import React, { useState, useEffect } from 'react';

import { Calendar, FileText, Shield, AlertCircle, Check, X, User, Lock, Clock, Download } from 'lucide-react';

const ConsentManagementSystem = () => {

const [activeTab, setActiveTab] = useState('consensi');

const [selectedPatient, setSelectedPatient] = useState(null);

const [consentForm, setConsentForm] = useState({

type: 'trattamento',

sections: []

});

const [signature, setSignature] = useState('');

const [privacyLog, setPrivacyLog] = useState([]);

// Dati esempio pazienti

const patients = [

{ id: 1, name: 'Mario Rossi', cf: 'RSSMRA85M01H501Z', consents: 3, lastUpdate: '2024-01-15' },

{ id: 2, name: 'Anna Verdi', cf: 'VRDNNA90F41H501K', consents: 2, lastUpdate: '2024-02-01' },

{ id: 3, name: 'Luca Bianchi', cf: 'BNCLCU88L15H501P', consents: 4, lastUpdate: '2024-01-20' }

];

// Template consensi

const consentTemplates = {

trattamento: {

title: 'Consenso Informato al Trattamento Fisioterapico',

sections: [

{ id: 'diagnosi', label: 'Diagnosi', type: 'text' },

{ id: 'trattamento', label: 'Tipo di Trattamento', type: 'text' },

{ id: 'obiettivi', label: 'Obiettivi', type: 'textarea' },

{ id: 'rischi', label: 'Rischi Potenziali', type: 'checklist',

options: ['Dolore temporaneo', 'Affaticamento', 'Reazione cutanea', 'Nessun rischio significativo'] },

{ id: 'alternative', label: 'Alternative Terapeutiche', type: 'textarea' }

]

},

privacy: {

title: 'Consenso Trattamento Dati Personali (GDPR)',

sections: [

{ id: 'finalita\_cura', label: 'Finalità di cura', type: 'checkbox', required: true },

{ id: 'finalita\_amministrative', label: 'Finalità amministrative', type: 'checkbox', required: true },

{ id: 'comunicazioni', label: 'Invio comunicazioni', type: 'checkbox', required: false },

{ id: 'ricerca', label: 'Ricerca scientifica anonimizzata', type: 'checkbox', required: false },

{ id: 'immagini', label: 'Documentazione fotografica', type: 'checkbox', required: false },

{ id: 'condivisione', label: 'Condivisione con altri specialisti', type: 'checkbox', required: false }

]

}

};

// Log esempio privacy

useEffect(() => {

setPrivacyLog([

{ id: 1, operator: 'Dr. Bianchi', action: 'Visualizzazione', patient: 'Mario Rossi',

timestamp: '2024-01-15 09:30', ip: '192.168.1.10' },

{ id: 2, operator: 'Ft. Verdi', action: 'Modifica referto', patient: 'Anna Verdi',

timestamp: '2024-01-15 10:15', ip: '192.168.1.15' },

{ id: 3, operator: 'Segr. Rossi', action: 'Stampa', patient: 'Luca Bianchi',

timestamp: '2024-01-15 11:00', ip: '192.168.1.5' }

]);

}, []);

const ConsentTab = () => (

<div className="p-6">

<h2 className="text-2xl font-bold mb-6 flex items-center gap-2">

<FileText className="w-6 h-6" />

Gestione Consensi Informati

</h2>

{!selectedPatient ? (

<div className="grid gap-4">

<div className="bg-blue-50 p-4 rounded-lg">

<h3 className="font-semibold mb-3">Seleziona Paziente</h3>

<div className="grid gap-3">

{patients.map(patient => (

<div

key={patient.id}

onClick={() => setSelectedPatient(patient)}

className="bg-white p-4 rounded-lg shadow hover:shadow-md cursor-pointer transition-all"

>

<div className="flex justify-between items-center">

<div>

<p className="font-semibold">{patient.name}</p>

<p className="text-sm text-gray-600">CF: {patient.cf}</p>

</div>

<div className="text-right">

<p className="text-sm text-gray-500">Consensi attivi: {patient.consents}</p>

<p className="text-xs text-gray-400">Ultimo aggiornamento: {patient.lastUpdate}</p>

</div>

</div>

</div>

))}

</div>

</div>

</div>

) : (

<div className="space-y-6">

<div className="bg-white p-4 rounded-lg shadow">

<div className="flex justify-between items-center mb-4">

<h3 className="font-semibold text-lg">

Paziente: {selectedPatient.name}

</h3>

<button

onClick={() => setSelectedPatient(null)}

className="text-blue-600 hover:text-blue-800"

