

CCSH

Community Care Senior Hub

Software Requirements Specification

Module 1 & Module 2 — Prototype

Project	Community Care Senior Hub (CCSH)
Document type	Software Requirements Specification (SRS)
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Scope	Module 1: User Registration & Role Management Module 2: Senior Wellness Profile

Purpose of this document: This SRS covers only Module 1 (User Registration & Role Management) and Module 2 (Senior Wellness Profile). It includes use cases, field specifications, and annotated prototype screens for each module. All other architectural, IoT, and algorithmic components are out of scope for this document.

Module 1 — User Registration & Role Management

Purpose: Register and manage all platform users — seniors, volunteers, medical practitioners, fitness trainers, and mosque/community representatives.

Use Cases

ID	Use case	Primary actor	Preconditions	Postconditions
UC-01	Register Senior Member	User / Admin	Valid email; user accepts consent	Account created; welcome email sent; wellness profile initiated
UC-02	Register Volunteer	Volunteer / Admin	Valid email; credential docs available	Account created; credential review queued
UC-03	Register Medical Practitioner	Practitioner / Admin	CPSO licence number available	Account created; licence verification triggered; access pending approval
UC-04	Register Fitness Trainer	Trainer / Admin	BCRPA or equivalent certification available	Account created; certification queued for review
UC-05	Register Mosque / Community Rep.	Rep. / Admin	Organisation is a registered CCSH partner hub	Account created; linked to partner hub record
UC-06	Login / Logout	Any registered user	Account is active and verified	Session created or terminated; audit log entry written
UC-07	Manage User Profile	Any user / Admin	User is authenticated	Profile updated; change log recorded
UC-08	Assign User Role	Admin	Target account exists; admin has role-edit permission	Role updated; user notified; audit record created
UC-09	Verify Volunteer / Professional Credentials	Admin / Reviewer	User submitted credentials at registration	Credential status set to Verified or Rejected; user notified

Field Specifications — Registration Form

Field	Type	Required	Validation / Notes
First name	Text	Yes	Min 2 chars; letters only
Last name	Text	Yes	Min 2 chars; letters only
Date of birth	Date	Yes	Must be ≥ 55 yrs for Senior Member role
Gender	Dropdown	No	Female / Male / Non-binary / Prefer not to say
Email address	Email	Yes	Unique; RFC-5322; used as login identifier

Field	Type	Required	Validation / Notes
Phone number	Tel	Yes	E.164 format; Canadian area codes validated
Preferred language	Dropdown	No	English, French, Arabic, Turkish, Urdu, Somali
Home address	Text	No	Used for geographic matching; encrypted AES-256
Professional licence #	Text	Conditional	Required for Medical Practitioner & Fitness Trainer
Issuing body	Text	Conditional	Required when licence # provided (e.g. CPSO, BCRPA)
PIPEDA consent	Checkbox	Yes	Must be checked; timestamp & IP logged immutably
Platform terms consent	Checkbox	Yes	Must be checked; timestamp & IP logged immutably
Notification consent	Checkbox	No	Optional; controls SMS / email program alerts

Prototype Screens — Module 1

UC-01 to UC-05: Register new member. Role selection cards at top; form fields adapt to selected role; credential section shown only for professional roles; PIPEDA/PHIPA consent checkboxes are mandatory.

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Mosque & Community-Based Senior Wellness Ecosystem

Admin view

Module 1 — User Registration & Role Mgmt

Module 2 — Senior Wellness Profile

USE CASES

- Register member
- Login / Logout
- Manage profile
- Assign role
- Verify credentials

Register new member

Select a role, then complete the registration form.

Select role

Senior Member
 Volunteer
 Medical Pr.
 Fitness Tr.
 Community Rep.

Personal information

First name * Last name *

Date of birth * Gender

Email address *

Phone * Language

Credentials (professional roles)

Professional licence # Issuing body

Consent

I consent to data collection under PIPEDA & PHIPA.

I agree to platform terms and privacy policy.

I agree to receive wellness notifications (optional).

