*PRODUCT QUERY*

**//*function for filtering products category(must be added on function.php)***

function *fetch\_products\_by\_category*() {

    $category\_id = isset($\_POST['category\_id']) ? intval($\_POST['category\_id']) : 0;

    $min\_price = isset($\_POST['min\_price']) ? floatval($\_POST['min\_price']) : 0;

    $max\_price = isset($\_POST['max\_price']) ? floatval($\_POST['max\_price']) : 999999;

    $color = isset($\_POST['color']) ? *sanitize\_text\_field*($\_POST['color']) : '';

    $args = array(

        'post\_type' => 'product',

        'posts\_per\_page' => -1,

        'meta\_query' => array(

            'relation' => 'AND'

        ),

        'tax\_query' => array(

            'relation' => 'AND'

        )

    );

    // *Apply category filter if provided*

*if* ($category\_id) {

        $args['tax\_query'][] = array(

            'taxonomy' => 'product\_cat',

            'field' => 'term\_id',

            'terms' => $category\_id,

        );

    }

    // *Apply price range filter if provided*

*if* ($min\_price || $max\_price) {

        $args['meta\_query'][] = array(

            'key' => '\_price',

            'value' => array($min\_price, $max\_price),

            'compare' => 'BETWEEN',

            'type' => 'NUMERIC'

        );

    }

    // *Apply color filter if provided*

*if* ($color) {

        $args['tax\_query'][] = array(

            'taxonomy' => 'pa\_color',

            'field' => 'slug',

            'terms' => $color,

            'operator' => 'IN',

            'include\_children' => false

        );

    }

    // *Execute query*

    $products = new WP\_Query($args);

*if* ($products->*have\_posts*()) {

*while* ($products->*have\_posts*()) {

            $products->*the\_post*();

*wc\_get\_template\_part*('content', 'product');

        }

*wp\_reset\_postdata*();

    } *else* {

        echo 'No products found';

    }

*wp\_die*();

}

*add\_action*('wp\_ajax\_fetch\_products\_by\_category', 'fetch\_products\_by\_category');

*add\_action*('wp\_ajax\_nopriv\_fetch\_products\_by\_category', 'fetch\_products\_by\_category');

**//custom ajax-code for product query**

*jQuery*(document)*.ready*(function ($) {

  function *fetchProducts*(category\_id = "") {

    varmin\_price= *$*("#min\_price")*.val*()||0;

    varmax\_price= *$*("#max\_price")*.val*()||999999;

    varcolor= *$*("#color")*.val*()||"";

    varnonce= *$*("#fetch\_products\_nonce")*.val*();

*$.ajax*({

      type: "POST",

      url: *ajax\_params.*ajax\_url,

      data: {

        action: "fetch\_products\_by\_category",

        category\_id: category\_id,

        min\_price: min\_price,

        max\_price: max\_price,

        color: color,

        nonce: nonce,

      },

*success*: function (response) {

*$*("#product-list")*.html*(response);

      },

*error*: function (response) {

*console.log*("Error:", response);

      },

    });

  }

  // *Trigger fetch on category click*

*$*(".product-category-link")*.on*("click", function (e) {

*e.preventDefault*();

    varcategory\_id= *$*(*this*)*.data*("category-id");

*fetchProducts*(category\_id);

  });

  // *Trigger fetch on filter change*

*$*("#min\_price, #max\_price, #color")*.on*("change", function () {

*fetchProducts*(*$*("#selected\_category")*.val*());

  });

});

**//search with suggestion(must be added on function.php)**

function *fetch\_product\_search\_suggestions*() {

    // *Verify nonce for security*

*if* (!isset($\_POST['nonce']) || !*wp\_verify\_nonce*($\_POST['nonce'], 'fetch\_products\_nonce')) {

*die*('Permission denied');

    }

    $search\_query = isset($\_POST['query']) ? *sanitize\_text\_field*($\_POST['query']) : '';

*if* (empty($search\_query)) {

*wp\_die*();

