<?php

/\*

Plugin Name: Grow Light Calculator

Description: Simple grow light calculator for gardeners. Provides recommended light hours and LED wattage based on plant type and grow space.

Version: 1.0

Author: Your Name

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// Register shortcode [grow\_light\_calculator]

function grow\_light\_calculator\_shortcode() {

ob\_start();

?>

<div class="grow-light-calculator">

<h3>🌱 Grow Light Calculator</h3>

<form method="post">

<label for="plant\_type">Select Plant Type:</label><br>

<select name="plant\_type" id="plant\_type" required>

<option value="">--Choose--</option>

<option value="leafy">Leafy Greens</option>

<option value="fruiting">Fruiting Plants</option>

<option value="flowers">Flowers</option>

</select>

<br><br>

<label for="space">Grow Space Size (sq ft):</label><br>

<input type="number" name="space" id="space" min="1" required>

<br><br>

<input type="submit" name="glc\_submit" value="Calculate" />

</form>

<?php

if (isset($\_POST['glc\_submit'])) {

$plant\_type = sanitize\_text\_field($\_POST['plant\_type']);

$space = intval($\_POST['space']);

// Lookup table for plant types

$light\_requirements = array(

'leafy' => array('hours' => '12–14 hrs', 'watt\_per\_sqft' => 20),

'fruiting'=> array('hours' => '14–16 hrs', 'watt\_per\_sqft' => 30),

'flowers' => array('hours' => '12–16 hrs', 'watt\_per\_sqft' => 25),

);

if (array\_key\_exists($plant\_type, $light\_requirements)) {

$hours = $light\_requirements[$plant\_type]['hours'];

$watt\_per\_sqft = $light\_requirements[$plant\_type]['watt\_per\_sqft'];

$total\_wattage = $watt\_per\_sqft \* $space;

echo "<div class='glc-result' style='margin-top:15px; padding:10px; border:1px solid #ccc; background:#f9f9f9;'>";

echo "<strong>Results:</strong><br>";

echo "💡 Recommended Daily Light: <b>$hours</b><br>";

echo "⚡ Estimated LED Wattage Needed: <b>{$total\_wattage}W</b> (for {$space} sq ft)";

echo "</div>";

} else {

echo "<p style='color:red;'>Invalid plant type selected.</p>";

}

}

?>

</div>

<?php

return ob\_get\_clean();

}

add\_shortcode('grow\_light\_calculator', 'grow\_light\_calculator\_shortcode');