “fixed-bottom” : fix the div at bottom with 0px gap.
- ❖ “stick-top” : stick the div at top with 0px gap.
- ❖ So we will use these three classes in practice.
- ❖ *Overflow*
- ❖ When we fix height of a div to 200 px or any other height and text will be more then 200px then text will overflow the div. To fix this problem we use:
- ❖ “overflow-auto” : Div size will be 200 and the text will be showed when scroll.
- ❖ “overflow-hidden” : The overflow text will be hidden.

1.16.Color and Background Color Classes:

1.16.1:Background Colors:

- ❖ 10 different types of classes of colours in CSS.
- ❖ “bg-primary” : blue.
- ❖ “bg-secondary” : grey.
- ❖ “bg-success” : green.
- ❖ “bg-danger” : same as red.
- ❖ “bg-warning” : yellow.
- ❖ “bg-info” : teal.
- ❖ “bg-light” : light grey.
- ❖ “bg-dark” : dark grey.
- ❖ “bg-white” : white.
- ❖ “bg-transparent” : transparent.
- ❖ Transparent same as parent color frequently used for headings background.

1.16.2:Text Colors:

- ❖ 13 different types of classes of colours in CSS.
- ❖ “text-primary” : blue.
- ❖ “text -secondary” : grey.
- ❖ “text -success” : green.
- ❖ “text -danger” : same as red.
- ❖ “text -warning” : yellow.
- ❖ “text -info” : teal.
- ❖ “text -light” : light grey.
- ❖ “text -dark” : dark grey.
- ❖ “text -white” : white.
- ❖ “text -body” : more dark grey.
- ❖ “text -muted” : more light grey.
- ❖ “text –black-50” : 50 black + 50 transparent.
- ❖ “text –white-50” : 50 white + 50 transparent.

1.17.Text Formatting Classes:

1.17.1:Text Format:

- ❖ “text-start” justify text on left side.
- ❖ “text-end” justify text on right side.
- ❖ “text-center” justify text on center.

- ❖ “text-justify” justify text in equal lines.
- ❖ “text-decoration-none” : for removing decoration from text.
- ❖ “text-reset” : used to set color of anchor tag same as parent div color.
- ❖ “text-wrap” : used to add multiple lines for long text.
- ❖ “text-wrap” : used to add single lines for long text.
- ❖ “text-truncate” : used to add 3 dots at the end of no-wrap line after div width end.
- ❖ “text-break” : when text is long without spaces then its overflow the box. For removing overflow this class is used.
- ❖ We can use different break points for a responsive website.

1.17.2:Text Transform:

- ❖ “text-lowercase” : change the alphabets to lowercase. CSS Property : text-transform : lowercase.
- ❖ “text-uppercase” : change the alphabets to uppercase.
- ❖ “text-capitalize” : change the alphabets to capitalize.
- ❖ “text-name of font” : “text-monospace”.

1.17.3:Font Weight:

- ❖ “fw-bold” : for bold the words or statements.
- ❖ “fw-bolder” : for more bold the words or statements.
- ❖ “fw-normal” : for normal the words or statements.
- ❖ “fw-light” : for 300px bold the words or statements.
- ❖ “fw-lighter” : for bold the words or statements more than 300px.
- ❖ “fw-normal” : for not bold the words or statements.
- ❖ “fst-italic” : for italic the words or statements.

1.17.4.Font Sizes:

- ❖ “display-1”, “display-2”, “display-3”, “display-4”.
- ❖ These 4 classes are for headings respectively large to small.
- ❖ “lead” : large text from normal paragraph text.
- ❖ “list-unstyled” : Remove bullets points from list items.
- ❖ “list-inline”, “list-inline-item” : Used in main tag of list(ul) and in list items(li) respectively to show all items of list in 1 line.

1.18.Blockquote tag and class:

- ❖ Blockquote tag is used to write a quote or customer review.
- ❖ A footer is used in block quote tag to write author name.
- ❖ “blockquote” : is used to set a quote.
- ❖ “blockquote-footer” : is used to set footer of a quote.
- ❖ you can also style as per your need.