Submit registration Clear form

Figure 1 — UC-01 to UC-05: Register new member (Senior Member role selected)

UC-06: Login / Logout. Three-step flow (Identify → Verify → Access). Sessions expire after 30 minutes of inactivity per PHIPA.

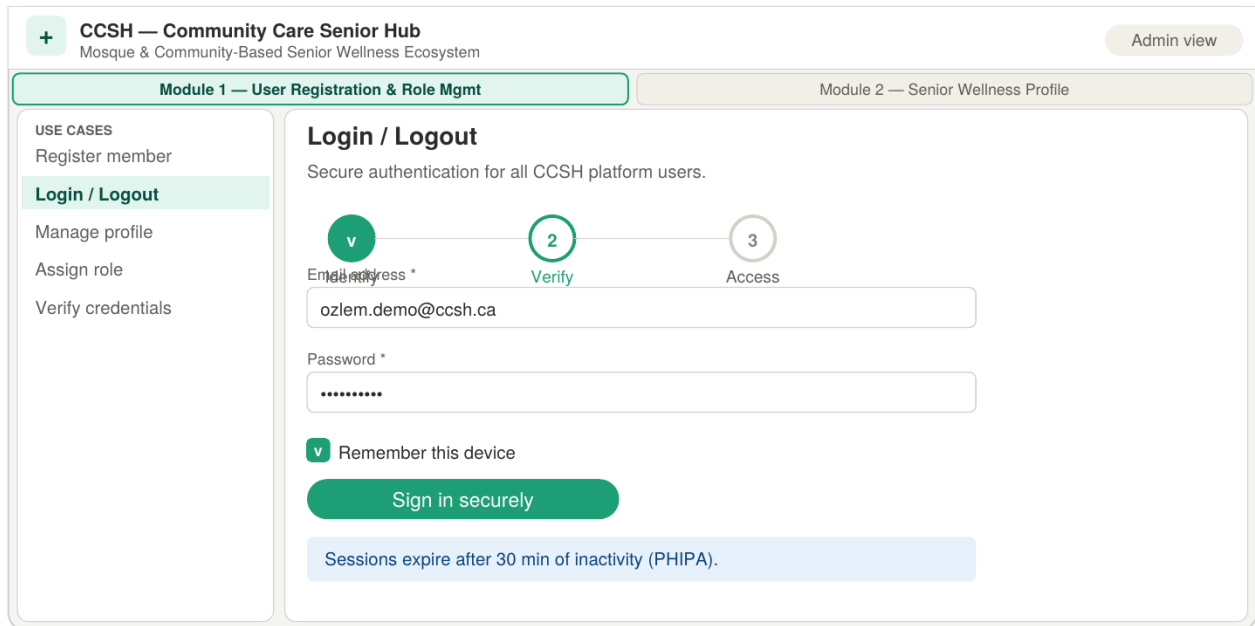


Figure 2 — UC-06: Login / Logout with 3-step progress indicator

UC-08: Assign User Role. Admin searches a user, views current role, selects new role via card grid. Reason field is mandatory for audit trail.