>

Cambia paziente

</button>

</div>

<div className="grid gap-4">

<div className="border rounded-lg p-4">

<h4 className="font-semibold mb-3">Nuovo Consenso</h4>

<div className="grid gap-3">

<select

className="p-2 border rounded"

value={consentForm.type}

onChange={(e) => setConsentForm({

type: e.target.value,

sections: consentTemplates[e.target.value].sections

})}

>

<option value="trattamento">Consenso Trattamento</option>

<option value="privacy">Consenso Privacy GDPR</option>

</select>

{consentForm.sections.length > 0 && (

<div className="mt-4 space-y-3">

<h5 className="font-semibold">

{consentTemplates[consentForm.type].title}

</h5>

{consentForm.sections.map(section => (

<div key={section.id} className="space-y-1">

<label className="text-sm font-medium">

{section.label}

{section.required && <span className="text-red-500">\*</span>}

</label>

{section.type === 'text' && (

<input type="text" className="w-full p-2 border rounded" />

)}

{section.type === 'textarea' && (

<textarea className="w-full p-2 border rounded" rows="3" />

)}

{section.type === 'checkbox' && (

<div className="flex items-center gap-2">

<input type="checkbox" defaultChecked={section.required} />

<span className="text-sm">Acconsento</span>

</div>

)}

{section.type === 'checklist' && (

<div className="space-y-1">

{section.options.map(option => (

<div key={option} className="flex items-center gap-2">

<input type="checkbox" />

<span className="text-sm">{option}</span>

</div>

))}

</div>

)}

</div>

))}

<div className="mt-6 p-4 border-2 border-dashed rounded-lg">

<p className="text-sm font-medium mb-2">Firma del Paziente</p>

<div className="h-32 bg-gray-50 rounded flex items-center justify-center">

<p className="text-gray-400">Area firma digitale</p>

</div>

</div>

<div className="flex gap-3 mt-4">

<button className="px-4 py-2 bg-green-600 text-white rounded hover:bg-green-700">

<Check className="w-4 h-4 inline mr-2" />

Salva Consenso

</button>

<button className="px-4 py-2 bg-gray-600 text-white rounded hover:bg-gray-700">

<Download className="w-4 h-4 inline mr-2" />

Genera PDF

</button>

</div>

</div>

)}

</div>

</div>

<div className="border rounded-lg p-4">

<h4 className="font-semibold mb-3">Consensi Attivi</h4>

<div className="space-y-2">

<div className="flex justify-between items-center p-2 bg-green-50 rounded">

<span className="text-sm">Trattamento Fisioterapico</span>

<span className="text-xs text-green-600">Valido fino: 15/01/2025</span>

</div>

<div className="flex justify-between items-center p-2 bg-green-50 rounded">

<span className="text-sm">Privacy GDPR</span>

<span className="text-xs text-green-600">Valido fino: 15/01/2025</span>

</div>

<div className="flex justify-between items-center p-2 bg-yellow-50 rounded">

<span className="text-sm">Documentazione Fotografica</span>

<span className="text-xs text-yellow-600">Scade tra 30 giorni</span>

</div>

</div>

</div>

</div>

</div>

</div>

)}

</div>

);

