

index.html

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{% extends "base.html" %}
{% block content %}
<!-- ===== MAIN DASHBOARD CONTAINER ===== -->
<div style="display: flex; flex-direction: column; gap: 36px">
  <!-- Header Section -->
  <div style="display: flex; justify-content: space-between; align-items: center;">
    <!-- Title and subtitle on the left -->
    <div>
      <h1 style="margin: 0; color: #63a4ff; letter-spacing: 1px; font-size: 1.8rem;">
        Educational CVE Analysis Tool
      </h1>
      <div style="color: #a9add1; margin-top: 4px; font-size: 1.07rem;">
        Dashboard & Analytics
      </div>
    </div>
    <!-- Search + filtering (severity, year, month) -->
    <form style="display: flex; gap: 18px;" method="get" action="{{ url_for('index') }}">
      <input type="text" name="q" value="{{ search_query or '' }}"
        placeholder="🔍 Search CVEs"
        style="padding: 9px; font-size: 1rem; background: #222d44; color: #cdd7f7; border: none; border-radius: 7px;">
      <select name="severity"
        style="background: #222d44; color: #cdd7f7; padding: 9px; border: none; border-radius: 7px;">
        <option value="" {% if not severity_filter %}selected{% endif %}>All Severities</option>
        <option value="CRITICAL" {% if severity_filter == 'CRITICAL' %}selected{% endif %}>Critical</option>
        <option value="HIGH" {% if severity_filter == 'HIGH' %}selected{% endif %}>High</option>
        <option value="MEDIUM" {% if severity_filter == 'MEDIUM' %}selected{% endif %}>Medium</option>
        <option value="LOW" {% if severity_filter == 'LOW' %}selected{% endif %}>Low</option>
      </select>
      <select name="year">
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style="background:#222d44;color:#cdd7f7;padding:9px;border:none;border-
radius:7px;">
    <option value="" {% if not year_filter %}selected{% endif
%}>All Years</option>
    {% for y in available_years %}
    <option value="{{ y }}" {% if year_filter == y %}selected{%
endif %}>
        {{ y }}</option>
    {% endfor %}
</select>
<select name="month"

style="background:#222d44;color:#cdd7f7;padding:9px;border:none;border-
radius:7px;">
    <option value="" {% if not month_filter %}selected{% endif
%}>All Months</option>
    {% for m in available_months %}
    <option value="{{ m }}" {% if month_filter == m %}selected{%
endif %}>
        {{ "%02d"|format(m) }}</option>
    {% endfor %}
</select>
<button type="submit"
    style="background:#63a4ff;color:white;border:none;padding:10px
18px;border-radius:7px;font-weight:700;">
    Filter</button>
</form>
</div>
<!-- Special dash note (if applicable):
    e.g. why result set is limited -->
{% if note_text %}
<div style="font-size: 0.85em; color: #a9adc1; margin-bottom: 12px; font-
style: italic;">
    {{ note_text }}
</div>
{% endif %}
<!-- First Row -->
<div style="display: flex; gap: 25px;">
    <!-- CVE Trends Daily SparkLine Card -->
<div class="trend-sevi-blocks" style="display: flex; flex-direction:column;
justify-content: center; background:#1a2236; border-radius:18px; padding:20px;
width:380px; height: 110px;">
<div style="font-weight:700; color:#63a4ff; margin-bottom:8px; font-size:
1.02rem; letter-spacing:0.15px; text-align:left;">
CVE Trends (Last 30 days)
    </div>

