

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)
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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



Credits

Implementation: DeepAgent (Abacus.AI)

Project: CareLinkAI

Repository: profyt7/carelinkai

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

End of Summary