

Residents Module - Part 1: UI/UX Improvements & Advanced Filters

Implementation Summary

Date: December 11, 2025

Commit: `ecb1ccb` - feat: Comprehensive polish Part 1 - UI/UX improvements and advanced filters for residents module

Status:  **COMPLETED**



New Components Created

1. ResidentCard Component

File: `src/components/operator/residents/ResidentCard.tsx`

Features:

- Enhanced card layout with professional design
- Avatar display with gradient fallback for initials
- Status badge (Active, Inactive, Hospitalized, etc.)
- Care level badge with color coding
- Key information grid with icons:
 - Age (with calendar icon)
 - Room number (with map pin icon)
 - Home name (with home icon)
 - Primary caregiver (with user icon)
 - Assessment and incident count badges
- Admission date display
- Hover effects and smooth transitions
- Mobile-responsive design
- Clickable card linking to resident detail page

Usage:

```
<ResidentCard resident={residentData} />
<ResidentCardGrid residents={residentsArray} />
```

2. CareLevelBadge Component

File: `src/components/ui/CareLevelBadge.tsx`

Features:

- Color-coded badges for all care levels:
-  **Independent** (Green) - Low care needs
-  **Assisted Living** (Blue) - Moderate care needs

-  **Memory Care** (Purple) - Specialized care
-  **Skilled Nursing** (Orange) - High care needs
- Icon support with care-level-specific icons
- Configurable sizes (sm, md, lg)
- Tooltips showing care level description
- Helper functions for reuse:
 - `getCareLevelColor()`
 - `getCareLevelIcon()`
 - `getCareLevelLabel()`

Usage:

```
<CareLevelBadge level="ASSISTED_LIVING" size="md" />
```

3. ResidentCardSkeleton Component

File: `src/components/operator/residents/ResidentCardSkeleton.tsx`

Features:

- Animated shimmer effect
- Matches ResidentCard layout exactly
- Multiple variants:
 - `ResidentCardSkeleton` - Single card skeleton
 - `ResidentListSkeleton` - Multiple card skeletons
 - `ResidentTableRowSkeleton` - Single table row skeleton
 - `ResidentTableSkeleton` - Multiple table row skeletons
- Configurable count for list/table variants

Usage:

```
<ResidentListSkeleton count={6} />
<ResidentTableSkeleton count={5} />
```

4. ResidentFilters Component

File: `src/components/operator/residents/ResidentFilters.tsx`

Features:

- 6+ Advanced Filter Options:

1. **Care Level** - Filter by Independent, Assisted Living, Memory Care, Skilled Nursing
 2. **Status** - Filter by Active, Inactive, Hospitalized, Deceased, Pending, Inquiry, Discharged
 3. **Age Range** - Filter by Under 60, 60-70, 70-80, 80-90, 90+
 4. **Room Floor** - Filter by Floor 1-5
 5. **Admission Date Range** - Filter by Last 30 Days, Last 90 Days, Last Year, More Than a Year
 6. **Assigned Caregiver** - Filter by specific caregiver assignment
- Active filter count indicator
 - “Clear All Filters” button

- Responsive grid layout (1-6 columns based on screen size)
- Clean, professional UI design

Usage:

```
<ResidentFiltersComponent
  filters={filters}
  onChange={setFilters}
  onClear={handleClearFilters}
  caregivers={caregiversList}
/>
```

5. ResidentsListClient Component

File: src/components/operator/residents/ResidentsListClient.tsx

Features:

- Enhanced Search:

- Search by name, room number, or medical conditions
- Debounced input for performance
- Clear search button
- Results count display

- 8 Sorting Options:

1. Name (A-Z)
2. Name (Z-A)
3. Newest Admission
4. Oldest Admission
5. Youngest First
6. Oldest First
7. By Care Level
8. By Room Number

- View Mode Toggle:

- Grid view (cards)
- Table view (traditional table)

- Smart Filtering:

- Client-side filtering for instant results
- Multiple filters active simultaneously
- Handles null/undefined values gracefully

- Enhanced Empty States:

- Context-aware messages
- Different states for “no data” vs “no filtered results”
- Actionable buttons

- Loading States:

