

```
<!DOCTYPE html>
<html lang="pl">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Genealog Indexer v6.0 - Field Entry Mode</title>
  <script
src="https://openseadragon.github.io/openseadragon/openseadragon.min.js"></script>
  <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">

  <style>
    /* ===== RESET & ZMIENNE ===== */
    :root {
      --primary: #0078d4;
      --success: #10b981;
      --warning: #ffe66d;
      --danger: #c42b1c;
      --bg-dark: #0a0a0a;
      --bg-light: #1a1a1a;
      --bg-lighter: #252525;
      --border: #2a2a2a;
      --text-primary: #ddd;
      --text-secondary: #888;
    }

    * {
      margin: 0;
      padding: 0;
      box-sizing: border-box;
    }

    html, body {
      width: 100%;
      height: 100%;
      font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', sans-serif;
      background-color: var(--bg-dark);
      color: var(--text-primary);
      overflow: hidden;
    }

    #app {
      display: flex;
      flex-direction: column;
      height: 100vh;
    }

    /* ===== TOOLBAR ===== */
```

```
.toolbar {
  background: linear-gradient(180deg, #1a1a1a 0%, #151515 100%);
  border-bottom: 1px solid var(--border);
  padding: 8px 12px;
  display: flex;
  align-items: center;
  gap: 8px;
  min-height: 44px;
  box-shadow: 0 2px 8px rgba(0,0,0,0.3);
  z-index: 100;
  flex-wrap: wrap;
}
```

```
.toolbar-title {
  font-size: 12px;
  color: var(--primary);
  font-weight: 600;
  text-transform: uppercase;
  letter-spacing: 0.5px;
  margin-right: auto;
}
```

```
.toolbar-btn {
  background: var(--bg-lighter);
  border: 1px solid var(--border);
  color: var(--text-secondary);
  padding: 6px 12px;
  border-radius: 4px;
  cursor: pointer;
  font-size: 11px;
  display: flex;
  align-items: center;
  gap: 6px;
  transition: all 0.15s ease;
  white-space: nowrap;
}
```

```
.toolbar-btn:hover {
  background: #2d2d2d;
  border-color: var(--primary);
  color: var(--primary);
}
```

```
.toolbar-btn.active {
  background: var(--primary);
  border-color: var(--primary);
  color: white;
  box-shadow: 0 0 12px rgba(0,120,212,0.4);
}
```

```

}

.toolbar-sep {
  width: 1px;
  height: 20px;
  background: var(--border);
  margin: 0 4px;
}

/* ===== MAIN CONTENT ===== */
.main-content {
  flex: 1;
  display: flex;
  gap: 0;
  overflow: hidden;
}

/* ===== VIEWER PANEL ===== */
.viewer-panel {
  flex: 1;
  background: #000;
  position: relative;
  display: flex;
  flex-direction: column;
  overflow: hidden;
}

.viewer-container {
  flex: 1;
  position: relative;
  overflow: hidden;
}

#viewer {
  width: 100%;
  height: 100%;
  cursor: grab;
}

#viewer.grabbing {
  cursor: grabbing;
}

#drawingCanvas {
  position: absolute;
  top: 0;
  left: 0;
  cursor: crosshair;
}

```

```

    z-index: 50;
    pointer-events: none;
}

#drawingCanvas.active {
    pointer-events: auto;
}

/* ===== FIELD ENTRY OVERLAY ===== */
.field-entry-overlay {
    position: absolute;
    top: 12px;
    left: 12px;
    background: rgba(10, 10, 10, 0.96);
    border: 2px solid var(--primary);
    border-radius: 8px;
    padding: 18px;
    max-width: 420px;
    color: white;
    z-index: 101;
    font-family: inherit;
    box-shadow: 0 12px 40px rgba(0, 0, 0, 0.6);
}

.overlay-header {
    display: flex;
    justify-content: space-between;
    align-items: center;
    margin-bottom: 16px;
    font-weight: 600;
    font-size: 14px;
    color: var(--primary);
    border-bottom: 1px solid var(--border);
    padding-bottom: 10px;
}

.overlay-controls {
    display: flex;
    gap: 4px;
}

.overlay-controls button {
    padding: 4px 10px;
    background: var(--primary);
    border: none;
    color: white;
    border-radius: 3px;
    cursor: pointer;
}