1.19.User select classes:

- ❖ “user-select-all” : user can select whole text by 1 click.
- ❖ “user-select-auto” : can be selected by dragging(Default class).
- ❖ “user-select-none” : user cannot select text.

1.20.Button classes:

- ❖ “btn” : used in button tag to automatic design of button. E.g. padding, border etc.

- ❖ Different color classes for button :
- ❖ “btn-primary” : blue.
- ❖ “btn-secondary” : grey.
- ❖ “btn-success” : green.
- ❖ “btn-danger” : same as red.
- ❖ “btn-warning” : yellow.
- ❖ “btn-info” : teal.
- ❖ “btn-light” : light grey.
- ❖ “btn-dark” : dark grey.
- ❖ “btn-link” : blue(simple link).
- ❖ These classes can be used on other tags like anchor, input.
- ❖ role = “button” : make cursor.
- ❖ Type = “submit” : button type.
- ❖ Type = “reset” : button type.
- ❖ Outline color classes :
- ❖ We have to add outline after btn. E.g. “btn-outline-dark”
- ❖ Button sizes : normal : simple btn, large : btn-lg, small : btn-sm.
- ❖ “btn-block” : used for making button width according to div or box width.
- ❖ “active” : look after hover.
- ❖ “disabled” : Can’t be clicked on this button(non click able).

1.21.Group Button classes:

- ❖ “btn-group” : make a div with this class.
- ❖ Add multiple buttons with class btn. All buttons will be combined automatically with different colors and styles.
- ❖ “btn-group-lg”, “btn-group-sm” : used for large and small button groups.

1.22.Toolbar Button classes:

- ❖ “btn-toolbar” : make a div with this class. Toolbar is combination of various group buttons.
- ❖ Add multiple group buttons with class btn-group. All group buttons will be combined automatically with different colors and styles.
- ❖ “btn-toolbar-lg”, “btn-toolbar-sm” : used for large and small button groups.
- ❖ We can also make toolbar of vertical buttons :
- ❖ “btn-group-vertical” will be used instead of “btn-group”.
- ❖ We can use font icons from a website : “fontawesome”.
- ❖ Data-toggle = “dropdown” : used in button class for menu.
- ❖ For menu a div with class : “dropdown-menu” inside anchor tags : “dropdown-item”.
- ❖ But to use properly dropdown menu we have to link some external files.

1.23.List Group classes:

- ❖ Used to create border outside of list items.
- ❖ “list-group” for ul tag and “list-group-item” for list item.
- ❖ “list-group-flush” : can be added extra on ul tag to remove outer border.
- ❖ “list-group-item-info” : different color classes can be added using this syntax.
- ❖ “list-group-item-horizontal” : horizontal alignment of all list items.

- ❖ “list-group-item-horizontal-lg” : multiple breakpoints can be added for a responsive website.
- ❖ “list-group” : can be added on a simple div to use anchor tag.
- ❖ “list-group-item-action” : applied on anchor tag.

1.24. Table classes:

- ❖ “table” : in table tag used to create lines under all rows.
- ❖ “table-bordered” : used to create borders around all rows.
- ❖ “table-dark” : used to create dark table.
- ❖ “table-borderless” : used to remove all borders from table.
- ❖ “table-striped” : used for different color of 2 rows.
- ❖ “thead-dark”, “thead-light” : used to create dark and light table head.
- ❖ “table-info” and other color classes are used in tr for row dark color.
- ❖ “bg-info” and other classes are used in tr for row light color.
- ❖ “table-responsive” : a scroll bar will be created in small devices and text will not overflow. This class is also used in different breakpoints e.g. “table-responsive-md”.
- ❖ “border-primary” and other color classes used in table for border color.