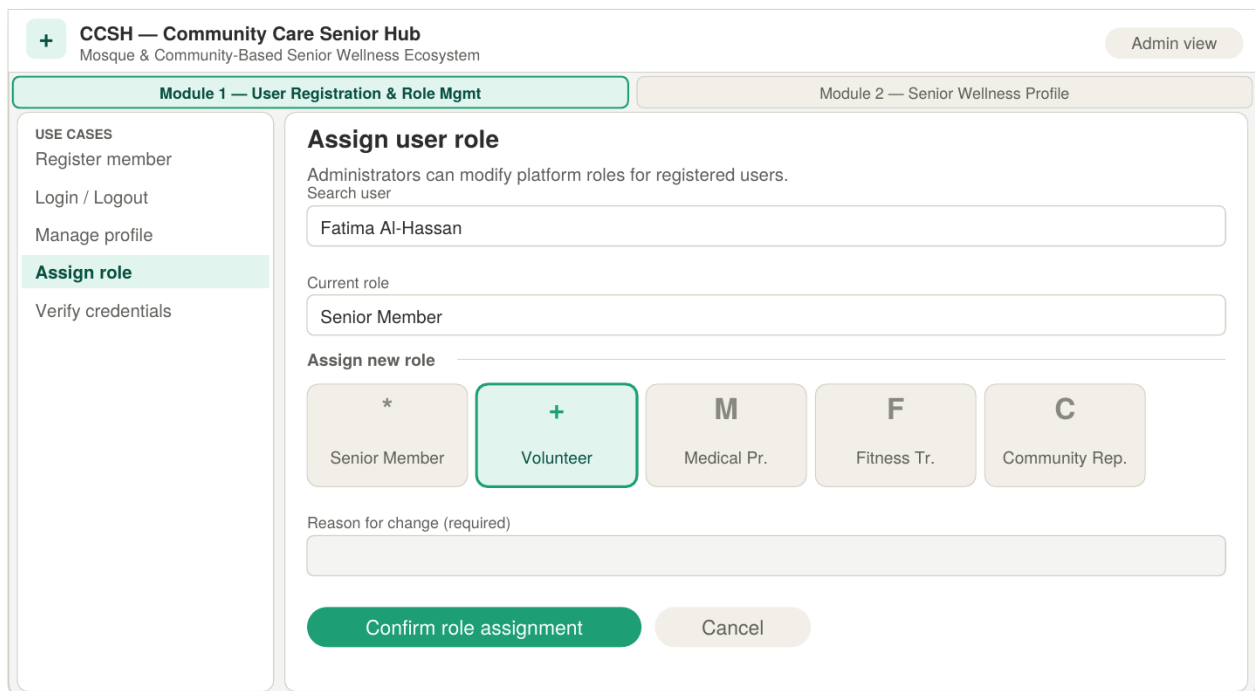


Figure 3 — UC-08: Assign user role (Volunteer selected as new role)

UC-09: Verify Credentials. Lists all submitted credential documents with status (Verified / Pending). Reviewer can approve, reject, or request more documents. All decisions are logged with reviewer ID and timestamp.

The screenshot shows a web application interface for verifying credentials. At the top, there is a header with the CCSH logo and name, a sub-header 'Mosque & Community-Based Senior Wellness Ecosystem', and an 'Admin view' button. Below the header, there are two tabs: 'Module 1 — User Registration & Role Mgmt' (active) and 'Module 2 — Senior Wellness Profile'. On the left side, there is a sidebar menu with 'USE CASES' and several options: 'Register member', 'Login / Logout', 'Manage profile', 'Assign role', and 'Verify credentials' (highlighted). The main content area is titled 'Verify volunteer / professional credentials' and includes a sub-header 'Review and approve submitted credentials for platform access.' Below this, there is a user profile card for 'Dr. Dina Mansour' (DM), a Medical Practitioner, with a status of 'Pending verification' and a submission date of 'May 17, 2026'. A table lists the credentials with their status: 'CPSO Licence No. 87432' (Pending), 'DEA Certificate uploaded' (Verified), 'Geriatric specialization — Ryerson Univ.' (Verified), and 'Criminal background check' (Pending). Below the table, there is a 'Reviewer notes (optional)' text area. At the bottom, there are three buttons: 'Approve credentials' (green), 'Reject' (red), and 'Request more documents' (grey).

Credential	Status
CPSO Licence No. 87432	Pending
DEA Certificate uploaded	Verified
Geriatric specialization — Ryerson Univ.	Verified
Criminal background check	Pending

Figure 4 — UC-09: Verify credentials (Dr. Dina Mansour — Medical Practitioner)