    }

    $args = array(

        'post\_type' => 'product',

        'posts\_per\_page' => 10,

        's' => $search\_query,

    );

    $query = new WP\_Query($args);

    $suggestions = array();

*if* ($query->*have\_posts*()) {

*while* ($query->*have\_posts*()) {

            $query->*the\_post*();

            $suggestions[] = array(

                'title' => *get\_the\_title*(),

                'permalink' => *get\_permalink*(),

                'price' => *wc\_get\_product*()->*get\_price\_html*(),

                'image' => *get\_the\_post\_thumbnail\_url*(*get\_the\_ID*(), 'thumbnail'),

            );

        }

    }

*wp\_reset\_postdata*();

    echo json\_encode($suggestions);

*wp\_die*();

}

*add\_action*('wp\_ajax\_fetch\_product\_search\_suggestions', 'fetch\_product\_search\_suggestions');

*add\_action*('wp\_ajax\_nopriv\_fetch\_product\_search\_suggestions', 'fetch\_product\_search\_suggestions');

**//custom search with suggestion ajax code**

*jQuery*(document)*.ready*(function ($) {

*$*("#product\_search\_input")*.on*("input", function () {

    varquery= *$*(*this*)*.val*();

    varnonce= *ajax\_params.nonce*;

    if (*query.*length < 2) {

*$*("#suggestions")*.hide*();

*return*;

    }

*$.ajax*({

      type: "POST",

      url: *ajax\_params.*ajax\_url,

      data: {

        action: "fetch\_product\_search\_suggestions",

        query: query,

        nonce: nonce,

      },

*success*: function (response) {

        varsuggestions= *JSON.parse*(response);

        varsuggestionsList="";

        if (*suggestions.*length > 0) {

          suggestionsList += "<ul>";

*$.each*(suggestions, function (index, suggestion) {

            suggestionsList += "<li>";

            suggestionsList += '<a href="' + *suggestion.*permalink + '">';

            suggestionsList +=

              '<img src="' +

*suggestion.*image +

              '" alt="' +

*suggestion.*title +

              '">';

            suggestionsList += "<span>" + *suggestion.*title + "</span>";

            suggestionsList +=

              '<span class="price">' + *suggestion.*price + "</span>";

            suggestionsList += "</a>";

            suggestionsList += "</li>";

          });

          suggestionsList += "</ul>";

        } else {

          suggestionsList = "<p>No results found</p>";

        }

*$*("#suggestions")*.html*(suggestionsList)*.show*();

      },

    });

  });

  // *Hide suggestions when clicking outside*

*$*(document)*.on*("click", function (e) {

    if (!*$*(*e.*target)*.closest*("#product\_search\_input, #suggestions")*.*length) {

*$*("#suggestions")*.hide*();

    }

  });

  // *Hide suggestions if the input is empty*

*$*("#product\_search\_input")*.on*("input", function () {

    if (*$*(this)*.val*()*.trim*() === "") {

*$*("#suggestions")*.hide*();

    }

  });

});

**// implementation**

<?php

/\* *Template Name: prc Page* \*/

*get\_header*();

?>

<section>

    <div *class*="container">

        <h2>Hello world</h2>

        <!-- *Search Input* -->

        <div *class*="product-search">

            <input *type*="text" *id*="product\_search\_input" *placeholder*="Search for products...">

            <div *id*="suggestions" *style*="display:none;"></div>

        </div>

        <!-- *Category List* -->

        <?php

        $product\_categories = *get\_terms*(array(

            'taxonomy' => 'product\_cat',

            'hide\_empty' => false,

        ));

*if* (!empty($product\_categories) && !*is\_wp\_error*($product\_categories)) {

            echo '<ul>';

*foreach* ($product\_categories as $category) {

                echo '<li><a href="#" class="product-category-link" data-category-id="' . *esc\_attr*($category->term\_id) . '">' . *esc\_html*($category->name) . '</a></li>';

