

WEB PROGRAMMING2: PHP-OOP

Lets create a PHP Class for our bootstrap slideshow. First lets think about the structure of our slider. There are three main components: the indicators, slide images, and controls (outlined below). We can include some variables to customize our slideshow upon initialization. For example we can control the slide interval timing with: data-interval="--time in millsec".

```
<div id="carousel-example-generic" class="carousel slide" data-ride="carousel">
  <!-- Indicators -->
  <ol class="carousel-indicators">
    <li data-target="#carousel-example-generic" data-slide-to="0" class="active"></li>
    <li data-target="#carousel-example-generic" data-slide-to="1"></li>
    <li data-target="#carousel-example-generic" data-slide-to="2"></li>
  </ol>

  <!-- Wrapper for slides -->
  <div class="carousel-inner" role="listbox">
    <div class="item active">
      
      <div class="carousel-caption">
        ...
      </div>
    </div>
    <div class="item">
      
      <div class="carousel-caption">
        ...
      </div>
    </div>
    ...
  </div>

  <!-- Controls -->
  <a class="left carousel-control" href="#carousel-example-generic" role="button" data-slide="prev">
    <span class="glyphicon glyphicon-chevron-left" aria-hidden="true"></span>
    <span class="sr-only">Previous</span>
  </a>
  <a class="right carousel-control" href="#carousel-example-generic" role="button" data-slide="next">
    <span class="glyphicon glyphicon-chevron-right" aria-hidden="true"></span>
    <span class="sr-only">Next</span>
  </a>
</div>
```

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Lets go ahead and create our Slide class in a slider.php file which we will include in our homepage. To start lets set up some properties that we will need for the class, a \$conn to hold our MYSQLI connection and \$slideData to hold the MYSQLI return object from our query. Create a constructor to assign these variables. Since the \$conn is created elsewhere lets pass it into the class when an object is created and assign it to the \$conn property within our class. We'll create a method to get the slide data and assign it to the \$slideData also.

```
11 class Slider {
12     protected $conn;
13     public $slides;
14     public $slideData;
15
16     public function __construct($conn) {
17         $this->conn = $conn;
18         $this->slideData = $this->getSlidesData();
19         if($conn->connect_errno > 0){
20             die('Unable to connect to database');
21         } else {
22             // echo "connection success";
23         }
24     }
}
```

Next lets make sure we can connect to the DB and bring in some slides for our slideshow:

```
30     protected function getSlidesData() {  
31         $query = "SELECT * FROM slides1";  
32         return mysqli_query($this->conn,$query);  
33     }  
34
```

Once we have our data we can use it to set up the two dynamic parts of the slider: the indicators and the actual slides. The indicators need to know how many slides we have:

```
49     public function getIndicators() {  
50         $x = mysqli_num_rows($this->slideData);  
51         for ($i=0; $i < $x; $i++) {  
52             if ($i == 0) {  
53                 $class = "active";  
54             } else {  
55                 $class = "";  
56             }  
57             echo '<li data-target="#carousel-generic" data-slide-to="' . $i . '"  
58                 * class="' . $class . '"></li>';  
59         }  
60     }
```

Next we can actually bring in the slides. The first slide needs a class of 'active':

```
35     protected function getImages() {
36         $x = 0;
37         while ($row = mysqli_fetch_array($this->slideData)) {
38             if($x == 0) {
39                 $class = " active";
40             } else {
41                 $class = "";
42             }
43             echo '<div class="item' . $class . '">
44                 <div class="carousel-caption">'
45                 • . $row['caption'] . '</div></div>';
46                 $x++;
47             }
48         }
```

Finally bring it all together and output the slideshow HTML:

```
62 public function getSlides() {
63     $slideshow = "";
64     $slideshow.= '<div id="carousel-generic" class="carousel slide"
    • data-ride="carousel">';
65     $slideshow.= '<ol class="carousel-indicators">';
66     echo $slideshow;
67
68     // Output slide indicators
69     echo $this->getIndicators();
70     $slideshow = "";
71     $slideshow.= '</ol><div class="carousel-inner">';
72     echo $slideshow;
73     // output slide images + captions
74     echo $this->getImages();
75     $slideshow = "";
76     $slideshow.= '</div><a class="left carousel-control" href="#carousel-generic"
    • data-slide="prev">';
77     $slideshow.= '<span class="glyphicon glyphicon-chevron-left"></span></a>';
78     $slideshow.= '<a class="right carousel-control" href="#carousel-generic"
    • data-slide="next">';
79     $slideshow.= '<span class="glyphicon
    • glyphicon-chevron-right"></span></a></div>';
80     echo $slideshow;
81 }
82 }
83
84
```