```

```
    font-size: 12px;
    font-weight: 600;
}

.overlay-controls button:hover {
    background: #0060a0;
}

.overlay-field-current {
    margin: 12px 0;
}

.overlay-field-current label {
    display: block;
    font-size: 11px;
    color: var(--text-secondary);
    margin-bottom: 8px;
    text-transform: uppercase;
    font-weight: 600;
    letter-spacing: 0.3px;
}

.overlay-field-current input,
.overlay-field-current textarea {
    width: 100%;
    padding: 10px;
    background: var(--bg-dark);
    border: 1px solid var(--primary);
    border-radius: 4px;
    color: white;
    font-size: 13px;
    font-family: inherit;
    transition: all 0.2s ease;
}

.overlay-field-current input:focus,
.overlay-field-current textarea:focus {
    outline: none;
    border-color: var(--primary);
    box-shadow: 0 0 8px rgba(0, 120, 212, 0.3);
    background: var(--bg-light);
}

.overlay-field-actions {
    display: flex;
    gap: 6px;
    margin-top: 8px;
}
```

```

.overlay-field-actions button {
  padding: 6px 10px;
  font-size: 11px;
  cursor: pointer;
  background: var(--bg-lighter);
  border: 1px solid var(--border);
  color: var(--text-secondary);
  border-radius: 3px;
  transition: all 0.15s ease;
  flex: 1;
}

.overlay-field-actions button:hover {
  border-color: var(--primary);
  color: var(--primary);
}

.overlay-fields-preview {
  border-top: 1px solid var(--border);
  padding-top: 10px;
  margin-top: 12px;
  font-size: 11px;
  color: var(--text-secondary);
  max-height: 100px;
  overflow-y: auto;
}

.preview-field {
  padding: 6px 0;
  border-bottom: 1px solid rgba(42, 42, 42, 0.5);
}

.preview-field:last-child {
  border-bottom: none;
}

.overlay-actions {
  display: flex;
  gap: 6px;
  margin-top: 12px;
  border-top: 1px solid var(--border);
  padding-top: 10px;
}

.overlay-actions button {
  flex: 1;
  padding: 10px;
}

```

```

    background: var(--primary);
    border: none;
    color: white;
    border-radius: 4px;
    cursor: pointer;
    font-size: 11px;
    font-weight: 600;
    transition: all 0.15s ease;
}

.overlay-actions button:hover {
    background: #0060a0;
    transform: translateY(-1px);
}

/* ===== RIGHT PANEL ===== */
.right-panel {
    width: 360px;
    background: linear-gradient(180deg, #1a1a1a 0%, #151515 100%);
    border-left: 1px solid var(--border);
    display: flex;
    flex-direction: column;
    overflow: hidden;
    box-shadow: -4px 0 16px rgba(0,0,0,0.3);
}

.right-panel.collapsed {
    width: 0;
    border: none;
}

.panel-content {
    flex: 1;
    display: flex;
    flex-direction: column;
    overflow-y: auto;
}

.section-title {
    font-size: 10px;
    color: var(--text-secondary);
    font-weight: 600;
    text-transform: uppercase;
    letter-spacing: 0.5px;
    padding: 12px 12px 8px 12px;
}

/* ===== CONFIG SECTION ===== */

```

```
.config-section {
  padding: 12px;
  border-bottom: 1px solid var(--border);
}

.form-group {
  margin-bottom: 12px;
}

.form-group label {
  display: block;
  font-size: 10px;
  color: var(--text-secondary);
  margin-bottom: 5px;
  font-weight: 600;
  text-transform: uppercase;
  letter-spacing: 0.3px;
}

.form-group input,
.form-group select {
  width: 100%;
  padding: 8px 10px;
  background: var(--bg-dark);
  border: 1px solid var(--border);
  color: var(--text-primary);
  border-radius: 4px;
  font-size: 12px;
  font-family: inherit;
  transition: all 0.15s ease;
}

.form-group input:focus,
.form-group select:focus {
  border-color: var(--primary);
  outline: none;
  box-shadow: 0 0 0 3px rgba(0,120,212,0.1);
}

.form-group-inline {
  display: flex;
  gap: 8px;
}

.form-group-inline input {
  flex: 1;
}
```



```

.form-group-inline button {
  padding: 8px 16px;
  background: var(--success);
  color: white;
  border: none;
  border-radius: 4px;
  cursor: pointer;
  font-size: 11px;
  font-weight: 600;
  transition: all 0.15s ease;
  white-space: nowrap;
}

.form-group-inline button:hover {
  background: #0d6a0d;
  transform: translateY(-1px);
}

/* ===== ACT BUTTONS SECTION ===== */
.act-buttons-section {
  padding: 12px;
  border-bottom: 1px solid var(--border);
}

.act-buttons-grid {
  display: grid;
  grid-template-columns: repeat(3, 1fr);
  gap: 8px;
  margin: 10px 0;
}

.act-button {
  width: 100%;
  aspect-ratio: 1;
  border-radius: 6px;
  border: 2px solid var(--border);
  background: var(--bg-lighter);
  color: var(--text-secondary);
  font-weight: 600;
  cursor: pointer;
  position: relative;
  transition: all 0.2s ease;
  display: flex;
  align-items: center;
  justify-content: center;
  font-size: 16px;
}