            }

            echo '</ul>';

        }

        ?>

        <!-- *Price Range Inputs* -->

        <div *class*="price-range">

            <label *for*="min\_price">Min Price:</label>

            <input *type*="number" *id*="min\_price" *name*="min\_price" *value*="0" *min*="0">

            <label *for*="max\_price">Max Price:</label>

            <input *type*="number" *id*="max\_price" *name*="max\_price" *value*="999999" *min*="0">

        </div>

        <!-- *Color Filter Input* -->

        <div *class*="color-filter">

            <label *for*="color">Color:</label>

            <select *id*="color" *name*="color">

                <option *value*="">Select Color</option>

                <?php

                $colors = *get\_terms*(array(

                    'taxonomy' => 'pa\_color', // *Replace with your actual color attribute taxonomy*

                    'hide\_empty' => false,

                ));

*foreach* ($colors as $color) {

                    echo '<option value="' . *esc\_attr*($color->slug) . '">' . *esc\_html*($color->name) . '</option>';

                }

                ?>

            </select>

        </div>

        <!-- *Nonce field for security* -->

        <input *type*="hidden" *id*="fetch\_products\_nonce" *value*="<?php echo *wp\_create\_nonce*('fetch\_products\_nonce'); ?>" />

        <input *type*="hidden" *id*="selected\_category" *value*=""/>

        <div *id*="product-list"></div>

    </div>

</section>

<?php

*get\_footer*();

?>

***POST\_QUERY***

**// filter post by categories(must be inserted on function.php)**

*function filter\_posts\_by\_category() {*

*$category\_id = isset($\_POST['category\_id']) ? intval($\_POST['category\_id']) : 0;*

*$args = array(*

*'post\_type' => 'post',*

*'posts\_per\_page' => -1, // Show all posts*

*'cat' => $category\_id, // Filter by category ID*

*);*

*$query = new WP\_Query($args);*

*if ($query->have\_posts()) {*

*while ($query->have\_posts()) {*

*$query->the\_post();*

*?>*

*<div class="search-results-card">*

*<figure>*

*<?php*

*if (has\_post\_thumbnail()) {*

*the\_post\_thumbnail('medium');*

*} else {*

*echo '<img src="' . get\_template\_directory\_uri() . '/assets/assets/cat.jpeg" alt="" />';*

*}*

*?>*

*</figure>*

*<h2><a href="<?php the\_permalink(); ?>"><?php the\_title(); ?></a></h2>*

*<span><?php the\_excerpt(); ?></span>*

*</div>*

*<?php*

*}*

*wp\_reset\_postdata();*

*} else {*

*echo '<p>No posts found in this category.</p>';*

*}*

*wp\_die();*

*}*

*add\_action('wp\_ajax\_filter\_posts\_by\_category', 'filter\_posts\_by\_category');*

*add\_action('wp\_ajax\_nopriv\_filter\_posts\_by\_category', 'filter\_posts\_by\_category');*

