**Bootstrap Carousel**

* Carousel is used for creating sliding and fading contents.
* It is used to create dynamic slide show with manual and auto navigation
* It uses CSS and jQuery attribute to handle interactions.

**Basic Carousel Classes**

|  |  |
| --- | --- |
| **Class** | **Description** |
| .carousel | It is a container for sliding and fading contents. |
| .carousel-inner | It defines a collection of items in carousel.  All items in carouse must be defined in carousel inner. |
| .carousel-item | It defines an individual carousel item.  The banner or text to slide or fade is defined here. |
| .active | It is used to start the carouse with specific item.  Every carousel must have only one item active. |
| .slide | It gives sliding effect. |
| .fade | It give the fading effect. |

**Basic jQuery attribute**

|  |  |
| --- | --- |
| data-ride | It Starts the carousel. You can define carousel a value for data-ride. |

Ex:

<!DOCTYPE html>

<html>

<head>

<title>Carousel</title>

<link rel="stylesheet" href="../node\_modules/bootstrap/dist/css/bootstrap.css">

<script src="../node\_modules/jquery/dist/jquery.js"></script>

<script src="../node\_modules/bootstrap/dist/js/bootstrap.bundle.js"></script>

</head>

<body class="container-fluid">

<div class="carousel slide" data-ride="carousel">

<div class="carousel-inner">

<div class="carousel-item active">

<img class="d-block w-100" src="../Images/banner1.PNG">

</div>

<div class="carousel-item">

<img class="d-block w-100" src="../Images/banner2.PNG">

</div>

<div class="carousel-item">

<img class="d-block w-100" src="../Images/banner3.PNG">

</div>

</div>

</div>

</body>

</html>

**Carousel with Control:**

* Controls allow to navigate between slides.
* The controls are defined inside the carousel.
* Technically carouse controls are Hyperlinks with button behaviour.
* Click Next for next slide and previous for previous slide.
* Classes required to create carousel controls

|  |  |
| --- | --- |
| **Class** | **Description** |
| .carousel-control-prev | It adds a previous button. |
| .carousel-control-prev-icon | It is icon used for previous button. |
| .carousel-control-next | It adds a next button. |
| .carousel-control-next-icon | It adds next icon for next button. |

* The functionality for navigating previous and next is give by using jQuery Attributes

|  |  |
| --- | --- |
| **Attribute** | **Description** |
| data-slide | It defines the slide to specific items.  You can use:  data-slide=”prev” for previous  data-slide=”next” for next |
| role | It is an attribute use to specify the role of elements like dialog, alert, modal, button etc. |

**Note:** Every page can have multiple carousel contents. You need a unique ID for reference. Control usually refer to the ID of carousel.

**Ex:**

<!DOCTYPE html>

<html>

<head>

<title>Carousel</title>

<link rel="stylesheet" href="../node\_modules/bootstrap/dist/css/bootstrap.css">

<script src="../node\_modules/jquery/dist/jquery.js"></script>

<script src="../node\_modules/bootstrap/dist/js/bootstrap.bundle.js"></script>

</head>

<body class="container-fluid">

<div id="mainCarousel" class="carousel slide" data-ride="carousel">

<div class="carousel-inner">

<div class="carousel-item active">

<img class="d-block w-100" src="../Images/banner1.PNG">

</div>

<div class="carousel-item">

<img class="d-block w-100" src="../Images/banner2.PNG">

</div>

<div class="carousel-item">

<img class="d-block w-100" src="../Images/banner3.PNG">

</div>

</div>

<!--Carousel Inner Ends-->

<!--Carousel Controls-->

<a href="#mainCarousel" role="button" data-slide="prev" class="carousel-control-prev">

<span class="carousel-control-prev-icon"></span>

</a>

<a href="#mainCarousel" role="button" data-slide="next" class="carousel-control-next">

