

```
<!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"> 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: [],
    currentImageIdx: 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('Pominąć 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(`Przejść 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
            });
            loaded++;
            if (loaded === imageFiles.length) {
                this.notify(`Załadowano ${imageFiles.length} obrazów`, 'success');
            }
        };
        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('parafialInput').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>
```