***//custom ajax code for post category***

*jQuery(document).ready(function ($) {*

*$("#category").change(function () {*

*var categoryId = $(this).val(); // Get selected category ID*

*$.ajax({*

*url: ajax\_object.ajax\_url,*

*type: "POST",*

*data: {*

*action: "filter\_posts\_by\_category",*

*category\_id: categoryId,*

*},*

*success: function (response) {*

*$("#post-container").html(response); // Display the posts*

*},*

*error: function () {*

*$("#post-container").html("An error occurred while loading posts.");*

*},*

*});*

*});*

*});*

***//handle post tag(must be included in function.php)***

*function filter\_posts\_by\_tag() {*

*// Set default number of posts per page*

*$posts\_per\_page = 4;*

*$paged = isset($\_POST['page']) ? intval($\_POST['page']) : 1;*

*$offset = ($paged - 1) \* $posts\_per\_page;*

*// Check if a tag is selected*

*if (isset($\_POST['tag\_id']) && !empty($\_POST['tag\_id'])) {*

*$tag\_id = intval($\_POST['tag\_id']);*

*$args = array(*

*'post\_type' => 'post',*

*'posts\_per\_page' => $posts\_per\_page,*

*'paged' => $paged,*

*'offset' => $offset,*

*'tag\_\_in' => array($tag\_id),*

*);*

*} else {*

*// No tag is selected, return the initial set of 4 posts*

*$args = array(*

*'post\_type' => 'post',*

*'posts\_per\_page' => $posts\_per\_page,*

*'paged' => 1, // Ensure we're showing the first page of posts*

*'offset' => $offset,*

*);*

*}*

*// Run the query*

*$query = new WP\_Query($args);*

*// Output posts*

*if ($query->have\_posts()) {*

*while ($query->have\_posts()) {*

*$query->the\_post();*

*?>*

*<div class="search-results-card">*

*<figure>*

*<?php*

*if (has\_post\_thumbnail()) {*

*the\_post\_thumbnail('medium');*

*} else {*

*echo '<img src="' . get\_template\_directory\_uri() . '/assets/assets/cat.jpeg" alt="" />';*

*}*

*?>*

*</figure>*

*<h2><a href="<?php the\_permalink(); ?>"><?php the\_title(); ?></a></h2>*

*<span><?php the\_excerpt(); ?></span>*

*</div>*

*<?php*

*}*

*wp\_reset\_postdata();*

*}*

*// Always die in the end to stop further execution*

*die();*

*}*

*add\_action('wp\_ajax\_filter\_posts\_by\_tag', 'filter\_posts\_by\_tag');*

*add\_action('wp\_ajax\_nopriv\_filter\_posts\_by\_tag', 'filter\_posts\_by\_tag');*

***//cutom ajax code for handling post by tag***

*jQuery(document).ready(function ($) {*

*var page = 1; // Initialize page number*

*function loadPosts(tagId = "") {*

*$.ajax({*

*url: ajax\_object.ajax\_url,*

*type: "POST",*

*data: {*

*action: "filter\_posts\_by\_tag",*

*tag\_id: tagId,*

*page: page,*

*},*

*success: function (response) {*

*if (page === 1) {*

*$("#post-container").html(response);*

*} else {*

*$("#post-container").append(response);*

*}*

*if (!response || response.trim() === "") {*

*$("#load-more").text("No more posts").attr("disabled", "disabled");*

*}*

*},*

*error: function (xhr, status, error) {*

*console.log("Error: " + error);*

*},*

*});*

*}*

*// Load initial posts*

*loadPosts();*

*// Handle tag change*

*$("#postTag").change(function () {*

*page = 1; // Reset page count*

*var tagId = $(this).val();*

*loadPosts(tagId);*

*});*

*// Handle "Load More" click*

*$("#load-more").click(function () {*

*page++;*

*var tagId = $("#postTag").val();*

*loadPosts(tagId);*

*});*

*});*

***// Handle AJAX search request***

*function ajax\_search\_posts() {*

*$search\_query = isset($\_POST['query']) ? sanitize\_text\_field($\_POST['query']) : '';*

*// If search query is empty, return the initial set of 4 posts*

*if (empty($search\_query)) {*

*$args = array(*

*'post\_type' => 'post',*

*'posts\_per\_page' => 4,*

*'paged' => 1, // Ensure we're showing the first page of posts*

*);*

*} else {*

*$args = array(*

*'post\_type' => 'post',*

*'posts\_per\_page' => 4,*

*'s' => $search\_query,*

*);*

*}*

*$query = new WP\_Query($args);*

*if ($query->have\_posts()) {*

*while ($query->have\_posts()) {*

*$query->the\_post();*

*?>*

*<div class="search-results-card">*

*<figure>*

*<?php*

*if (has\_post\_thumbnail()) {*

*the\_post\_thumbnail('medium');*

*} else {*

*echo '<img src="' . get\_template\_directory\_uri() . '/assets/assets/cat.jpeg" alt="" />';*