Use Case Diagram — Module 1 & Module 2

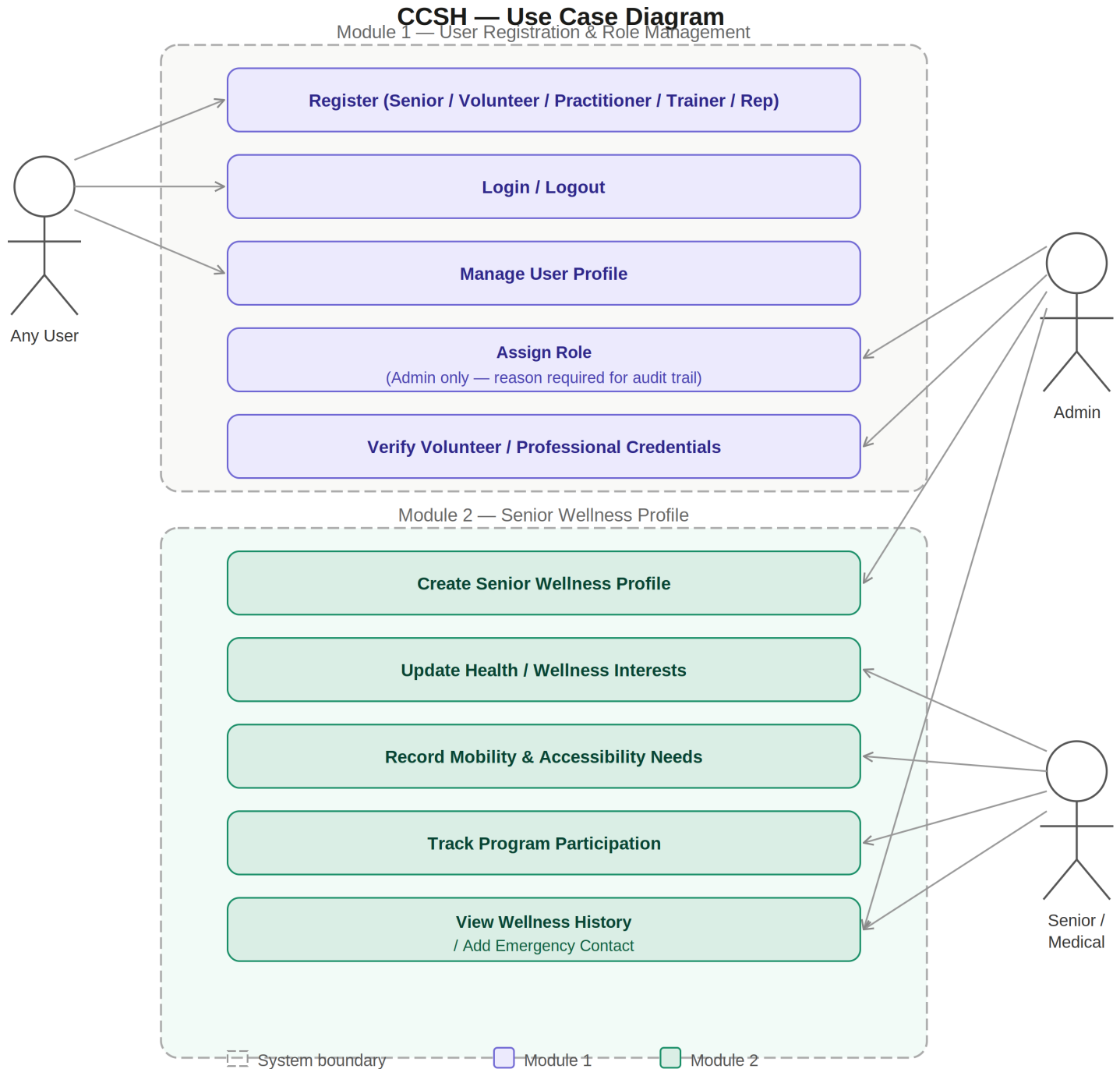


Figure D1 — UC01–UC09 (Module 1) and UC10–UC15 (Module 2). Actors: Any User, Admin, Senior / Medical Practitioner.