1.25. Pagination classes:

- ❖ For proper pagination we have to use other languages but in bootstrap and css we can only style.
- ❖ “pagination” : used in nav or div class for page numbering like previous and next.
- ❖ “page-item” : a class used in ul inside div.
- ❖ “page-link” : a class used in anchor tag inside li.
- ❖ “active” and “disabled” classes also used in li in pagination to show active and disabled pages.
- ❖ “pagination-lg” and “pagination-sm” : classes are used for pagination size.

1.26. Breadcrumb classes:

- ❖ Used to show hierarchy of recent or previous pages at top of page.
- ❖ “breadcrumb” : used in nav or div class for previous page names.
- ❖ “breadcrumb-item” : a class used in ol inside div.
- ❖ “active” and “disabled” classes also used in li in pagination to show active and disabled pages.
- ❖ There is no need to apply an anchor tag on active li.

1.27. Form classes:

1.27.1: Normal Form Classes:

- ❖ “form-group” : is used in parent tag.
- ❖ “form-control” : is used in every input tag.
- ❖ “form-text” and “text-muted” classes used in small or span tag for a description of a input.
- ❖ For read only box give value to input, add readonly and class : “form-control-plaintext”.
- ❖ “form-control-lg”, “form-control-sm” : are used to set size of text box.

- ❖ “form-control-file” : used in uploading a file.
- ❖ “form-control-range” : used for selecting a range.

1.27.2.Custom Form classes:

- ❖ Normal form look different in different operating systems e.g. linux, window but custom form look same in every operating system.
- ❖ “custom-select” : for select box. Sizes : “custom-select-lg”, “custom-select-sm”.
- ❖ For multiple selections we have to add multiple attribute in select tag. And for selecting we have to press ctrl button and then select.
- ❖ “custom-file” : for parent div, “custom-file-input” : for form input and “custom-file-label” : for label of file.
- ❖ “custom-range” : for range.
- ❖ “custom-control” and “custom-checkbox” for checkbox, “custom-radio” for radio & “custom-switch” for switch input/only for parent div, “custom-control-input” : for checkbox or radio input and “custom-control-label” for label.
- ❖ “custom-control-inline” for all checkboxes in 1 line.
- ❖ “is-valid” & “is-invalid” for valid and invalid box design.
- ❖ “valid-feedback” & “invalid-feedback” classes apply on a different div.
- ❖ “valid-tooltip” & “invalid-tooltip” for more highlighted box.

1.27.3.Input Group classes:

- ❖ Used to show text at left or right side of a text box.
- ❖ “input-group” : “input-group-prepend” for left side text & “input-group-append” on div for right side text.
- ❖ “input-group-text” : on span for text and input tag outside child div.
- ❖ We can also add multiple(up to 3) input tags in 1. For this we have to write input tag instead of text inside span.
- ❖ We can also add button instead of input tag.

1.28.Nav classes:

- ❖ “nav” : apply class on ul, “nav-item” on li and “nav-link” for anchor tag.
- ❖ “active” and “disabled” classes can also be used.
- ❖ “nav” can also be applied on nav tag and “nav-link” on anchor tag inside nav tag.
- ❖ “flex-column” : for vertical menu.
- ❖ “nav-pills” : for active class automatic color.
- ❖ “nav-fill” : for menu on complete line.
- ❖ “nav-justified” : fill the line with equal width of every button.

1.29.Navbar classes:

- ❖ “navbar” : for nav or div class, “navbar-light” and “bg-light” for colors.
- ❖ “navbar-brand” : for company logo or name.
- ❖ “navbar-nav” : applied on ol for nav menu.
- ❖ “nav-item” and “nav-link” for li and anchors.
- ❖ “navbar-expand” for horizontal alignment of menu with navbar class. Breakpoints also can be used as “navbar-expand-md”.
- ❖ “me-auto” : on ul for placing content right side.

1.30.Border and shadow classes:

- ❖ “border” : will make a border of grey color on whole box.
- ❖ “border-top”, “border-bottom”, “border-end”, “border-start” for sides borders.
- ❖ “border-0”, “border-top-0”, “border-bottom-0”, “border-end-0”, “border-start-0” for removing borders.
- ❖ “border-info” and other Border color Classes.
- ❖ “shadow-none”, “shadow-sm”, “shadow”, “shadow-lg” for shadow of box.