const PrivacyTab = () => (

<div className="p-6">

<h2 className="text-2xl font-bold mb-6 flex items-center gap-2">

<Shield className="w-6 h-6" />

Privacy e Protezione Dati

</h2>

<div className="grid gap-6">

<div className="grid grid-cols-4 gap-4">

<div className="bg-blue-50 p-4 rounded-lg">

<p className="text-sm text-gray-600">Accessi Oggi</p>

<p className="text-2xl font-bold">145</p>

</div>

<div className="bg-green-50 p-4 rounded-lg">

<p className="text-sm text-gray-600">Consensi Raccolti</p>

<p className="text-2xl font-bold">12</p>

</div>

<div className="bg-yellow-50 p-4 rounded-lg">

<p className="text-sm text-gray-600">Export Dati</p>

<p className="text-2xl font-bold">3</p>

</div>

<div className="bg-red-50 p-4 rounded-lg">

<p className="text-sm text-gray-600">Alert Sicurezza</p>

<p className="text-2xl font-bold">1</p>

</div>

</div>

<div className="bg-white rounded-lg shadow">

<div className="p-4 border-b">

<h3 className="font-semibold">Registro Accessi (Audit Log)</h3>

</div>

<div className="overflow-x-auto">

<table className="w-full">

<thead className="bg-gray-50">

<tr>

<th className="px-4 py-2 text-left text-sm">Operatore</th>

<th className="px-4 py-2 text-left text-sm">Azione</th>

<th className="px-4 py-2 text-left text-sm">Paziente</th>

<th className="px-4 py-2 text-left text-sm">Data/Ora</th>

<th className="px-4 py-2 text-left text-sm">IP</th>

</tr>

</thead>

<tbody>

{privacyLog.map(log => (

<tr key={log.id} className="border-b hover:bg-gray-50">

<td className="px-4 py-2 text-sm">{log.operator}</td>

<td className="px-4 py-2 text-sm">

<span className={`px-2 py-1 rounded text-xs ${

log.action === 'Modifica referto' ? 'bg-yellow-100' :

log.action === 'Stampa' ? 'bg-blue-100' :

'bg-gray-100'

}`}>

{log.action}

</span>

</td>

<td className="px-4 py-2 text-sm">{log.patient}</td>

<td className="px-4 py-2 text-sm">{log.timestamp}</td>

<td className="px-4 py-2 text-sm font-mono text-xs">{log.ip}</td>

</tr>

))}

</tbody>

</table>

</div>

</div>

<div className="bg-yellow-50 border border-yellow-200 rounded-lg p-4">

<div className="flex items-start gap-3">

<AlertCircle className="w-5 h-5 text-yellow-600 mt-1" />

<div>

<p className="font-semibold text-yellow-800">Alert Sicurezza</p>

<p className="text-sm text-yellow-700 mt-1">

Accesso anomalo rilevato: Dr. Rossi ha visualizzato 50+ cartelle in 1 ora

</p>

<div className="flex gap-2 mt-3">

<button className="px-3 py-1 bg-yellow-600 text-white text-sm rounded hover:bg-yellow-700">

Richiedi Giustificazione

</button>

<button className="px-3 py-1 bg-red-600 text-white text-sm rounded hover:bg-red-700">

Blocca Temporaneamente

</button>

</div>

</div>

</div>

</div>

</div>

</div>

);

const RefertiTab = () => (

<div className="p-6">

<h2 className="text-2xl font-bold mb-6 flex items-center gap-2">

<FileText className="w-6 h-6" />

Referti Fisioterapici

</h2>

<div className="grid gap-6">

<div className="bg-white rounded-lg shadow p-6">

<h3 className="font-semibold text-lg mb-4">Nuovo Referto di Valutazione</h3>

<div className="grid gap-4">

<div className="grid grid-cols-2 gap-4">

<div>

<label className="block text-sm font-medium mb-1">Paziente</label>

<select className="w-full p-2 border rounded">

<option>Seleziona paziente...</option>

{patients.map(p => (

<option key={p.id}>{p.name}</option>

))}

</select>

</div>

<div>

<label className="block text-sm font-medium mb-1">Data Valutazione</label>

<input type="date" className="w-full p-2 border rounded" />

</div>

</div>

<div>

<h4 className="font-semibold mb-2">1. Anamnesi Funzionale</h4>

<textarea

className="w-full p-2 border rounded"

rows="3"

placeholder="Motivo del consulto, storia clinica rilevante..."

/>

</div>

<div>

<h4 className="font-semibold mb-2">2. Esame Obiettivo</h4>

<div className="grid grid-cols-2 gap-4">

<div>

<label className="text-sm">Osservazione Posturale</label>

<textarea className="w-full p-2 border rounded" rows="2" />

</div>

<div>

<label className="text-sm">Palpazione</label>

<textarea className="w-full p-2 border rounded" rows="2" />

</div>

</div>

</div>

<div>

<h4 className="font-semibold mb-2">3. Test Specifici</h4>

<div className="grid grid-cols-3 gap-2">

{['Test di Lasègue', 'Test di Thomas', 'Test di Trendelenburg',

'ROM Articolare', 'Forza Muscolare', 'Test Neurologici'].map(test => (

<div key={test} className="flex items-center gap-2">

<input type="checkbox" />

<label className="text-sm">{test}</label>

</div>

))}

</div>

</div>

<div>

<h4 className="font-semibold mb-2">4. Valutazione ROM (Range of Motion)</h4>

<div className="grid grid-cols-3 gap-4">

<div>

<label className="text-sm">Flessione (gradi)</label>

<input type="number" className="w-full p-2 border rounded" placeholder="0-180" />

</div>

<div>

<label className="text-sm">Estensione (gradi)</label>

<input type="number" className="w-full p-2 border rounded" placeholder="0-45" />

</div>

<div>

<label className="text-sm">Abduzione (gradi)</label>

<input type="number" className="w-full p-2 border rounded" placeholder="0-180" />

</div>

</div>

</div>

<div>

<h4 className="font-semibold mb-2">5. Diagnosi Fisioterapica</h4>

<input

type="text"

className="w-full p-2 border rounded"

placeholder="Codice ICF e descrizione..."

