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// app-controller.js - Main application coordinator
import AuthManager from '/static/js/auth.js';
import NiceClassManager from '/static/js/nice-classes.js';
import SearchManager from '/static/js/search.js';
import ResultsManager from '/static/js/results.js';
import QuestionnaireManager from '/static/js/questionnaire.js';

export default class TrademarkApp {
  constructor() {
    this.authManager = new AuthManager();
    this.niceClassManager = new NiceClassManager();
    this.searchManager = new SearchManager(this.authManager, this.niceClassManager);
    this.resultsManager = new ResultsManager(this.authManager, this);
    this.questionnaireManager = new QuestionnaireManager(this.niceClassManager);
    // ANNOTATION: New property to store the search ID for common law downloads.
    this.currentCommonLawSearchId = null;
  }

  async initialize() {
    console.log('Initializing Enhanced Trademark Search App');
    this.setupEventHandlers();
    if (this.authManager.loadStoredAuth()) {
      await this.showMainApp();
    } else {
      this.showLoginPanel();
    }
    console.log('App initialization complete');
  }

  setupEventHandlers() {
    document.getElementById('loginForm')?.addEventListener('submit', (e) => {
      e.preventDefault(); this.handleLogin();
    });
    document.getElementById('logoutButton')?.addEventListener('click', () => {
      this.authManager.logout(); this.showLoginPanel();
    });
    this.searchManager.onSearchComplete = (results, mode) => {
      this.resultsManager.displayResults(results, mode);
    };
    document.getElementById('businessContextButton')?.addEventListener('click', () => this
    document.getElementById('closeQuestionnaireBtn')?.addEventListener('click', () => this
  }

  async performSelectionBasedInvestigation(selectedResults) {
    const button = document.getElementById('start-common-law-search');
    if (!button) return;
    const originalText = button.textContent;
    button.textContent = 'Investigating...';
    button.disabled = true;
    try {
      console.log('--- Debugging Common Law Request ---');
      console.log('Selected Marks:', selectedResults);
      console.log('Search ID:', this.resultsManager.currentSearchId);
    }
  }
}

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console.log('Questionnaire:', this.questionnaireManager.questionnaireResponses);

/*
 * ANNOTATION - SANITIZATION FIX:
 * To prevent future errors from bad data (like unescaped quotes in an owner's name
 * scraped from the USPTO), we will now sanitize the 'selected_marks' array.
 * This ensures that each object is clean and serializable before being sent.
 * We create a new, sanitized array to be used in the request body.
 */
const sanitizedSelectedMarks = selectedResults.map(mark => ({
  mark_identification: String(mark.mark_identification || '').trim(),
  owner: String(mark.owner || '').trim(),
  serial_number: String(mark.serial_number || '').trim()
}));

const requestBody = {
  selected_marks: sanitizedSelectedMarks, // Use the sanitized array
  search_id: this.resultsManager.currentSearchId,
  questionnaire_responses: this.questionnaireManager.questionnaireResponses
};

// ANNOTATION: This log will now show the final, clean object being sent.
console.log('Final Request Body:', requestBody);

const response = await fetch('/api/common-law/investigate', {
  method: 'POST',
  headers: this.authManager.getAuthHeaders(),
  body: JSON.stringify(requestBody)
});

const data = await response.json();

if (response.ok && data.success) {
  this.currentCommonLawSearchId = data.search_id;
  this.displayCommonLawResults(data.investigation_results, data.overall_risk_sum
} else {
  throw new Error(data.detail || 'Investigation failed');
}
} catch (error) {
  this.showError('Common law investigation failed: ' + error.message);
} finally {
  button.textContent = originalText;
  button.disabled = false; // Re-enable the button in all cases
}
}

displayCommonLawResults(resultsByMark) {
  const container = document.getElementById('commonLawResultsContainer');
  if (!container) return;

  // Store results on the instance for the download function
  this.lastCommonLawResults = resultsByMark;

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let html = '<h3 class="results-header">Common Law Investigation Report</h3>';

html += `<div class="form-actions"><button id="downloadCommonLawBtn" class="btn btn-se

if (!resultsByMark || Object.keys(resultsByMark).length === 0) {
    html += '<p>No common law findings for the selected owners.</p>';
} else {
    for (const [mark, owners] of Object.entries(resultsByMark)) {
        html += `<div class="mark-group"><h4>Mark: "${mark}"</h4>`;
        for (const [owner, data] of Object.entries(owners)) {
            html += `<div class="owner-group"><h5>Owner: ${owner}</h5>`;