- Skeleton loaders for both grid and table views

- Mobile-Responsive:

- Stacked layout on mobile
- Touch-friendly controls
- Overflow scroll for tables

Usage:

```
<ResidentsListClient
  initialResidents={residents}
  caregivers={caregiversList}
/>
```

Utility Functions

resident-utils.ts

File: `src/lib/resident-utils.ts`

Functions:

1. `calculateAge(dateOfBirth)` - Calculate age in years from date of birth
2. `getRoomFloor(roomNumber)` - Extract floor number from room number (e.g., 201 → 2)
3. `getDaysSinceAdmission(admissionDate)` - Calculate days since admission
4. `formatDate(date, formatStr)` - User-friendly date formatting
5. `isWithinDays(date, days)` - Check if date is within a certain number of days
6. `getAgeRange(age)` - Get age range category for a given age
7. `isAgeInRange(age, range)` - Filter age by range
8. `getAdmissionDateRange(admissionDate)` - Get admission date range category
9. `isAdmissionInRange(admissionDate, range)` - Filter by admission date range
10. `getInitials(firstName, lastName)` - Get resident initials
11. `getFullName(firstName, lastName)` - Get full name

Enhanced Existing Components

1. Enhanced Tab Design

File: `src/app/operator/residents/[id]/page.tsx`

Changes:

- Added icons to each tab with proper coloring
- Added count badges for tabs with data:
- Assessments tab shows count
- Incidents tab shows count
- Family tab shows count
- Improved active tab styling
- Better mobile responsiveness with overflow scroll
- Enhanced hover states
- Whitespace nowrap for tab labels

Visual Improvements:

```
// Before:  
<Link>Assessments</Link>  
  
// After:  
<Link>  
  <Icon className="w-4 h-4" />  
  <span>Assessments</span>  
  {count > 0 && <Badge>{count}</Badge>}  
</Link>
```

2. Enhanced Empty State Component

File: src/components/ui/empty-state.tsx

Changes:

- Added support for `onClick` handler in addition to `href`
- Allows for both navigation and custom actions
- Better flexibility for different use cases

Usage:

```
// With href:  
<EmptyState action={{ label: "Add Resident", href: "/residents/new" }} />  
  
// With onClick:  
<EmptyState action={{ label: "Clear Filters", onClick: handleClear }} />
```

✓ Success Criteria Met

✓ Visual Design Improvements

- ✓ Enhanced resident cards with professional layout
- ✓ Better status badges with colors and icons
- ✓ Care level badges with appropriate colors
- ✓ Improved typography and spacing
- ✓ Better visual hierarchy
- ✓ Age display and calculation
- ✓ Room number display
- ✓ Primary caregiver display

✓ Loading States

- ✓ Skeleton loaders for cards
- ✓ Skeleton loaders for table rows
- ✓ Better loading feedback
- ✓ Animated shimmer effects

✓ Empty States

- ✓ Helpful messages when no data

- Actionable suggestions
- Better visual design
- Context-aware states

✓ Mobile Responsiveness

- Responsive grid layouts (1/2/3 columns)
- Mobile-friendly filters (vertical stacking)
- Touch-friendly elements
- Overflow scroll for tabs

✓ Advanced Filters

- Filter by care level (4 options)
- Filter by status (7 options)
- Filter by age range (5 options)
- Filter by room floor (5 options)
- Filter by admission date range (4 options)
- Filter by assigned caregiver
- Multiple filters active at once
- Active filter count indicator
- Clear all filters button

✓ Sorting Options

- Sort by name (A-Z, Z-A)
- Sort by admission date (newest/oldest)
- Sort by age (youngest/oldest)
- Sort by care level
- Sort by room number
- **Total: 8 sorting options**

✓ Enhanced Search

- Search by name
- Search by room number
- Search by medical conditions
- Clear search button
- Search results count

✓ Tab Design

- Better tab styling with icons
- Active tab indicators
- Tab counts (Assessments, Incidents, Family)
- Mobile-responsive overflow scroll

✓ Status Indicators

- Better visual indicators for status
- Care level badges with colors and icons
- Status badges with icons
- Age display with icon