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        <canvas id="dailyTrendChart" height="70"></canvas>
    </div>
    <!-- Severity Cards -->
    <div style="display: grid; grid-template-columns: repeat(4, 1fr);
gap:15px; flex: 1; align-items:stretch;">
        <div class="severity-card" data-severity="CRITICAL"
style="background:#1a2236; cursor:pointer;border-radius:18px;
padding:20px;display:flex;flex-direction:column;align-items:center;justify-
content:center;transition:box-shadow 0.2s;">
            <div style="font-size:2.2rem;font-weight:800;color:#f47174;">
                {{ metrics.CRITICAL }}</div>
            <div style="color:#fff;margin-top:7px;font-size:0.95em;font-
weight:600;">Critical</div>
        </div>
        <div class="severity-card" data-severity="HIGH"
style="background:#1a2236;cursor:pointer;border-
radius:18px;padding:20px;display:flex;flex-direction:column;align-
items:center;justify-content:center;transition:box-shadow 0.2s;">
            <div style="font-size:2.2rem;font-weight:800;color:#fca311;">
                {{ metrics.HIGH }}</div>
            <div style="color:#fff;margin-top:7px;font-size:0.95em;font-
weight:600;">High</div>
        </div>
        <div class="severity-card" data-severity="MEDIUM"
style="background:#1a2236;cursor:pointer;border-
radius:18px;padding:20px;display:flex;flex-direction:column;align-
items:center;justify-content:center;transition:box-shadow 0.2s;">
            <div style="font-size:2.2rem;font-weight:800;color:#3b8ded;">
                {{ metrics.MEDIUM }}</div>
            <div style="color:#fff;margin-top:7px;font-size:0.95em;font-
weight:600;">Medium</div>
        </div>
        <div class="severity-card" data-severity="LOW"
style="background:#1a2236;cursor:pointer;border-
radius:18px;padding:20px;display:flex;flex-direction:column;align-
items:center;justify-content:center;transition:box-shadow 0.2s;">
            <div style="font-size:2.2rem;font-weight:800;color:#42d392;">
                {{ metrics.LOW }}</div>
            <div style="color:#fff;margin-top:7px;font-size:0.95em;font-
weight:600;">Low</div>
        </div>
    </div>
    <!-- Second Row -->
    <div style="display: flex; gap: 25px; align-items: stretch;">
        <!-- Severity Distribution -->

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        <section style="background:#1a2236; border-radius:14px; padding:10px
30px 20px 30px; flex:0.95; display:flex; flex-direction:row; align-
items:center; justify-content:center; min-height:270px;">
            <div style="display:flex; flex-direction:column; justify-
content:center; height:150px; min-width:280px;">
                <div style="font-weight:700; color:#63a4ff; margin-
bottom:15px; font-size: 1.02rem; letter-spacing:0.15px; text-align:left;
width:100%;">
                    Severity Distribution
                </div>
                <div style="position:relative; width:230px; height:230px; min-
width:230px; display: flex; align-items: center; justify-content: center;">
                    <canvas id="severityPie" width="230" height="230">
</canvas>

                    <!-- Center label in pie chart -->
                    <div
style="position:absolute;top:50%;left:50%;transform:translate(-50%,-50%);color
:#e3e7f2;text-align:center;pointer-events:none;width:110px;z-index:2;">
                        <span style="font-size:1.0rem;font-weight:500;line-
height:1;">Total CVE's</span>
                        <br>
                        <span style="font-size:1.2rem;font-weight:500;letter-
spacing: 1px;">{{ total_cves }}</span>
                    </div>
                </div>
                <!-- Manual legend for pie, with color boxes and percent values --
>

                <div style="display:flex; flex-direction:column; justify-
content:center; align-items:flex-start; margin-left: 5px; height:150px; min-
width:125px; position: relative; top:32px;">
                    <div style="display:flex;align-items:left;gap:8px;font-
size:1.06em; margin-bottom:20px;">
                        <span style="display:inline-
block;width:18px;height:18px;border-radius:50%;background:#f55855;"></span>
                        <span style="color:#e3e7f2;min-
width:67px;">Critical</span>
                        <span style="color:#e3e7f2; font-weight:500;">{{
severity_percentage.CRITICAL }} %</span>
                    </div>
                    <div style="display:flex;align-items:left;gap:8px;font-
size:1.06em; margin-bottom:20px;">
                        <span style="display:inline-
block;width:18px;height:18px;border-radius:50%;background:#f8a541;"></span>
                        <span style="color:#e3e7f2;min-width:67px;">High</span>
                        <span style="color:#e3e7f2; font-weight:500;">{{