```

```

.act-button:hover {
  border-color: var(--primary);
  transform: scale(1.05);
}

.act-button.empty {
  background: var(--bg-dark);
  color: #555;
}

.act-button.selected {
  background: var(--primary);
  border-color: var(--primary);
  color: white;
  box-shadow: 0 0 12px rgba(0, 120, 212, 0.6);
}

.act-button.has-roi {
  background: var(--success);
  border-color: var(--success);
  color: white;
  box-shadow: 0 0 12px rgba(16, 185, 129, 0.4);
}

.act-button-counter {
  position: absolute;
  bottom: 2px;
  right: 2px;
  background: rgba(0, 120, 212, 0.8);
  color: white;
  font-size: 7px;
  padding: 2px 4px;
  border-radius: 2px;
  font-weight: 600;
}

/* ===== ACT SETTINGS ===== */
.act-settings {
  background: var(--bg-dark);
  padding: 10px;
  border-radius: 4px;
  font-size: 11px;
}

.act-settings label {
  display: flex;
  align-items: center;
  gap: 6px;

```

```

    margin: 6px 0;
    color: var(--text-secondary);
    cursor: pointer;
    transition: color 0.15s ease;
}

.act-settings label:hover {
    color: var(--text-primary);
}

.act-settings input[type="checkbox"] {
    cursor: pointer;
    width: 14px;
    height: 14px;
}

/* ===== THUMBNAILS BAR ===== */
.thumbnails-bar {
    height: 100px;
    background: var(--bg-dark);
    border-top: 1px solid var(--border);
    display: flex;
    align-items: center;
    padding: 8px;
    gap: 8px;
    overflow-x: auto;
    overflow-y: hidden;
    transition: height 0.3s ease;
    box-shadow: 0 -2px 8px rgba(0,0,0,0.3);
}

.thumbnails-bar.collapsed {
    height: 0;
    padding: 0;
    border: none;
    overflow: hidden;
}

.thumbnail {
    width: 84px;
    height: 84px;
    border: 2px solid var(--border);
    border-radius: 4px;
    cursor: pointer;
    overflow: hidden;
    background: var(--bg-light);
    flex-shrink: 0;
    transition: all 0.2s ease;
}

```

```

    position: relative;
}

.thumbnail img {
    width: 100%;
    height: 100%;
    object-fit: cover;
}

.thumbnail:hover {
    border-color: var(--primary);
    transform: scale(1.05);
}

.thumbnail.active {
    border-color: var(--primary);
    box-shadow: 0 0 16px rgba(0,120,212,0.6);
}

.thumbnail-number {
    position: absolute;
    top: 2px;
    left: 2px;
    background: rgba(0,0,0,0.7);
    color: #fff;
    font-size: 10px;
    padding: 2px 5px;
    border-radius: 2px;
    font-weight: 600;
}

/* ===== NOTIFICATIONS ===== */
.notification {
    position: fixed;
    bottom: 24px;
    right: 24px;
    padding: 12px 20px;
    background: var(--primary);
    color: white;
    border-radius: 6px;
    font-size: 12px;
    font-weight: 500;
    z-index: 1000;
    animation: slideIn 0.3s ease;
    box-shadow: 0 4px 20px rgba(0,0,0,0.4);
}

.notification.success {

```

```

    background: var(--success);
}

.notification.error {
    background: var(--danger);
}

.notification.warning {
    background: var(--warning);
    color: black;
}

@keyframes slideIn {
    from {
        transform: translateX(400px);
        opacity: 0;
    }
    to {
        transform: translateX(0);
        opacity: 1;
    }
}

/* ===== SCROLLBAR ===== */
::-webkit-scrollbar {
    width: 8px;
    height: 8px;
}

::-webkit-scrollbar-track {
    background: var(--bg-dark);
}

::-webkit-scrollbar-thumb {
    background: var(--border);
    border-radius: 4px;
}

::-webkit-scrollbar-thumb:hover {
    background: #4a4a4a;
}

/* ===== MODAL ===== */
.modal {
    display: none;
    position: fixed;
    z-index: 1000;
    left: 0;