*}*

*?>*

*</figure>*

*<h2><a href="<?php the\_permalink(); ?>"><?php the\_title(); ?></a></h2>*

*<span><?php the\_excerpt(); ?></span>*

*</div>*

*<?php*

*}*

*wp\_reset\_postdata();*

*} else {*

*echo '<div class="search-results-card">No results found</div>';*

*}*

*wp\_die();*

*}*

*add\_action('wp\_ajax\_search\_posts', 'ajax\_search\_posts');*

*add\_action('wp\_ajax\_nopriv\_search\_posts', 'ajax\_search\_posts');*

***//custom post search ajax code***

*jQuery(document).ready(function ($) {*

*$("#search-by-name").on("input", function () {*

*var query = $(this).val();*

*$.ajax({*

*url: ajax\_object.ajax\_url,*

*type: "POST",*

*data: {*

*action: "search\_posts",*

*query: query,*

*},*

*success: function (response) {*

*if (response) {*

*$("#post-container").html(response);*

*$("#load-more").data("page", 1); // Reset page number for new search*

*} else {*

*button.text("No more posts").attr("disabled", "disabled");*

*}*

*},*

*});*

*});*

*});*

*implementation*

*<?php*

*/\* Template Name: postDesign Page \*/*

*get\_header();*

*?>*

*<section>*

*<div class="container">*

*<div class="search-section-holder">*

*<div class="search-params">*

*<div class="search-param-up">*

*<input type="text" placeholder="Search By Name" id="search-by-name" />*

*<select name="postTag" id="postTag">*

*<option value="">Select Tag</option>*

*<?php*

*// Fetch all tags*

*$tags = get\_tags();*

*if ($tags) {*

*foreach ($tags as $tag) {*

*echo '<option value="' . $tag->term\_id . '">' . $tag->name . '</option>';*

*}*

*} else {*

*echo '<option value="">No tags available</option>';*

*}*

*?>*

*</select>*

*<select name="order" id="order">*

*<option value="asc">Ascending</option>*

*<option value="desc">Descending</option>*

*</select>*

*<select name="category" id="category">*

*<option value="">Select Category</option>*

*<?php*

*// Fetch categories*

*$categories = get\_categories(array(*

*'orderby' => 'name',*

*'order'   => 'ASC',*

*));*

*// Loop through categories and output them as <option> elements*

*foreach ($categories as $category) {*

*echo '<option value="' . esc\_attr($category->term\_id) . '">' . esc\_html($category->name) . '</option>';*

*}*

*?>*

*</select>*

*</div>*

*<button id="filter-button">Filter</button>*

*</div>*

*<div class="search-results-holder">*

*<div class="search-results" id="post-container">*

*<?php*

*// Initial load of 4 posts*

*$args = array(*

*'post\_type' => 'post',*

*'posts\_per\_page' => 4,*

*'order' => 'desc', // Default order*

*'paged' => 1,*

*);*

*$query = new WP\_Query($args);*

*if ($query->have\_posts()) {*

*while ($query->have\_posts()) {*

*$query->the\_post();*

*?>*

*<div class="search-results-card">*

*<figure>*

*<?php*

*if (has\_post\_thumbnail()) {*

*the\_post\_thumbnail('medium'); // Display the featured image*

*} else {*

*echo '<img src="' . get\_template\_directory\_uri() . '/assets/assets/cat.jpeg" alt="" />';*

*}*

*?>*

*</figure>*

*<h2><a href="<?php the\_permalink(); ?>"><?php the\_title(); ?></a></h2>*

*<span><?php the\_excerpt(); ?></span>*

*</div>*

*<?php*

*}*

*wp\_reset\_postdata();*

*} else {*

*echo 'No posts found';*

*}*

*?>*

*</div>*

*<button id="load-more" data-page="1">Load more</button>*

*</div>*

*</div>*

*</div>*

*</section>*

*<?php*

*get\_footer();*

*?>*