1.31.Image and Video classes:

- ❖ “img-fluid” : is used to make picture responsive.
- ❖ “rounded” : used to round the picture from corners.
- ❖ “img-thumbnail” : used to create border and a gap of 2 pixels between border and image. Classification : “rounded-lg”, “rounded-sm”, “rounded-circle”, “rounded-top”, “rounded-bottom”, “rounded-start”, “rounded-end”, “rounded-pill” : looking same as capsule.
- ❖ “figure” tag and class : used for text under the picture.
- ❖ “figure” class with figure tag, “figure-img” on img tag inside figure and “figcaption” tag with class “figure-caption” for text.
- ❖ “iframe”, “embed”, “video”, “object” : iframe and video tag are mostly used.
- ❖ “embed-responsive” and “embed-responsive-item” on div and iframe tag respectively for iframe tag.
- ❖ “embed-responsive-21by9”, “embed-responsive-16by9” : show video in rectangular shape. “embed-responsive-4by3”, “embed-responsive-1by1” : show video in square shape.

1.32.Card classes:

- ❖ Card is for making a card consist of a image and text with a header and paragraph. Can also be made without image.
- ❖ “card” : on parent div, “card-img” : create a rounded shape. “card-img-top” : for image, on top applied at top of body, “card-img-bottom” : applied at bottom, for image on bottom.
- ❖ “card-body” : on a div for content of image, “card-title” for title inside div and “card-subtitle” : for subtitle, “card-text” : for text under title.
- ❖ We can also do more with content part such as setting header, footer, bg color etc.
- ❖ “card-img-overlay” : for text on image. Image tag must be top from card body.
- ❖ “card-link” : applied on anchor tag for a link.
- ❖ “card-header” and “card-footer” for header(a navigation can also be added) and footer placed out of body.
- ❖ Horizontal card can also be made by using your own minded can be checked in vs code program of card.
- ❖ “card-group” : add on a parent div on card divs for a group of cards.
- ❖ “card-deck” : use for equal space between all cards instead of “card-group”(not working).
- ❖ “card-columns” : used for masonry layout. All cards adjusted automatically(not working).

1.32.Media Object classes(not Working):

- ❖ These classes are used to show user comments like segments.
- ❖ A image is added inside parent div at 1st number.
- ❖ “media” and “media-body” : applied on parent div and on a child div consist of header and paragraph respectively.

1.33.Badge classes:

- ❖ This class is used to highlight a special thing in a button, paragraph or anywhere.
- ❖ “badge” and “bg-light” : for creating a badge and badge color. badge-info(not Working).

1.34.Progress Bar classes:

- ❖ This class is used to show progress of any work.
- ❖ “progress” : apply on a parent div, “progress-bar” for a progress bar.
- ❖ Width and height can also be changed.
- ❖ Bootstrap color classes can be used for different colors of progress bar.
- ❖ For left or right side description or title of bar a div or span can be added inside progress class at upper or lower then progress-bar class.
- ❖ Multiple progress bars can be added inside a progress.
- ❖ “progress-bar-striped” : for wonderful design of progress bar.
- ❖ “progress-bar-animated” : for animation of designed progress bar.

1.35.Spinners classes:

- ❖ Spinners classes are used to show loading a file or waiting time.
- ❖ “spinner-border” : applied on div to create an automated spinner.
- ❖ “sr-only” : on span tag inside div with needed text. Used for telling google what inside this for better SEO.
- ❖ To change color of spinner apply text color : “text-info”.
- ❖ “spinner-grow”, “spinner
- ❖ “spinner-border-sm”, “spinner-grow-sm” for small text size. There is no large text size class available.

1.35.Jumbotron classes:

- ❖ “jumbotron” : is frequently used to Highlight important data with grey dark background.
- ❖ “jumbotron-fluid” : is used for full width.