Registration & Wellness Flowchart — Modules 1 & 2

CCSH — Registration & Wellness Flowchart

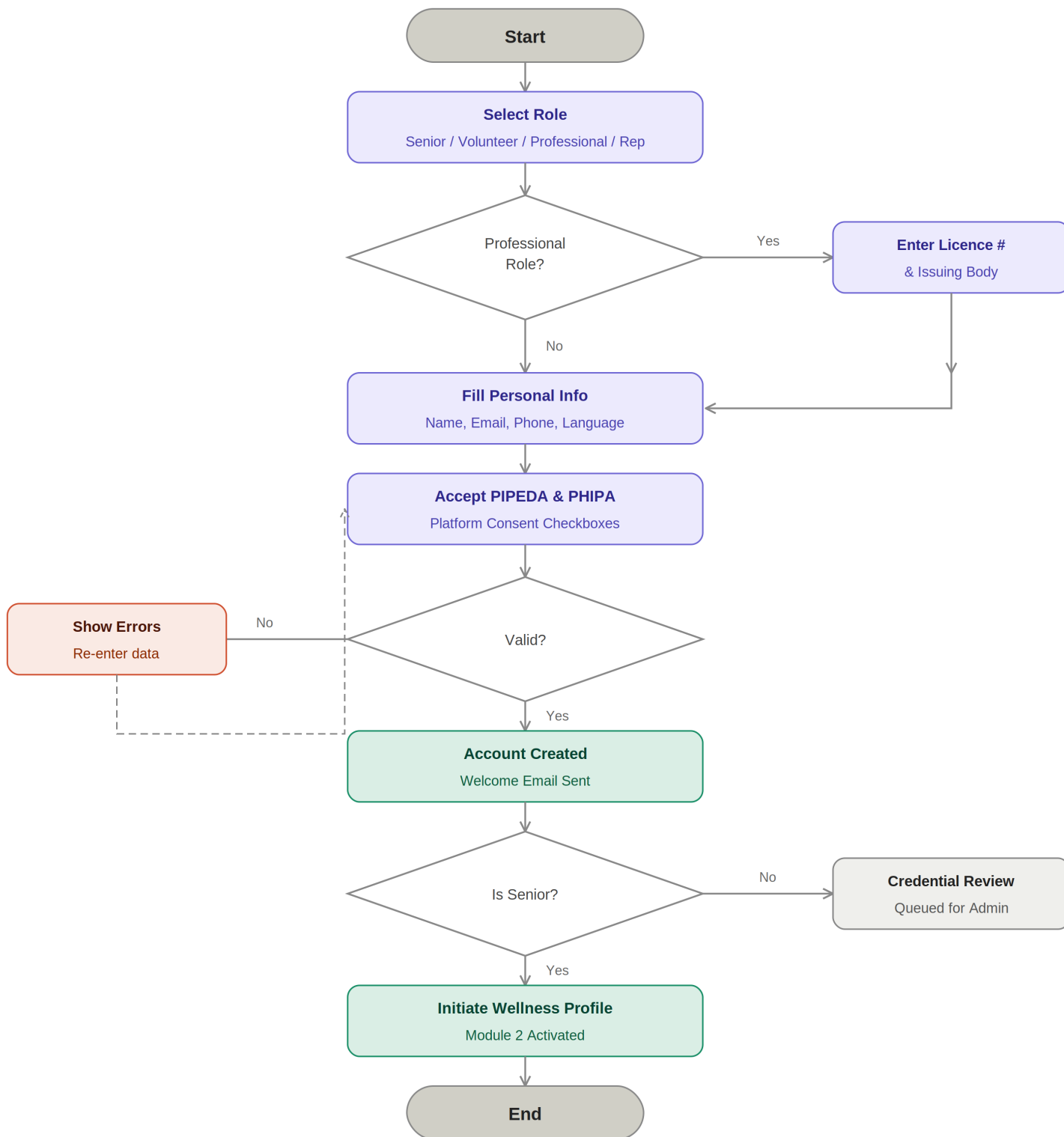


Figure D2 — Role → credential branch (professionals) → PIPEDA/PHIPA consent → account creation → wellness profile (Senior, Module 2).

Module 2 — Senior Wellness Profile

Purpose: Maintain each senior's wellness needs, preferences, and participation history — including health interests, mobility/accessibility needs, program participation, and emergency contacts.