```

```
    top: 0;
    width: 100%;
    height: 100%;
    background: rgba(0, 0, 0, 0.7);
    animation: fadeIn 0.3s ease;
}
```

```
.modal.active {
    display: flex;
    align-items: center;
    justify-content: center;
}
```

```
.modal-content {
    background: var(--bg-light);
    padding: 24px;
    border-radius: 8px;
    border: 1px solid var(--border);
    max-width: 400px;
    width: 90%;
    color: var(--text-primary);
}
```

```
.modal-header {
    font-size: 16px;
    font-weight: 600;
    margin-bottom: 16px;
    color: var(--primary);
    border-bottom: 1px solid var(--border);
    padding-bottom: 12px;
}
```

```
.modal-body {
    margin: 16px 0;
    font-size: 13px;
    line-height: 1.6;
}
```

```
.modal-actions {
    display: flex;
    gap: 8px;
    justify-content: flex-end;
    margin-top: 20px;
    border-top: 1px solid var(--border);
    padding-top: 16px;
}
```

```
.modal-btn {
```

```

padding: 10px 20px;
border: none;
border-radius: 4px;
cursor: pointer;
font-size: 12px;
font-weight: 600;
transition: all 0.15s ease;
}

.modal-btn.primary {
  background: var(--primary);
  color: white;
}

.modal-btn.primary:hover {
  background: #0060a0;
}

.modal-btn.secondary {
  background: var(--bg-darker);
  color: var(--text-secondary);
  border: 1px solid var(--border);
}

.modal-btn.secondary:hover {
  border-color: var(--primary);
  color: var(--primary);
}

@keyframes fadeIn {
  from {
    opacity: 0;
  }
  to {
    opacity: 1;
  }
}

@media (max-width: 1024px) {
  .right-panel {
    width: 320px;
  }
}

@media (max-width: 768px) {
  .main-content {
    flex-direction: column;
  }
}

```

```

        .right-panel {
            width: 100%;
            max-height: 300px;
        }
        .field-entry-overlay {
            max-width: 95%;
        }
    }
</style>
</head>
<body>
    <div id="app">
        <!-- TOOLBAR -->
        <div class="toolbar">
            <span class="toolbar-title"><img alt="Genealog Indexer logo" data-bbox="405 328 428 342"/> Genealog Indexer v6.0</span>
            <button class="toolbar-btn" onclick="app.addImages()">
                <i class="fas fa-folder-open"></i> Dodaj obrazy
            </button>
            <div class="toolbar-sep"></div>
            <button class="toolbar-btn" id="actRoiBtn" onclick="app.toggleActROI()">
                <i class="fas fa-rectangle-landscape"></i> ACT ROI
            </button>
            <button class="toolbar-btn" id="fieldRoiBtn" onclick="app.toggleFieldROI()">
                <i class="fas fa-crop"></i> FIELD ROI
            </button>
            <div class="toolbar-sep"></div>
            <button class="toolbar-btn" onclick="app.rotateImage(90)">
                <i class="fas fa-undo"></i> Obrót
            </button>
            <button class="toolbar-btn" onclick="app.zoomReset()">
                <i class="fas fa-expand"></i> Reset
            </button>
            <div class="toolbar-sep"></div>
            <button class="toolbar-btn" onclick="app.exportData()">
                <i class="fas fa-download"></i> Eksport
            </button>
        </div>

        <!-- MAIN CONTENT -->
        <div class="main-content">
            <!-- VIEWER -->
            <div class="viewer-panel">
                <div class="viewer-container" id="viewerContainer">
                    <div id="viewer"></div>
                    <canvas id="drawingCanvas"></canvas>

                    <!-- FIELD ENTRY OVERLAY -->
                    <div id="fieldEntryOverlay" class="field-entry-overlay" style="display: none;">

```



```

        <div class="overlay-header">
            <span id="overlayTitle">AKT #1</span>
            <div class="overlay-controls">
                <button onclick="app.fieldNav.previousField()" title="Poprzednie
pole">←</button>
                <button onclick="app.fieldNav.nextField()" title="Następne
pole">→</button>
                <button onclick="app.fieldNav.completeEntry()" title="Zakończ
akt">✓ </button>
            </div>
        </div>

        <div class="overlay-field-current" id="overlayFieldCurrent">
            <!-- Dynamicznie generowane -->
        </div>

        <div class="overlay-fields-preview" id="overlayFieldsPreview">
            <!-- Preview następnych pól -->
        </div>

        <div class="overlay-actions">
            <button onclick="app.fieldNav.previousField()">← Wróć</button>
            <button onclick="app.fieldNav.skipFields()">Pomiń</button>
            <button onclick="app.fieldNav.completeEntry()">Gotowe</button>
        </div>
    </div>
</div>

<!-- RIGHT PANEL -->
<div class="right-panel" id="rightPanel">
    <div class="panel-content">
        <!-- CONFIG SECTION -->
        <div class="config-section">
            <div class="section-title">⚙️ Konfiguracja</div>
            <div class="form-group">
                <label>Parafia</label>
                <input type="text" id="parafialInput" value="Wiśniewa" />
            </div>
            <div class="form-group">
                <label>Rok</label>
                <input type="number" id="rokInput" value="1825" min="1600" max="2100"
/>
            </div>
            <div class="form-group">
                <label>Typ aktu</label>
                <select id="typAktuSelect">
                    <option value="birth">Urodzenia</option>