- Room number badge

✓ Design Consistency

- Reused components from Caregivers module
- Maintained consistent design language
- Used same color scheme and spacing
- Ensured accessibility

✓ Code Quality

- TypeScript properly typed
 - ESLint validation passed
 - Next.js Image optimization
 - Follows existing code patterns
 - Comprehensive comments
 - Proper imports and exports
-



Statistics

- **New Files Created:** 6
 - **Files Modified:** 2
 - **Lines of Code Added:** 1,215
 - **Lines of Code Modified:** 17
 - **Components Created:** 5
 - **Utility Functions:** 11
 - **Filter Options:** 6+
 - **Sorting Options:** 8
 - **Loading States:** 4 variants
-



Integration Guide

Using the New Components

1. In a Server Component Page:

```
import { ResidentsListClient } from '@/components/operator/residents/ResidentsListClient';

export default async function Page() {
  const residents = await fetchResidents();
  const caregivers = await fetchCaregivers();

  return (
    <ResidentsListClient
      initialResidents={residents}
      caregivers={caregivers}
    />
  );
}
```

2. Using Individual Cards:

```
import { ResidentCard, ResidentCardGrid } from '@/components/operator/residents/ResidentCard';

// Single card:
<ResidentCard resident={resident} />

// Grid of cards:
<ResidentCardGrid residents={residentsArray} />
```

3. Using Filters:

```
import { ResidentFiltersComponent, DEFAULT_FILTERS } from '@/components/operator/residents/ResidentFilters';

const [filters, setFilters] = useState(DEFAULT_FILTERS);

<ResidentFiltersComponent
  filters={filters}
  onChange={setFilters}
  onClear={() => setFilters(DEFAULT_FILTERS)}
  caregivers={caregiversList}
/>
```

4. Using Loading States:

```
import { ResidentListSkeleton, ResidentTableSkeleton } from '@/components/operator/residents/ResidentCardSkeleton';

{isLoading ? (
  <ResidentListSkeleton count={6} />
) : (
  <ResidentCardGrid residents={residents} />
)}
```

5. Using Care Level Badges:

```
import { CareLevelBadge } from '@components/ui/CareLevelBadge';

<CareLevelBadge level="ASSISTED_LIVING" size="md" showIcon={true} />
```

Next Steps

Immediate:

1. Test in Browser:

- Verify all filters work correctly
- Test sorting functionality
- Confirm search works as expected
- Check mobile responsiveness
- Validate loading states

2. Push to GitHub:

- The commit is ready: `ecb1ccb`
- Push manually or set up GitHub token authentication
- Command: `git push origin main`

Future Enhancements (Part 2):

- Analytics dashboard for residents module
- Export functionality (CSV, PDF)
- Document upload for residents
- Quick actions menu
- Batch operations
- Advanced reporting

Known Issues & Notes

Git Push:

- **⚠ Action Required:** Manual push needed due to GitHub token authentication issue
- The commit has been created successfully locally
- Changes are ready to be pushed to `origin/main`

Testing:

- **✓** All components pass ESLint validation
- **✓** TypeScript compilation successful
- **⚠** Browser-based functional testing pending (to be done by user)



Commit Information

Commit Hash: ecb1ccb

Branch: main

Files Changed: 8

Insertions: 1,215

Deletions: 17

Commit Message:

feat: Comprehensive polish Part 1 - UI/UX improvements and advanced filters **for** residents module

 **New Components:**

- ResidentCard, ResidentCardSkeleton, CareLevelBadge
- ResidentFilters, ResidentsListClient

 **UI/UX Enhancements:**

- Enhanced cards, tabs, badges
- Better layout and spacing
- Improved mobile responsiveness

 **Advanced Filtering & Sorting:**

- 6+ filter options, 8 sorting options
- Active filter count, Clear filters button

 **Utility Functions:**

- resident-utils.ts **with** 11 helper functions

 **Code Quality:**

- TypeScript, ESLint validated
- Next.js Image optimization

QQ Credits

Implementation: DeepAgent (Abacus.AI)

Project: CareLinkAI

Repository: profyt7/carelinkai

Deployment: <https://carelinkai.onrender.com>

End of Summary