

Due Date: TUESDAY March 31st, 2020 11:59 pm

Total Marks: 24

Remote Calls and XHR (24 Marks)

The goal of this assignment increases your understanding of asynchronous communication and the JSON format.

Interaction Explanation

Create a page that uses XHR to communicate with an external URL and retrieve values in JSON and generate colour swatches based on the returned values.

- Include a button on the page that says “Request Swatch”.
- Clicking the button will trigger an XHR request to the `colors.php` file located in the Assignment folder on the website.
 - You must include a *passcode* with a value of `secret!` using the *GET* method
 - You must take the response (JSON) and create a new *color swatch box*

Color Swatch Box Specifications

- The background color should match what is returned from the server.
- The text inside the box should be the name of the swatch.
- Each box must be 200x200 pixels, which means the background colour as seen by the user is 200x200.
- We don’t want the text touching the edge, so make sure there’s 10px of padding on it.
- Boxes should have 20px margin between them, so they don’t touch.
- The titles of the colors must be in white.
- The boxes should sit next to each other and continue to spill over, left to right as more are added. They should spill to new lines if needed.

Failed Request Testing

We should also test what a failed request looks like.

- Create a second button on your page that says “Request Failure”
- Clicking on the second button will trigger a different XHR request to the `colors.php` file but *without* the passcode.
- Your code must detect the error and present the error message in a `<h2>`
- Your code should clear the message whenever a successful call is made.

Hand In Instructions:

Zip all files into a single archive named *StudentNumber_Assignment4.zip*. Submit the zip file to the marker at 2909-051@acs.uwinnipeg.ca.

You *must* use your uwinnipeg email address!

Please allow yourself time to package the file and send it. Anything *received* after the deadline is considered late.