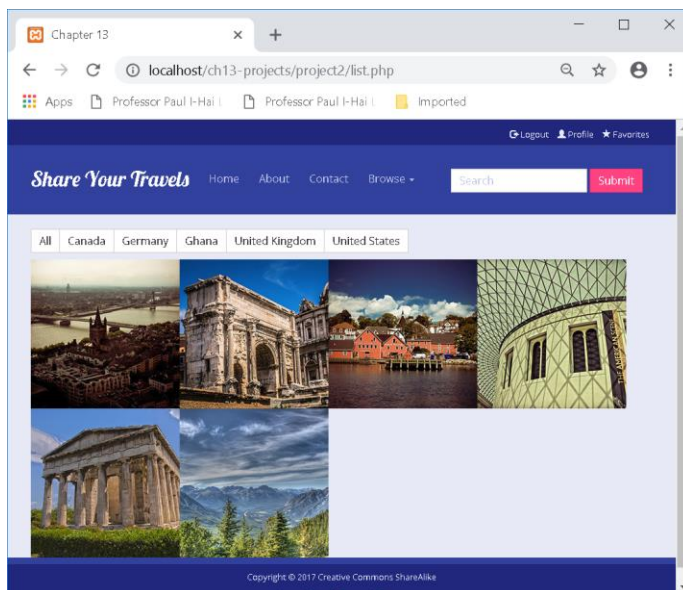


Chapter 13 Project 2: Share Your Travel Photos -2

list.php

- Include travel-data-classes.php INCLUDE
 - Location.class.php
 - `__construct()`
 - `public function lat()`
 - `public function lng()`
 - TravelPhoto.class.php
 - `__construct($filename, $title, $description, $latitude)`
 - `__toString()`
 - `public function nearest($allPhotos)`
 - `public function distanceTo($photo)`
 - `public function path()`
 - `public function lat()`
 - `public function lng()`
 - `public function title()`
 - `public function location()`
 - `public function description()`
 - `public function id()`
 - `public function city()`



<?php

/*

Represents a Location on the earth

*/

//Location.class.php

class Location

{

private \$latitude;

private \$longitude;

private \$city;

```

// constructor is
function __construct($latitude, $longitude, $city) {
    $this->latitude = $latitude;
    $this->longitude = $longitude;
    $this->city = $city;
}

public function lat(){
    return $this->latitude;
}

public function lng(){
    return $this->longitude;
}

}

?>

<?php
//travel-data-classes.php
include('Location.class.php');
include('TravelPhoto.class.php');

$continents = array("Asia","Africa","Europe","North America","South America", "Oceania");
$countries = array();
$countries["US"] = "United States";
$countries["DE"] = "Germany";
$countries["GH"] = "Ghana";
$countries["CA"] = "Canada";
$countries["GB"] = "United Kingdom";
$images = array();
$images[] = new TravelPhoto("6114850721.jpg", "View of Cologne", "View of Cologne from atop the
Cologne Cathedral", 50.941149, 6.957358 );

$images[] = new TravelPhoto("9495574327.jpg", "Arch of Septimus Severus", "In the Roman Forum",
41.892949, 12.484972);

$images[] = new TravelPhoto("5856697109.jpg", "Lunenburg Port", "On board a small sailing ship
leaving Lunenburg", 44.373257, -64.307249);

$images[] = new TravelPhoto("5855729828.jpg", "British Museum", "The library in the British Museum
in London", 51.519148, -0.126826);