```

```

        <option value="marriage">Małżeństwa</option>
        <option value="death">Zgonu</option>
    </select>
</div>
<div class="form-group">
    <label>Liczba aktów na skanach</label>
    <div class="form-group-inline">
        <input type="number" id="actCountInput" value="1" min="1" max="20" />
        <button onclick="app.initActs()">Utwórz</button>
    </div>
</div>
</div>

<!-- ACT BUTTONS SECTION -->
<div class="act-buttons-section">
    <div class="section-title">🎯 Akty</div>
    <div class="act-buttons-grid" id="actButtonsGrid">
        <!-- Dynamicznie generowane -->
    </div>

    <div class="section-title" style="margin-top: 12px;">⚙️ Ustawienia</div>
    <div class="act-settings">
        <label>
            <input type="checkbox" id="autoZoomAct" checked>
            Auto-zoom do aktu
        </label>
        <label>
            <input type="checkbox" id="seqFields" checked>
            Pola sekwencyjnie
        </label>
        <label>
            <input type="checkbox" id="rememberType" checked>
            Zapamiętaj typ
        </label>
    </div>
</div>
</div>
</div>

<!-- THUMBNAILS BAR -->
<div class="thumbnails-bar collapsed" id="thumbsBar"></div>
</div>

<input type="file" id="fileInput" multiple accept="image/*" style="display: none;">

<script>
    // ===== APP OBJECT =====

```

```

const app = {
  images: [],
  currentImgIdx: 0,
  currentActIdx: null,
  currentFieldIdx: 0,

  viewer: null,
  actROIMode: false,
  fieldROIMode: false,

  drawingCanvas: null,
  drawingCtx: null,
  drawingROI: false,
  roiStartX: 0,
  roiStartY: 0,

  currentImage: {
    file: null,
    parafia: "Wiśniewa",
    rok: 1825,
    typ: "birth",
    acts: []
  },

  templates: {},

  settings: {
    autoZoomAct: true,
    seqFields: true,
    rememberType: true
  },

  // ===== FIELD NAVIGATION =====
  fieldNav: {
    previousField() {
      if (app.currentFieldIdx > 0) {
        app.fieldNav.saveField();
        app.currentFieldIdx--;
        app.renderFieldEntryOverlay();
      }
    },

    nextField() {
      app.fieldNav.saveField();
      const template = app.templates[app.currentImage.typ];
      if (app.currentFieldIdx < template.fields.length - 1) {
        app.currentFieldIdx++;
        app.renderFieldEntryOverlay();
      }
    }
  }
};

```

```

    } else {
      app.fieldNav.completeEntry();
    }
  },

  skipFields() {
    if (confirm('Pomiąć pozostałe pola w tym akcie?')) {
      app.fieldNav.completeEntry();
    }
  },

  completeEntry() {
    app.fieldNav.saveField();
    const act = app.currentImage.acts[app.currentActIdx];
    const template = app.templates[app.currentImage.typ];

    const filledCount = Object.keys(act.data).filter(k => act.data[k]).length;
    act.status = filledCount > 0 ? (filledCount === template.fields.length ? 'complete'
: 'partial') : 'empty';

    document.getElementById('fieldEntryOverlay').style.display = 'none';
    app.renderActButtons();
    app.saveToStorage();

    if (app.currentActIdx < app.currentImage.acts.length - 1) {
      const nextActNum = app.currentImage.acts[app.currentActIdx + 1].number;
      if (confirm(`Przejsć do aktu #${nextActNum}?`)) {
        app.selectAct(app.currentActIdx + 1);
      }
    } else {
      app.notify('✅ Ukończono wszystkie akty!', 'success');
    }
  },

  saveField() {
    const template = app.templates[app.currentImage.typ];
    const field = template.fields[app.currentFieldIdx];
    const input = document.getElementById('fieldInput');
    if (input && app.currentActIdx !== null) {
      const value = input.value.trim();
      if (value) {
        app.currentImage.acts[app.currentActIdx].data[field.id] = value;
      }
    }
  },

  drawROI(fieldId) {
    app.fieldROIMode = true;

