PA3: Technical Report & Personal Reflection

AJAX IMPLEMENTATION

For this website, AJAX has been implemented in the *browse.php* page to support pagination and filtering without having to refresh the page. For this to work, I had to edit last week's code to focus on javascript's get function instead of using php's post function. Information needed to be gotten from another file named *getresult.php*, which had the database connection, query, and is also connected to the *pagination.class.php* file (for the logistics on the number of postings on each page, as well as the navigation buttons). To do this, I used the javascript code below:

```
<script>
function getresult(url) {
    $.ajax({
        url: url,
        type: "GET",
        data:  {rowcount:$("#rowcount").val()},
        success: function(data){
        $("#pagination-result").html(data);
        },
        error: function()
        {}
    });
}
function changePagination(option) {
    if(option!= "") {
        getresult("getresult.php");
    }
}
</script>
```

On the *pagination.class.php* page, the calculations for each navigation button (ie. previous, next, first, last, numbered) are calculated so they can be implemented.

Different actions available for pagination:

THE PHOTOGRAMMER

CAPILANO SUSPENSION BRIDGE
Vancouver, BC

CYPRESS PROVINCIAL PARK
Vancouver, BC

GRANVILLE ISLAND
Vancouver, BC

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USER CUSTOMIZATION

To give users a unique experience when using the website, registered users are able to set the city of their choice inside their settings, like so:

Set your city of choice:
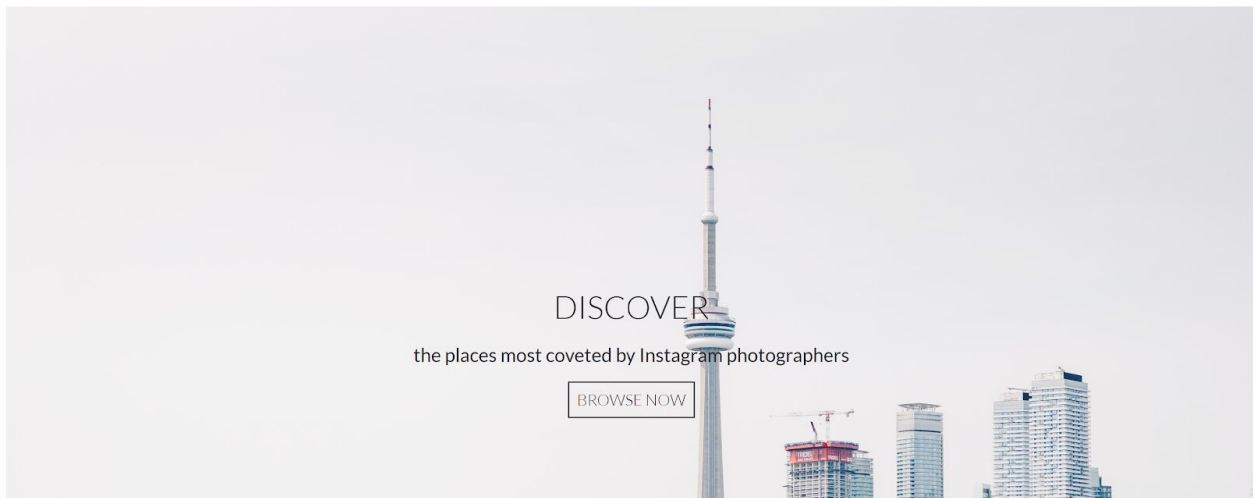
Vancouver ▾

Change

When this is set in the settings, the front page *index.php*'s main image will change accordingly to either a Vancouver or Toronto view.