Use Cases

ID	Use case	Primary actor	Preconditions	Postconditions
UC-10	Create Senior Wellness Profile	Admin / Senior	Senior is registered (UC-01 complete)	Wellness profile record created; profile linked to senior account
UC-11	Update Health / Wellness Interests	Senior / Admin	Wellness profile exists	Interest tags updated; profile version incremented
UC-12	Record Mobility or Accessibility Needs	Admin / Medical Practitioner	Wellness profile exists	Mobility level and accommodation flags updated
UC-13	Track Program Participation	System / Admin	Senior is enrolled in a program session	Attendance record created (Attended / Absent / Upcoming); statistics recalculated
UC-14	View Wellness History	Senior / Admin / Medical Practitioner	User authenticated; wellness profile exists	Paginated history displayed; filterable by status (Attended, Absent, Upcoming)
UC-15	Add Emergency Contact	Senior / Admin	Wellness profile exists	Emergency contact record saved; optional SMS notification sent

Wellness Interest Tags — Predefined Taxonomy

Category	Tags (multi-select)
Physical wellness	Gentle yoga, Chair exercises, Walking groups, Balance & fall prevention, Aqua fitness, Physiotherapy support
Mental wellness	Mental wellness sessions, Memory & cognitive activities, Meditation & mindfulness
Nutrition	Nutrition guidance, Halal meal programs, Dietary counselling
Social & cultural	Social gatherings, Arts & crafts, Cultural celebrations, Intergenerational activities
Spiritual	Quran & spiritual wellness, Islamic lectures, Prayer support
Health monitoring	Blood pressure check-ins, Diabetes management, Frailty assessment

Mobility Level — Enumerated Values

Level	Label	System flags triggered
1	Walks independently	No mobility filters applied to program matching
2	Uses cane or walking aid	Accessible venue filter ON; transport assistance offered
3	Wheelchair user	Wheelchair-accessible venues only; companion transport required
4	Homebound — requires home visits	Matching limited to home-visit volunteers; GP dashboard flagged

Prototype Screens — Module 2

Senior Wellness Profile dashboard — 2x2 card grid. Card 1: wellness interest tags. Card 2: mobility level and accessibility accommodations. Card 3: program participation history with statistics. Card 4: emergency contacts. Senior summary bar is always pinned at top.

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Admin view

Module 1 — User Registration & Role Mgmt | **Module 2 — Senior Wellness Profile**

FA Fatima Al-Hassan
Senior Member | Age 72 | Etobicoke, ON | CCSH-2026-00142 | Profile complete | Active

H Health & wellness interests

- Gentle yoga
- Chair exercises
- Nutrition
- Walking groups
- Spiritual wellness
- Arts & crafts

Prefers morning sessions. Arabic-language groups.

A Mobility & accessibility needs

- Walks independently
- Uses cane / walking aid
- Wheelchair user
- Homebound — home visits required

Accommodations:

- Hearing assist.
- Interpreter
- Visual support

P Program participation

Program Name	Date	Attendance
Morning walking group	May 14	Attended
Chair yoga — gentle flow	May 10	Attended
Senior social afternoon	May 7	Absent
Health check-in	Apr 29	Attended

12 Sessions | **3** Absences | **80%** Rate

E Emergency contacts

- KA Karim Al-Hassan** | Son · Primary | +1 (416) 555-0291
- NM Nour Mansouri** | Neighbour · Secondary | +1 (905) 555-0147

+ Add new emergency contact

Figure 5 — Module 2: Senior Wellness Profile dashboard (Fatima Al-Hassan)

UC-14: View Wellness History — full history list with filter pills (All / Attended / Absent / Upcoming). Each row shows programme name, date, venue, and attendance status badge. Aggregate statistics shown at the bottom.

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Module 1 — User Registration & Role Mgmt **Module 2 — Senior Wellness Profile**

FA **Fatima Al-Hassan**
Senior Member | CCSH-2026-00142

View wellness history

All program participation records for this senior.