```

```
$images[] = new TravelPhoto("8711645510.jpg", "Temple of Hephaistos", "Located on western
perimeter of Agora in Athens. Built in 460-415 BCE, it is the best preserved temple of antiquity.",
37.975579, 23.721526);
```

```
$images[] = new TravelPhoto("6114907897.jpg", "At the top of Sulpher Mountain", "At top of Sulpher
Mountain near Banff", 51.144571, -115.57467);
```

```
?>
```

```
/*
```

```
Represents a single travel photo
```

```
*/
```

```
class TravelPhoto
```

```
{
```

```
static private $photoID = 0;
```

```
private $ID;
```

```
private $date;
```

```
private $fileName;
```

```
private $description;
```

```
private $title;
```

```
private $latitude;
```

```
private $longitude;
```

```
// constructor is
```

```
function __construct($filename, $title, $description, $latitude, $longitude) {
```

```
    $this->fileName = $filename;
```

```
    $this->title = $title;
```

```
    $this->description = $description;
```

```
    $this->location = new Location($latitude,$longitude,"");
```

```
    self::$photoID++;
```

```
    $this->ID = self::$photoID;
```

```
}
```

```
public function __toString() {
```

```
    $tag = '<a href="detail.php?id=' . $this->ID . '" class="img-responsive">';
```

```
    $tag .= 'fileName . '" title=" . $this->title . '" alt=" . $this->title . '"
```

```
>';
```

```
    $tag .= '<div class="caption"><div class="blur"></div><div class="caption-text"><h1>' . $this->title .
```

```
    '</h1></div></div></a>';
```

```
    return $tag;
```

```
}
```

```
//function to get the nearest travel photo from a passed in array.
```

```
function nearest($allPhotos) {
```

```
    $smallest=9999999;
```

```
    foreach ($allPhotos as $onePhoto) {
```

```

    if ($onePhoto->path() == $this->path()) {
        continue;//same photo.
    }
    //Now calculate distance.
    //Note - This calculation works roughly. The correct calculation uses the haversine formula -
    beyond the scope of this project and left as an exercise.
    $distance = sqrt(pow(abs($onePhoto->lat()-$this->lat()),2) + pow(abs($onePhoto->lng()-$this-
    >lng()),2));
    //echo $distance."<br>";
    if ($distance < $smallest) {
        $smallest = $distance;
        $nearestID = $onePhoto->id();
    }
}
return $nearestID;
}

public function distanceTo($photo) {
    $distance = sqrt(square(abs($photo->lat()-$this->lat())) + square(abs($photo->lng()-$this->lng())));
}

public function path() {
    return $this->fileName;
}

public function lat(){
    return $this->location->lat();
}

public function lng(){
    return $this->location->lng();
}

public function title(){
    return $this->title;
}

public function location(){
    return $this->location;
}

public function description(){
    return $this->description;
}

public function id(){
    return $this->ID;
}

```

```

    public function city(){
        return ""; //to be completed in a later exercise.
    }

}

?>

<?php
//travel-data.classes.php
include('Location.class.php');
include('TravelPhoto.class.php');
$continents = array("Asia", "Africa", "Europe", "North America", "South America", "Oceania");
$countries = array();
$countries["DE"] = "Germany";
$countries["GR"] = "Greece";
$countries["IT"] = "Italy";
$countries["CA"] = "Canada";
$countries["GB"] = "United Kingdom";
$countries["US"] = "United States";

$images = array();
$images[1] = array("id"=>1, "title" => "View of Cologne", "description" => "View of Cologne from atop
the Cologne Cathedral", "country" => "Germany", "city" => "Cologne", "user" => "Joao Fernandes",
"path" => "6114850721.jpg", "taken" => "August 8, 2017", "tags" => array("cathedral", "high", "birds-
eye"));

$images[2] = array("id"=>2, "title" => "Arch of Septimus Severus", "description" => "In the Roman
Forum", "country" => "Italy", "city" => "Rome", "user" => "Ellie Sullivan", "path" => "9495574327.jpg",
"taken" => "August 15, 2017", "tags" => array("rome", "ruins", "ancient", "assassinated"));

$images[3] = array("id"=>3, "title" => "Lunenburg Port", "description" => "On board a small sailing ship
leaving Lunenburg", "country" => "Canada", "city" => "Lunenburg", "user" => "Mark Taylor", "path" =>
"5856697109.jpg", "taken" => "August 28, 2017", "tags" => array("maritimes", "nova
scotia", "yacht", "port"));

$images[4] = array("id"=>4, "title" => "British Museum", "description" => "The library in the British
Museum in London", "country" => "United Kingdom", "city" => "London", "user" => "Mark Taylor",
"path" => "5855729828.jpg", "taken" => "September 3, 2017", "tags" => array("museum", "karl
marx", "reading room", "shadows", "yellow"));

$images[5] = array("id"=>5, "title" => "Temple of Hephaistos", "description" => "Located on western
perimeter of Agora in Athens. Built in 460-415 BCE, it is the best preserved temple of antiquity.",
"country" => "Greece", "city" => "Athens", "user" => "Ellie Sullivan", "path" => "8711645510.jpg",
"taken" => "October 10, 2017", "tags" => array("ancient", "garden", "ruins", "sunshine"));