Toronto:

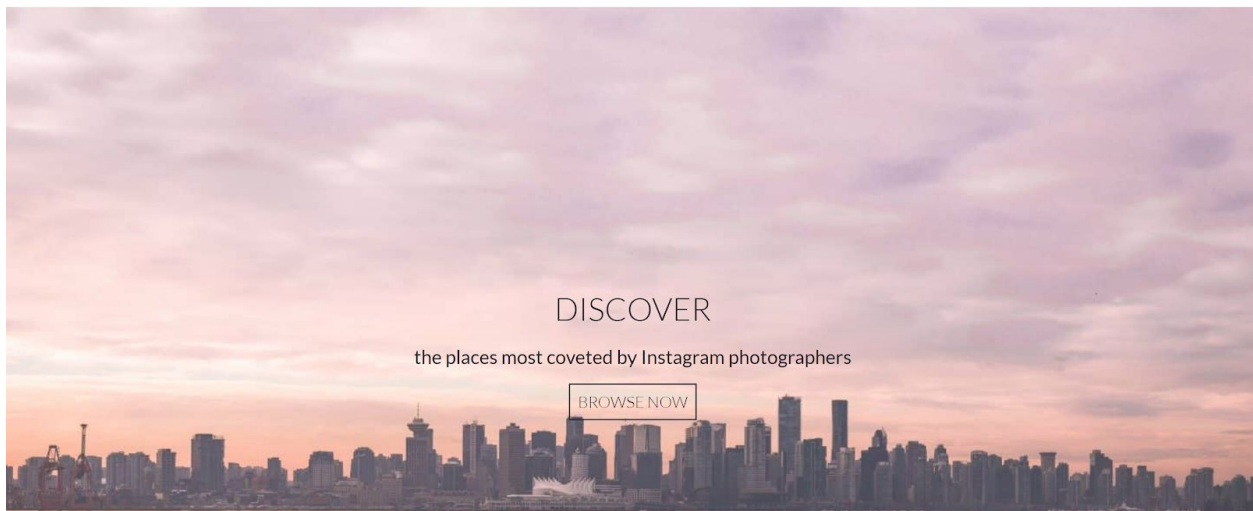THE PHOTOGRAMMER   Browse   My Account

DISCOVER

the places most coveted by Instagram photographers

BROWSE NOW

Vancouver:

THE PHOTOGRAMMER   Browse   My Account

DISCOVER

the places most coveted by Instagram photographers

BROWSE NOW

In order to implement this, a session active check had to be implemented into the *index.php* page:

```php
session_start();

if(isset($_SESSION["username"])){
    $query = "SELECT `city` FROM `users` WHERE username=
'".$_SESSION['username']."'";
    $result = mysqli_query($con, $query);
```

```
    // Test if there was a query error
    if (!$result) {
      die("Database query failed.");
    }
}
```

It also needed to account for both registered users and non registered users when showing the image, which was done like this:

```
if(isset($_SESSION["username"])){
      $data = mysqli_fetch_assoc($result); ?>
    <img src="img/<?php echo $data['city']?>.jpg"><?php } else { ?>
    <img src="img/vancouver.jpg"><?php } ?>
```

LEARNING EXPERIENCE, CHALLENGES, OUTCOMES

The full semester project was definitely very tough for me. As I had to miss many classes throughout the semester for mandated events from the business school, and could not attend many office hours, much of my work I learned alone through online resources, tutorial materials, and going through lectures.Other challenges were the disconnect between online resources and lecture resources. While I would be able to find a solution online, it was sometimes done very differently from coursework and because I wanted to follow coursework instead, I had to revisit my problems and solutions to figure out how to connect them together.

Although these were a big roadblock to my success and the biggest challenges, I also learned how to understand code on my own, reading through resources to understand everything instead of just copying work without knowing what it means. I understood the importance of putting in lots of work and the great outcomes that can come out of it.

Although this final submission was what I believe not to the best of my ability, I also know that with all the finals and projects that were due this week and last that I truly gave it my best and will be satisfied with the outcome regardless of the grade. I understand the value that this project has given me and I know all the work I put into it.

In summary, some of the outcomes I have had with this project are:
- Understanding of PHP, developing understanding of JS & AJAX,
- Improving work ethic to make up for missed classes,
- Learning how to solve disconnect between online and course resources.