```

```

        app.drawingCanvas.classList.add('active');
        app.notify(`📍 Zaznacz ROI dla pola: ${fieldId}`, 'warning');
    }
},

// ===== INITIALIZATION =====
init() {
    this.loadTemplates();
    this.initViewer();
    this.setupDrawingCanvas();
    this.setupEvents();
    this.loadFromStorage();
    this.notify('System gotowy', 'success');
},

loadTemplates() {
    this.templates = {
        birth: {
            id: "birth",
            name: "Akt Urodzenia",
            fields: [
                {id: "birth_date", label: "Data urodzenia", type: "date", required: true},
                {id: "child_first_name", label: "Imię dziecka", type: "text", required: true},
                {id: "child_last_name", label: "Nazwisko dziecka", type: "text", required:
true},
                {id: "birth_place", label: "Miejsce urodzenia", type: "text", required: false},
                {id: "father_first_name", label: "Imię ojca", type: "text", required: false},
                {id: "mother_first_name", label: "Imię matki", type: "text", required: false},
                {id: "notes", label: "Uwagi", type: "textarea", required: false}
            ]
        },
        marriage: {
            id: "marriage",
            name: "Akt Małżeństwa",
            fields: [
                {id: "groom_first_name", label: "Imię pana młodego", type: "text", required:
true},
                {id: "groom_last_name", label: "Nazwisko pana młodego", type: "text",
required: true},
                {id: "bride_first_name", label: "Imię panny młodej", type: "text", required:
true},
                {id: "bride_last_name", label: "Nazwisko panny młodej", type: "text",
required: true},
                {id: "marriage_date", label: "Data małżeństwa", type: "date", required:
false},
                {id: "marriage_place", label: "Miejsce małżeństwa", type: "text", required:
false},
                {id: "notes", label: "Uwagi", type: "textarea", required: false}
            ]
        }
    }
}

```

```

    ]
  },
  death: {
    id: "death",
    name: "Akt Zgonu",
    fields: [
      {id: "deceased_first_name", label: "Imię zmarłego", type: "text", required:
true},
      {id: "deceased_last_name", label: "Nazwisko zmarłego", type: "text",
required: true},
      {id: "death_date", label: "Data zgonu", type: "date", required: false},
      {id: "death_place", label: "Miejsce zgonu", type: "text", required: false},
      {id: "age", label: "Wiek", type: "number", required: false},
      {id: "notes", label: "Uwagi", type: "textarea", required: false}
    ]
  }
};
},

```

```

initViewer() {
  this.viewer = OpenSeadragon({
    id: 'viewer',
    prefixUrl: 'https://openseadragon.github.io/openseadragon/images/',
    minZoomLevel: 0.5,
    maxZoomLevel: 20,
  });
},

setupDrawingCanvas() {
  this.drawingCanvas = document.getElementById('drawingCanvas');
  this.drawingCtx = this.drawingCanvas.getContext('2d', { willReadFrequently: true
});

```

```

const container = document.getElementById('viewerContainer');
const resize = () => {
  this.drawingCanvas.width = container.offsetWidth;
  this.drawingCanvas.height = container.offsetHeight;
};
resize();
window.addEventListener('resize', resize);
},

```

```

setupEvents() {
  document.getElementById('fileInput').addEventListener('change', (e) => {
    this.handleFiles(e.target.files);
  });

  document.addEventListener('keydown', (e) => {

```

```

const overlay = document.getElementById('fieldEntryOverlay');
if (overlay.offsetParent === null) return;

if (e.key === 'Tab') {
  e.preventDefault();
  e.shiftKey ? this.fieldNav.previousField() : this.fieldNav.nextField();
} else if (e.key === 'Enter') {
  e.preventDefault();
  this.fieldNav.nextField();
} else if (e.key === 'Escape') {
  overlay.style.display = 'none';
}
});

// Drag & drop
const container = document.getElementById('viewerContainer');
container.addEventListener('dragover', (e) => {
  e.preventDefault();
  container.style.borderColor = 'var(--primary)';
});
container.addEventListener('dragleave', () => {
  container.style.borderColor = '';
});
container.addEventListener('drop', (e) => {
  e.preventDefault();
  container.style.borderColor = '';
  this.handleFiles(e.dataTransfer.files);
});
},

addImages() {
  document.getElementById('fileInput').click();
},

handleFiles(files) {
  const imageFiles = Array.from(files).filter(f => f.type.startsWith('image/'));
  if (imageFiles.length === 0) {
    this.notify('Nie znaleziono obrazów', 'error');
    return;
  }

  let loaded = 0;
  imageFiles.forEach(file => {
    const reader = new FileReader();
    reader.onload = (e) => {
      this.images.push({
        name: file.name,
        data: e.target.result
      });
    };
    reader.readAsDataURL(file);
  });
}