/>

</div>

<div>

<h4 className="font-semibold mb-2">6. Piano di Trattamento</h4>

<div className="grid grid-cols-2 gap-4">

<div>

<label className="text-sm">Obiettivi a Breve Termine</label>

<textarea className="w-full p-2 border rounded" rows="2" />

</div>

<div>

<label className="text-sm">Tecniche Proposte</label>

<textarea className="w-full p-2 border rounded" rows="2" />

</div>

</div>

</div>

<div className="flex gap-3">

<button className="px-4 py-2 bg-blue-600 text-white rounded hover:bg-blue-700">

Salva Bozza

</button>

<button className="px-4 py-2 bg-green-600 text-white rounded hover:bg-green-700">

Firma e Finalizza

</button>

<button className="px-4 py-2 bg-gray-600 text-white rounded hover:bg-gray-700">

<Download className="w-4 h-4 inline mr-2" />

Esporta PDF

</button>

</div>

</div>

</div>

<div className="bg-white rounded-lg shadow p-4">

<h4 className="font-semibold mb-3">Referti Recenti</h4>

<div className="space-y-2">

<div className="flex justify-between items-center p-3 bg-gray-50 rounded">

<div>

<p className="font-medium">Mario Rossi - Valutazione Spalla</p>

<p className="text-sm text-gray-600">15/01/2024 - Dr. Bianchi</p>

</div>

<button className="text-blue-600 hover:text-blue-800">

Visualizza

</button>

</div>

<div className="flex justify-between items-center p-3 bg-gray-50 rounded">

<div>

<p className="font-medium">Anna Verdi - Valutazione Lombare</p>

<p className="text-sm text-gray-600">14/01/2024 - Dr. Verdi</p>

</div>

<button className="text-blue-600 hover:text-blue-800">

Visualizza

</button>

</div>

</div>

</div>

</div>

</div>

);

return (

<div className="min-h-screen bg-gray-100">

<div className="bg-white shadow">

<div className="max-w-7xl mx-auto px-4">

<div className="flex items-center justify-between py-4">

<h1 className="text-2xl font-bold text-gray-900">

Sistema Cartella Clinica - Medicina Ravenna

</h1>

<div className="flex items-center gap-4">

<span className="text-sm text-gray-600">

<User className="w-4 h-4 inline mr-1" />

Dr. Marco Bianchi

</span>

<span className="text-sm text-gray-600">

<Clock className="w-4 h-4 inline mr-1" />

{new Date().toLocaleString('it-IT')}

</span>

</div>

</div>

<div className="flex gap-1 border-t">

<button

onClick={() => setActiveTab('consensi')}

className={`px-4 py-2 font-medium transition-colors ${

activeTab === 'consensi'

? 'bg-blue-600 text-white'

: 'text-gray-600 hover:bg-gray-100'

}`}

>

<FileText className="w-4 h-4 inline mr-2" />

Consensi

</button>

<button

onClick={() => setActiveTab('privacy')}

className={`px-4 py-2 font-medium transition-colors ${

activeTab === 'privacy'

? 'bg-blue-600 text-white'

: 'text-gray-600 hover:bg-gray-100'

}`}

>

<Shield className="w-4 h-4 inline mr-2" />

Privacy

</button>

<button

onClick={() => setActiveTab('referti')}

className={`px-4 py-2 font-medium transition-colors ${

activeTab === 'referti'

? 'bg-blue-600 text-white'

: 'text-gray-600 hover:bg-gray-100'

}`}

>

<FileText className="w-4 h-4 inline mr-2" />

Referti

</button>

</div>

</div>

</div>

<div className="max-w-7xl mx-auto">

{activeTab === 'consensi' && <ConsentTab />}

{activeTab === 'privacy' && <PrivacyTab />}

{activeTab === 'referti' && <RefertiTab />}

</div>

</div>

);

};

export default ConsentManagementSystem;