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severity_percentage.HIGH }} %</span>
    </div>
    <div style="display:flex;align-items:left;gap:8px;font-
size:1.06em; margin-bottom:20px;">
        <span style="display:inline-
block;width:18px;height:18px;border-radius:50%;background:#3b8ded;"></span>
        <span style="color:#e3e7f2;min-width:67px;">Medium</span>
        <span style="color:#e3e7f2; font-weight:500;">{{
severity_percentage.MEDIUM }} %</span>
    </div>
    <div style="display:flex;align-items:left;gap:8px;font-
size:1.06em;">
        <span style="display:inline-
block;width:18px;height:18px;border-radius:50%;background:#42d392;"></span>
        <span style="color:#e3e7f2;min-width:67px;">Low</span>
        <span style="color:#e3e7f2; font-weight:500;">{{
severity_percentage.LOW }} %</span>
    </div>
</div>
</section>
<!-- Vulnerabilities Over Time -->
<section style="background:#1a2236; border-radius:14px; padding:30px
30px 10px 30px; flex:2; display: flex; flex-direction:column; min-width:
350px; min-height:250px; height: 300px;">
    <div style="font-weight:700; color:#63a4ff; margin-bottom:8px;
font-size: 1.02rem; letter-spacing:0.15px; text-align:left;">
        Vulnerabilities Over Time
    </div>
    <div style="position: relative; height:250px;">
        <canvas id="timelineChart"></canvas>
    </div>
</section>
</div>
<!-- Third Row: Vendor Risk Analysis ONLY -->
<div style="display: flex; gap: 25px; align-items: stretch;">
    <section style="background:#1a2236; border-radius:14px; padding:30px;
flex:1; min-height:430px;">
        <div style="font-weight:700; color:#63a4ff; margin-bottom:8px;
font-size:1.02rem; letter-spacing:0.15px; text-align:left;">
            Vendor Risk Analysis
        </div>
        <div style="margin-bottom:12px; display:flex; gap:16px; flex-
wrap:wrap; align-items:center;">
            <label>
                <select id="radarCweCount" style="padding:5px 12px;
border-radius:7px; border:1px solid #263159; background:#222d44;

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color:#cdd7f7;">
        <option value="5">Top 5 CWEs</option>
        <option value="10" selected>Top 10 CWEs</option>
    </select>
</label>
<label style="margin-left:8px;">
    <input type="checkbox" id="radarWeighted" style="vertical-
align:middle;">
        <span style="color:#e2e8f0; font-size:0.99em;">Weight by
Severity</span>
    </label>
</div>
<div style="display: flex;">
    <div style="position: relative; height:340px; margin-
bottom:8px; width:60%;">
        <canvas id="vendorRiskChart" width="400" height="320">
</canvas>
    </div>
    <!-- Vendor Risk Analysis Legend Panel with Enhancements -->
    <div id="radarReadout"
        style="height:340px; padding:18px 16px 8px 26px;
display:block; color:#afc1ff; font-size:0.95em; min-width:256px; width:50%;">
        <div style="background:#232b45; border-radius:12px;
padding:18px 20px 20px 20px; color:#cdd7ff; margin-left:6px;" aria-
labelledby="legendTitle" role="region" tabindex="0">
            <div style="display:flex;align-items:center;gap:8px;">
                <span id="legendTitle" style="font-
size:1.08em;font-weight:700;color:#63a4ff;">
                    <svg id="legendInfoIcon" tabindex="0" aria-
label="More info" width="20" height="20" viewBox="0 0 20 20"
                        style="cursor:pointer;margin-
right:7px;vertical-align:-4px;"><circle cx="10" cy="10" r="9" fill="#3799f7"/>
<text x="10" y="14" text-anchor="middle" font-size="13" font-weight="700"
fill="#fff">?</text></svg>
                    How to read this chart?
                </span>
            </div>
            <ul style="margin:14px 0 0 18px; color:#afc1ff; font-
size:0.98em;list-style:none;">
                <li style="margin-bottom:9px;">
                    <span style="font-family:sans-serif;font-
size:1em;margin-right:8px;vertical-align:-1px;">📊</span>
                    Each axis is a <span
style="color:#3799f7;font-weight:600;">CATEGORY</span>.
                </li>
                <li style="margin-bottom:9px;">