            // ANNOTATION: This logic now displays the raw findings and summaries.
            if (data.common_law_findings && data.common_law_findings.length > 0) {
                html += `<ul class="findings-list">`;
                data.common_law_findings.forEach(finding => {
                    html += `<li>`;
                    html += `<strong>${finding.source_type.replace('_', ' ')}:</strong>`;
                    html += `<em>${finding.summary || finding.finding}</em>`;
                    if (finding.url) {
                        html += ` <a href="${finding.url}" target="_blank" rel="noopener
                    }
                    if (finding.mark_found_on_site) {
                        html += ` <span class="mark-found-pill">Mark Found</span>`;
                    }
                    html += `</li>`;
                });
                html += `</ul>`;
            } else {
                html += `<p class="no-findings">No specific common law findings for th
            }
            html += `</div>`;
        }
        html += `</div>`;
    }
}

container.innerHTML = html;
container.style.display = 'block';
container.scrollIntoView({ behavior: 'smooth' });

document.getElementById('downloadCommonLawBtn')?.addEventListener('click', () => this.
}

// ANNOTATION: The function now correctly sends a GET request with the search_id.
async downloadCommonLawReport() {
    if (!this.currentCommonLawSearchId) {
        alert('No common law results to download.');
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const response = await fetch(`/api/common-law/download?search_id=${this.currentCom
    method: 'GET',
    headers: this.authManager.getAuthHeaders()
});

if (!response.ok) throw new Error('Download failed.');
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const blob = await response.blob();
const disposition = response.headers.get('Content-Disposition');
let filename = "common_law_report.txt";
if (disposition && disposition.indexOf('attachment') !== -1) {
    const matches = /filename[^\s;]*=((['"]).*?\2|[^;\n]*)/.exec(disposition);
    if (matches !== null && matches[1]) filename = matches[1].replace(/['"]/g, '');
}

const url = window.URL.createObjectURL(blob);
const a = document.createElement('a');
a.style.display = 'none';
a.href = url;
a.download = filename;
document.body.appendChild(a);
a.click();
window.URL.revokeObjectURL(url);
a.remove();

} catch (error) {
    this.showError('Could not download common law report: ' + error.message);
}
}

async handleLogin() {
    const username = document.getElementById('loginUsername').value;
    const password = document.getElementById('loginPassword').value;
    const button = document.getElementById('loginButton');
    if (!username || !password) { this.showError('Please enter both username and password')

    const originalText = button.textContent;
    try {
        button.textContent = 'Signing in...';
        button.disabled = true;
        const result = await this.authManager.login(username, password);
        if (result.success) {
            await this.showMainApp();
        } else {
            this.showError(result.error);
        }
    } catch (error) {
        this.showError('Login failed: ' + error.message);
    } finally {
        button.textContent = originalText;
        button.disabled = false;
    }
}
}

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async showMainApp() {
  document.getElementById('loginPanel')?.classList.add('hidden');
  document.getElementById('mainApp')?.classList.remove('hidden');
  const userDisplay = document.getElementById('userDisplay');
  const usernameEl = document.getElementById('username');
  if (userDisplay && usernameEl && this.authManager.currentUser) {
    usernameEl.textContent = this.authManager.currentUser.username;
    userDisplay.classList.remove('hidden');
  }
  // CRITICAL FIX: Initialize and Load NICE class data AFTER the main app is shown.
  this.niceClassManager.initialize();
  await this.niceClassManager.loadFromAPI();
  // Initialize other components that depend on the main app being visible.
  this.searchManager.initialize();
  await this.questionnaireManager.initialize();
}

showLoginPanel() {
  document.getElementById('loginPanel')?.classList.remove('hidden');
  document.getElementById('mainApp')?.classList.add('hidden');
  document.getElementById('userDisplay')?.classList.add('hidden');
}

showError(message) {
  console.error('App error:', message);
  alert(message);
}

}

document.addEventListener('DOMContentLoaded', () => {
  const app = new TrademarkApp();
  app.initialize();
});

```