```

```

    });
    loaded++;
    this.renderThumbnails();
    if (this.images.length === 1) this.selectImage(0);
    if (loaded === imageFiles.length) {
        this.notify('✅ Wczytano ${imageFiles.length} obraz(y)', 'success');
    }
};
reader.readAsDataURL(file);
});
},

selectImage(idx) {
    if (idx < 0 || idx >= this.images.length) return;

    this.currentImageIdx = idx;
    this.currentImage.file = this.images[idx].name;
    this.currentImage.parafia = document.getElementById('parafiaInput').value;
    this.currentImage.rok = parseInt(document.getElementById('rokInput').value);
    this.currentImage.typ = document.getElementById('typAktuSelect').value;
    this.currentActIdx = null;
    this.currentFieldIdx = 0;

    if (this.viewer && this.images[idx]) {
        this.viewer.open({
            type: 'image',
            url: this.images[idx].data
        });
    }

    document.getElementById('fieldEntryOverlay').style.display = 'none';
    this.renderThumbnails();
    this.renderActButtons();
    this.saveToStorage();
},

renderThumbnails() {
    const bar = document.getElementById('thumbsBar');
    bar.innerHTML = "";
    this.images.forEach((img, i) => {
        const div = document.createElement('div');
        div.className = `thumbnail ${i === this.currentImageIdx ? 'active' : ''}`;
        div.onclick = () => this.selectImage(i);

        const num = document.createElement('div');
        num.className = 'thumbnail-number';
        num.textContent = i + 1;
    });
}

```



```

        const imgEl = document.createElement('img');
        imgEl.src = img.data;
        imgEl.alt = img.name;

        div.appendChild(num);
        div.appendChild(imgEl);
        bar.appendChild(div);
    });

    if (this.images.length > 0) {
        bar.classList.remove('collapsed');
    }
},

initActs() {
    const count = parseInt(document.getElementById('actCountInput').value) || 1;
    this.currentImage.acts = [];

    for (let i = 0; i < count; i++) {
        this.currentImage.acts.push({
            id: i,
            number: i + 1,
            actROI: null,
            data: {},
            fieldROIs: {},
            status: "empty"
        });
    }

    this.currentActIdx = null;
    this.currentFieldIdx = 0;
    this.renderActButtons();
    this.notify('✅ Utworzono ${count} aktów', 'success');
    this.saveToStorage();
},

selectAct(actIdx) {
    if (actIdx < 0 || actIdx >= this.currentImage.acts.length) return;

    this.currentActIdx = actIdx;
    this.currentFieldIdx = 0;
    const act = this.currentImage.acts[actIdx];
    act.status = act.status === 'empty' ? 'partial' : act.status;

    if (this.settings.autoZoomAct && act.actROI) {
        this.zoomToActROI(act.actROI);
    }
}

```

```

    this.renderActButtons();
    this.renderFieldEntryOverlay();
    document.getElementById('fieldEntryOverlay').style.display = 'block';
    this.saveToStorage();
  },

  renderActButtons() {
    const grid = document.getElementById('actButtonsGrid');
    grid.innerHTML = "";

    if (this.currentImage.acts.length === 0) {
      grid.innerHTML = '<p style="grid-column: 1/-1; text-align: center; color:
var(--text-secondary); padding: 20px;">Brak aktów. Ustaw liczbę i kliknij "Utwórz"</p>';
      return;
    }

    this.currentImage.acts.forEach((act, idx) => {
      const btn = document.createElement('button');
      btn.className = `act-button ${act.status}`;
      btn.textContent = act.number;
      btn.onclick = () => this.selectAct(idx);
      btn.title = `Akt #${act.number} - ${act.status}`;

      const counter = document.createElement('div');
      counter.className = 'act-button-counter';
      const template = this.templates[this.currentImage.typ];
      const filled = Object.keys(act.data).filter(k => act.data[k]).length;
      counter.textContent = `${filled}/${template.fields.length}`;
      btn.appendChild(counter);

      grid.appendChild(btn);
    });
  },

  renderFieldEntryOverlay() {
    if (this.currentActIdx === null) return;

    const act = this.currentImage.acts[this.currentActIdx];
    const template = this.templates[this.currentImage.typ];
    const field = template.fields[this.currentFieldIdx];

    document.getElementById('overlayTitle').textContent = `AKT #${act.number} -
${template.name}`;

    const currentFieldHtml = `
      <label>[${this.currentFieldIdx + 1}/${template.fields.length}]
      ${field.label}${field.required ? ' *' : ''}</label>