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        <span style="font-family:sans-serif;font-size:1em;margin-right:8px;vertical-align:-1px;">●</span>
        The blue area <span style="color:#63a4ff;font-weight:700;">shows concentration of vulnerabilities</span> of the the type!
    </li>
    <li style="margin-bottom:9px;">
        <span style="font-family:sans-serif;font-size:1em;margin-right:8px;vertical-align:-1px;">■</span>
        <span style="color:#fca311;font-weight:700;">Click</span> on any spike for details or filtering.
    </li>
    <li style="margin-bottom:9px;">
        <span style="font-family:sans-serif;font-size:1em;margin-right:8px;vertical-align:-1px;">▲</span>
        <span style="color:#f55855;font-weight:700;">Long spikes highlight your <span style="color:#f55855;">top risk areas</span>.</span>
    </li>
</ul>
<div style="margin-top:16px;">
    <a href="{{ url_for('learn_topic', topic='what-is-cwe') }}" style="color:#63a4ff;font-weight:600;text-decoration:underline;margin-right:14px;">What is a CWE?</a>
    <a href="{{ url_for('learn') }}" style="color:#63a4ff;font-weight:600;text-decoration:underline;margin-right:14px;">See all CWE categories</a>
    <a href="{{ url_for('learn_topic', topic='secure-coding') }}" style="color:#42d392;font-weight:600;text-decoration:underline;">CWE mitigation tips</a>
</div>
<div id="legendBestPractice" style="margin-top:18px;background:#1a2236;padding:12px 13px;border-radius:7px;color:#eaf4fb;font-size:0.98em;">
    <span style="font-weight:700;color:#fca311;">Best Practice:</span> Review CWE mitigations, schedule fixes for top risk types, and prioritize high-frequency weaknesses first.
</div>
<div id="legendInfoPopover" style="display:none;position:absolute;top:55px;right:-5px;background:#101828;color:#eaf4fb;border-radius:8px;width:258px;padding:18px;box-shadow:0 4px 16px #0002;z-index:14;" aria-live="assertive" role="dialog">
    <div style="font-weight:700;color:#63a4ff;margin-bottom:7px;">Radar Chart Help</div>
    <div style="font-size:1em;color:#e2e8f0;line-height:1.5;">

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Radar charts visualize concentration of

vulnerabilities by category. Spikes show areas needing attention. Click spikes for definitions and recommended mitigations. For each CWE, follow 'Learn more' for full guidance.

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        </div>
    </div>
</div>
</div>
</div>
</section>
</div>
<script>
    window.timelineData = {{ timeline_data_years | tojson }};
    window.timelineDataDaily = {{ timeline_data_days | tojson }};
    window.severityStats = {{ severity_stats | tojson }};
    window.cweRadar = {{ cwe_radar | tojson }};
    window.cweRadarAll = {{ cwe_radar_all | tojson }};
    window.cweRadarWeighted = {{ cwe_radar_weighted | tojson }};
    window.cweRadarDescriptions = {{ cwe_radar_descriptions | tojson }};
    window.cweMitigations = {};
</script>
<script src="{{ url_for('static', filename='js/dashboard.js') }}">
</script>
</div>
{% endblock %}
```