



(A Constituent College of Somaiya Vidyavihar University)

Batch: A3 Roll No.:16010123064

Experiment No. 03

TITLE: Demonstrate the use of Bootstrap

AIM: To use bootstrap (open source front-end development framework) for the creation of web pages.

Expected Outcome of Experiment: Re_design of web pages using various HTML, CSS tags with bootstrap.

Books/ Journals/ Websites referred:

http://getbootstrap.com/getting-started

Problem Statement:

- 1. Students have to re-design web-pages developed in Experiment 1 and 2 by using bootstrap.
- 2. Create a webpage using bootstrap with following features,
- i) use a container to set the content's margins dealing with the responsive behaviors of layout.
- ii) shape the image into a circle
 - iii) use bootstrap grid system
 - iv) create basic pagination
 - v) insert search icon(glyphicon)

Description of the application implemented with output:

1.

Html File:





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Css File:

```
/* Base Font and Layout */
body {
        font-family: 'Ubuntu', 'Roboto Condensed', 'Inconsolata',
sans-serif;
    margin: 0;
    padding: 0;
    background-color: #f8f9fa;
}
#logo {
    font-size: 1.8rem;
    font-weight: 700;
    padding: 0.5rem 0;
    text-align: center;
}
```





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```
#sidebar {
   position: fixed;
    top: 0;
    left: 0;
   height: 100vh;
   width: 240px;
   background-color: #111;
    z-index: 1000;
#sidebar .btn {
    font-size: 1rem;
    padding: 0.75rem 1rem;
   border-radius: 0.5rem;
#sidebar .btn:hover {
   background-color: #333;
    color: #fff;
main {
   margin-left: 240px;
#searchbarCreateSection {
    gap: 1rem;
#searchbarSection input {
    border-radius: 0.5rem 0 0 0.5rem;
#searchbarSection button {
    border-radius: 0 0.5rem 0.5rem 0;
```





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```
#adboardOuter {
   height: 200px;
    background-image: url('banner-placeholder.jpg');
    background-size: cover;
    background-position: center;
   border-radius: 1rem;
   display: flex;
    align-items: center;
    justify-content: center;
    font-size: 1.5rem;
    font-weight: bold;
#filter button {
    padding: 0.5rem 1rem;
   border-radius: 2rem;
    font-size: 0.9rem;
#mainVideoContainer {
    display: flex;
    flex-wrap: wrap;
    gap: 1.5rem;
.videoCard {
   width: 100%;
   background-color: white;
    border-radius: 1rem;
   box-shadow: 0 0.5rem 1rem rgba(0,0,0,0.1);
    overflow: hidden;
    transform: scale(1.02);
```





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width: 100%;
height: 180px;
object-fit: cover;
}

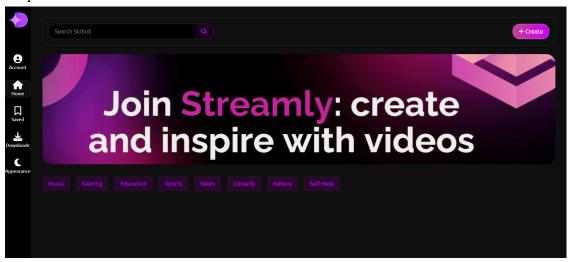
.videoInfo {
 padding: 1rem;
}

.videoTitle {
 font-weight: 600;
 font-size: 1rem;
 margin-bottom: 0.5rem;
}

.videoMeta {
 font-size: 0.85rem;

Output:

color: #6c757d;



2.





(A Constituent College of Somaiya Vidyavihar University) rel="stylesheet' href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstra p.min.css"> text-align: center; margin-top: 20px; .search-box { margin-top: 30px; text-align: center; width: 150px; height: 150px; (div class="container"> <h1>Welcome to My Webpage</h1> Using Bootstrap 3 Features <div class="row center-text"> class="img-circle"> <div class="row" style="margin-top: 40px;"> <div class="well">Column 1</div> <div class="col-sm-4"> <div class="col-sm-4"> <div class="well">Column 3</div>





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```
<div class="search-box">
     <div class="input-group" style="max-width: 300px; margin: 0</pre>
auto;">
                           type="text"
                                         class="form-control"
placeholder="Search">
       <i class="glyphicon glyphicon-search"></i>
 <div class="row center-text" style="margin-top: 40px;">
     <a href="#">&laquo;</a>
     <a href="#">1</a>
     <a href="#">2</a>
     <a href="#">3</a>
     <a href="#">4</a>
     <a href="#">5</a>
     <a href="#">&raquo;</a>
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.
min.js"></script>
```





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Welcome to My Webpage

Column 1

Column 2

Column 3

Search

Q





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Post Lab Ouestions:

1. What is the use of containers in bootstrap? Explain in detail.

- A. Containers are the basic building blocks in Bootstrap layout. They are used to wrap site contents and provide proper alignment and responsive spacing. Containers help organize the structure of a webpage and ensure that the layout adjusts neatly on different screen sizes. There are two main types of containers in Bootstrap:
 - .container:
 - Provides a fixed-width layout
 - Width changes at different breakpoints (responsive).
 - Adds left and right padding to center the content.
 - .container-fluid:
 - Provides a full-width layout.
 - Stretches to 100% of the viewport width on all screen sizes.
 - Useful when you want content to span the entire width of the page.

Name the classes to achieve the different button styles in bootstrap. 2.

Bootstrap offers a variety of predefined button styles that are easy to use and look Α. consistent across all devices. Each button must use the base class .btn followed by a specific style class to indicate its purpose.

Common Button Classes:

- .btn-default: Neutral gray button for general use.
- .btn-primary: Blue button for primary or main actions.
- .btn-success: Green button indicating successful actions.
- .btn-info: Light blue button for informational messages.
- .btn-warning: Orange button for warnings or alerts.
- .btn-danger: Red button for errors or destructive actions.
- .btn-link: Makes a button look like a hyperlink (without background).

Button Size Classes:

- .btn-lg: Large button.
- .btn-sm: Small button.
- .btn-xs: Extra small button (Bootstrap 3 only).
- .btn-block: Full-width button that takes up the entire row.

3. Write details about the Bootstrap Grid system.

The Bootstrap Grid System is a powerful and flexible system for designing responsive page layouts. It is based on a 12-column layout, where the screen width is divided into 12 equal parts. You can use combinations of these columns to structure your content. **Key Features:**

- Uses rows and columns to organize content.
- Columns must be placed inside .row elements.
- The grid is responsive and adjusts based on screen size.

Responsive Classes (by screen size):

- .col-xs-*: Extra small devices (phones, <576px).
- .col-sm-*: Small devices (tablets, ≥576px).
- .col-md-*: Medium devices (desktops, \geq 768px).
- .col-lg-*: Large devices (larger desktops, ≥992px).
- .col-xl-*: Extra large devices (≥1200px).





K. J. Somaiya College of Engineering, Mumbai-77 (A Constituent College of Somaiya Vidyavihar University)