```

```

        <input type="text" id="fieldInput" value="${act.data[field.id] || ""}"
placeholder="Wpisz wartość lub TAB">
        <div class="overlay-field-actions">
            <button onclick="app.fieldNav.drawROI('${field.id}')"> 📍 ROI</button>
            <button onclick="app.fieldNav.clearField('${field.id}')">✕</button>
        </div>
    `;
    document.getElementById('overlayFieldCurrent').innerHTML = currentFieldHtml;

    let previewHtml = "";
    for (let i = this.currentFieldIdx + 1; i < Math.min(this.currentFieldIdx + 3,
template.fields.length); i++) {
        const nextField = template.fields[i];
        previewHtml += `<div class="preview-field">[${i + 1}] ${nextField.label}</div>`;
    }
    document.getElementById('overlayFieldsPreview').innerHTML = previewHtml;

    setTimeout(() => {
        const input = document.getElementById('fieldInput');
        if (input) input.focus();
    }, 100);
},

clearField(fieldId) {
    if (this.currentActIdx !== null) {
        delete this.currentImage.acts[this.currentActIdx].data[fieldId];
        this.renderFieldEntryOverlay();
        this.saveToStorage();
    }
},

zoomToActROI(roi) {
    if (!this.viewer || !this.viewer.world.getItemAt(0)) return;

    const item = this.viewer.world.getItemAt(0);
    const itemSize = item.getContentSize();
    const rect = new OpenSeadragon.Rect(
        roi.x * itemSize.x,
        roi.y * itemSize.y,
        roi.w * itemSize.x,
        roi.h * itemSize.y
    );
    const viewportRect = this.viewer.viewport.imageToViewportRectangle(rect);
    this.viewer.viewport.fitBounds(viewportRect, true);
},

toggleActROI() {
    this.actROIMode = !this.actROIMode;

```

```

document.getElementById('actRoiBtn').classList.toggle('active', this.actROIMode);
this.drawingCanvas.classList.toggle('active', this.actROIMode);

if (this.actROIMode) {
  this.notify('👉 Zaznaczaj granice aktów (rysuj prostokąty)', 'warning');
} else {
  this.notify('Wyjście z trybu ACT ROI', 'info');
}
},

toggleFieldROI() {
  this.fieldROIMode = !this.fieldROIMode;
  document.getElementById('fieldRoiBtn').classList.toggle('active',
this.fieldROIMode);
  this.drawingCanvas.classList.toggle('active', this.fieldROIMode);

  if (this.fieldROIMode) {
    this.notify('👉 Zaznaczaj pola formularza', 'warning');
  } else {
    this.notify('Wyjście z trybu FIELD ROI', 'info');
  }
},

rotateImage(degrees) {
  if (!this.viewer) return;
  const current = this.viewer.viewport.getRotation();
  this.viewer.viewport.setRotation((current + degrees + 360) % 360);
},

zoomReset() {
  if (this.viewer && this.viewer.world.getItemAt(0)) {
    this.viewer.viewport.fitBounds(this.viewer.world.getItemAt(0).getBounds());
  }
},

exportData() {
  if (this.images.length === 0 || this.currentImage.acts.length === 0) {
    this.notify('❌ Brak danych do eksportu', 'error');
    return;
  }

  const csv = this.convertToCSV();
  const json = JSON.stringify(this.currentImage, null, 2);

  this.downloadFile(csv, `genealog-${new Date().toISOString().split('T')[0]}.csv`,
'text/csv');
  this.downloadFile(json, `genealog-${new Date().toISOString().split('T')[0]}.json`,
'application/json');

```

```

    this.notify('✅ Eksportowano ${this.currentImage.acts.length} aktów', 'success');
  },

  convertToCSV() {
    let csv = 'Lp.,Akt nr,Plik,Parafia,Rok,Typ,Status\n';

    this.currentImage.acts.forEach((act, idx) => {
      const fields = Object.entries(act.data).map(([k, v]) => `${v}`).join(',');
      csv += `${idx +
1},${act.number},"${this.currentImage.file}","${this.currentImage.parafia}","${this.currentImage.rok},"${this.templates[this.currentImage.typ].name}","${act.status}"\n`;
    });

    return csv;
  },

  downloadFile(content, filename, mimetype) {
    const blob = new Blob([content], { type: mimetype });
    const link = document.createElement('a');
    link.href = URL.createObjectURL(blob);
    link.download = filename;
    link.click();
    URL.revokeObjectURL(link.href);
  },

  notify(message, type = 'info') {
    const div = document.createElement('div');
    div.className = `notification ${type}`;
    div.textContent = message;
    document.body.appendChild(div);
    setTimeout(() => div.remove(), 3000);
  },

  saveToStorage() {
    localStorage.setItem('genealog_data', JSON.stringify({
      images: this.images.map(img => ({ name: img.name, data: img.data })),
      currentImageIdx: this.currentImageIdx,
      currentImage: this.currentImage
    }));
  },

  loadFromStorage() {
    const stored = localStorage.getItem('genealog_data');
    if (stored) {
      try {
        const data = JSON.parse(stored);
        this.images = data.images || [];
      }
    }
  }
}

```

```
        this.currentImageIdx = data.currentImageIdx || 0;
        this.currentImage = data.currentImage || this.currentImage;
        this.renderThumbnails();
        if (this.images.length > 0) {
            this.selectImage(this.currentImageIdx);
        }
    } catch (e) {
        console.error('Błąd ładowania z localStorage:', e);
    }
}
}
};

// Initialize
document.addEventListener('DOMContentLoaded', () => {
    app.init();
});
</script>
</body>
</html>
```