<span class="carousel-control-next-icon"></span>

</a>

</div>

</body>

</html>

**Carousel Indicators:**

* Indicators allow to slide to any specific item in carousel.
* Indicators will show how many items are there.
* The classes required for adding indicators

|  |  |
| --- | --- |
| **Class** | **Description** |
| .carousel-indicators | It is a collection of indicators.  Usually indicators collection is defined with a set of items in <ol> or <ul>. |

* The jQuery attributes used by indicators

|  |  |
| --- | --- |
| **Attribute** | **Description** |
| data-target | It specifies the ID of carousel.  Indicators should refer to ID of carousel. |
| data-slide-to-number | It indicates the index number of items to slide. Index starts with 0.  Every indicator is defined with data-slide-to |

Ex:

<!DOCTYPE html>

<html>

<head>

<title>Carousel</title>

<link rel="stylesheet" href="../node\_modules/bootstrap/dist/css/bootstrap.css">

<script src="../node\_modules/jquery/dist/jquery.js"></script>

<script src="../node\_modules/bootstrap/dist/js/bootstrap.bundle.js"></script>

</head>

<body class="container-fluid">

<div id="mainCarousel" class="carousel slide" data-ride="carousel">

<!--Carousel Indicators-->

<ol class="carousel-indicators">

<li data-target="#mainCarousel" data-slide-to="0" class="active"></li>

<li data-target="#mainCarousel" data-slide-to="1"></li>

<li data-target="#mainCarousel" data-slide-to="2"></li>

</ol>

<div class="carousel-inner">

<div class="carousel-item active">

<img class="d-block w-100" src="../Images/banner1.PNG">

</div>

<div class="carousel-item">

<img class="d-block w-100" src="../Images/banner2.PNG">

</div>

<div class="carousel-item">

<img class="d-block w-100" src="../Images/banner3.PNG">

</div>

</div>

<!--Carousel Inner Ends-->

<!--Carousel Controls-->

<a href="#mainCarousel" role="button" data-slide="prev" class="carousel-control-prev">

<span class="carousel-control-prev-icon"></span>

</a>

<a href="#mainCarousel" role="button" data-slide="next" class="carousel-control-next">

<span class="carousel-control-next-icon"></span>

</a>

</div>

</body>

</html>

**Carousel Slide Timing**

* You can use the attribute “data-interval” to defined timing for every carousel item.
* It uses milliseconds to define the timing [1000ms = 1sec].

Ex:

<!DOCTYPE html>

<html>

<head>

<title>Carousel</title>

<link rel="stylesheet" href="../node\_modules/bootstrap/dist/css/bootstrap.css">

<script src="../node\_modules/jquery/dist/jquery.js"></script>

<script src="../node\_modules/bootstrap/dist/js/bootstrap.bundle.js"></script>

</head>

<body class="container-fluid">

<div id="mainCarousel" class="carousel slide" data-ride="carousel">

<!--Carousel Indicators-->

<ol class="carousel-indicators">

<li data-target="#mainCarousel" data-slide-to="0" class="active"></li>

<li data-target="#mainCarousel" data-slide-to="1"></li>

<li data-target="#mainCarousel" data-slide-to="2"></li>

</ol>

<div class="carousel-inner">

<div class="carousel-item active" data-interval="2000">

<img class="d-block w-100" src="../Images/banner1.PNG">

</div>

<div class="carousel-item" data-interval="1000">

<img class="d-block w-100" src="../Images/banner2.PNG">

</div>

<div class="carousel-item" data-interval="4000">

<img class="d-block w-100" src="../Images/banner3.PNG">

</div>

</div>

<!--Carousel Inner Ends-->

<!--Carousel Controls-->

<a href="#mainCarousel" role="button" data-slide="prev" class="carousel-control-prev">

<span class="carousel-control-prev-icon"></span>

</a>

<a href="#mainCarousel" role="button" data-slide="next" class="carousel-control-next">

<span class="carousel-control-next-icon"></span>

</a>

</div>

</body>

</html>