```

```
$images[6] = array("id"=>6,"title" => "At the top of Sulphur Mountain", "description" => "At top of
Sulphur Mountain near Banff", "country" => "Canada", "city" => "Banff", "user" => "Frantisek
Wichterlova", "path" => "6114907897.jpg", "taken" => "October 15, 2017", "tags" =>
array("mountain","banff","valley"));
```

```
$images[7] = array("id"=>7,"title" => "Pazzi Chapel at Santa Croce", "description" => "By Filippo
Brunelleschi, the chapel is considered to be one of the masterpieces of Renaissance architecture. It is
located in the first cloister of the Basilica di Santa Croce.", "country" => "Italy", "city" => "Florence",
"user" => "Frantisek Wichterlova", "path" => "9504609042.jpg", "taken" => "October 23, 2017", "tags"
=> array("florence","cathedral","church","brunelleschi"));
?>
```

```
<?php
//List.php - Ch 13. Project 2
include 'travel-data-classes.php';
asort($countries);
// we will display the filtered array
$filtered = array();
// first see if we should filter the countries
if (isset($_GET['country'])) {
    // loop thru each image in dataset and see if its country matches request
    foreach ($images as $img) {
        if ($img['country'] == $_GET['country']) {
            // we have a match so add that image to filtered array
            $filtered[$img['id']] = $img;
        }
    }
}
else {
    // no filter was specified so show all images in dataset
    $filtered = $images;
}
?>
```

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
    <meta charset="utf-8">
    <title>Chapter 13</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link href='http://fonts.googleapis.com/css?family=Lobster' rel='stylesheet' type='text/css'>
    <link href='http://fonts.googleapis.com/css?family=Open+Sans' rel='stylesheet' type='text/css'>
    <link rel="stylesheet" href="css/bootstrap.min.css" />
    <link rel="stylesheet" href="css/bootstrap-theme.css" />
```

```

    <link rel="stylesheet" href="css/captions.css" />
</head>
<body>
    <?php include 'header.inc.php'; ?>
    <!-- Page Content -->
    <main class="container">
        <div class="btn-group countryButtons" role="group" aria-label="...">
            <a role="button" class="btn btn-default" href="list.php">All</a>
            <?php foreach ($countries as $key => $value) { ?>
                <a href="#" role="button" class="btn btn-default"> <?php echo $value; ?></a>
            <?php } ?>
        </div>
        <ul class="caption-style-2">
            <?php foreach ($filtered as $img) { ?>
                <li>
                    <?php echo $img; ?>
                </li>
            <?php } ?>
        </ul>

    </main>
    <footer>
        <div class="container-fluid">
            <div class="row final">
                <p>Copyright &copy; 2017 Creative Commons ShareAlike</p>
                <p><a href="#">Home</a> / <a href="#">About</a> / <a href="#">Contact</a> / <a
href="#">Browse</a></p>
            </div>
        </div>
    </footer>
    <script src="https://code.jquery.com/jquery-2.2.4.min.js" integrity="sha256-
BbhdLvQf/xTY9gja0Dq3HiwQF8LaCRTXxZKRutelT44=" crossorigin="anonymous"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js"
integrity="sha384-0mSbJDEHialfmuBBQP6A4Qrprq5OVfW37PRR3j5ELqxs1yVqOtnepnHVP9aJ7xS"
crossorigin="anonymous"></script>
</body>
</html>

```