All Attended Absent Upcoming

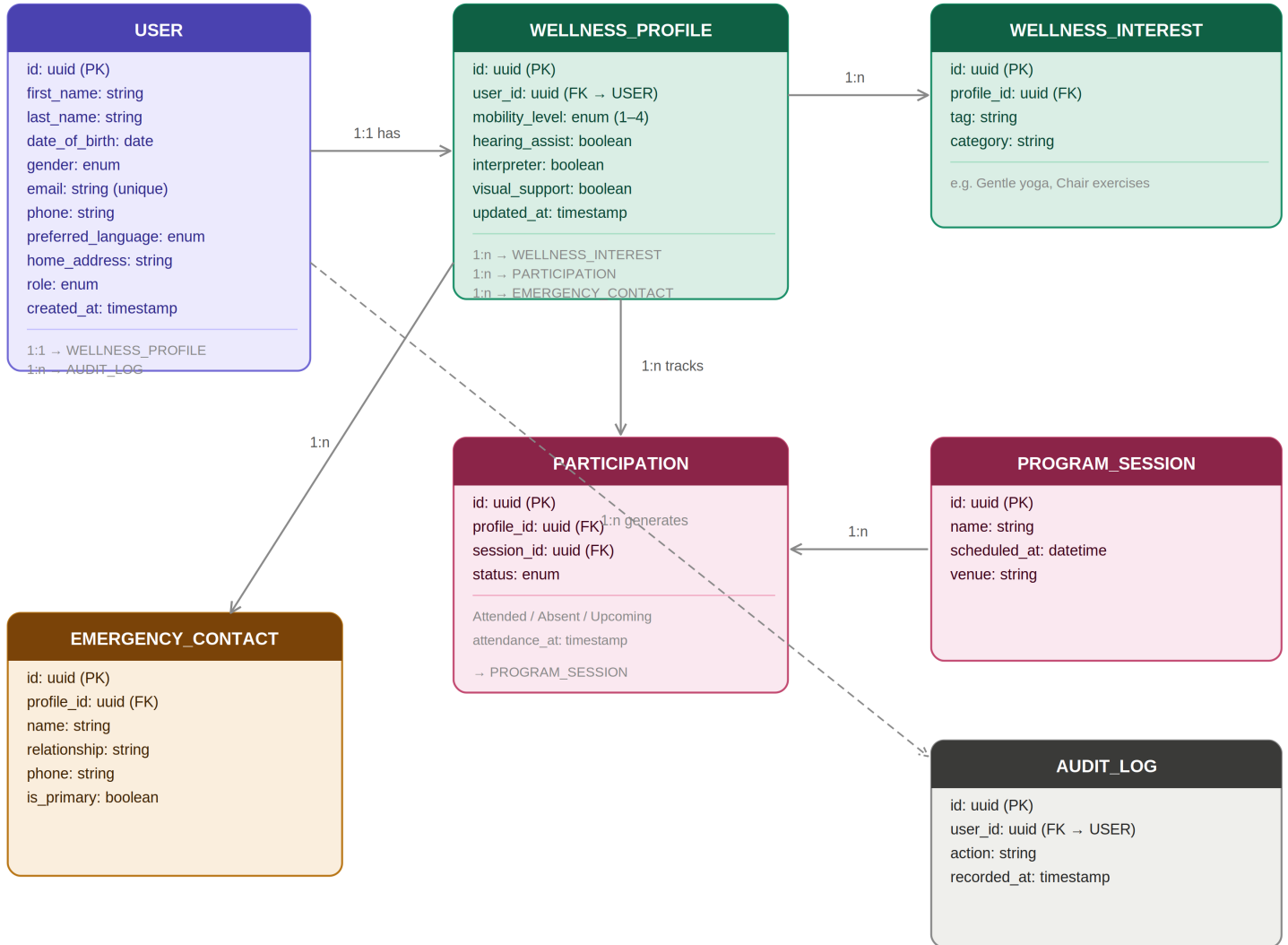
Morning walking group May 14, 2026 · 9:00 AM · Rexdale Mosque	Attended
Chair yoga — gentle flow May 10, 2026 · 10:30 AM · Community Centre	Attended
Senior social afternoon May 7, 2026 · 2:00 PM · Rexdale Mosque	Absent
Health check-in — Dr. Mansour Apr 29, 2026 · 11:00 AM · Virtual	Attended
Balance & fall prevention Apr 22, 2026 · 10:00 AM · Rexdale Mosque	Attended

12 sessions attended · **3 absences** · **80% attendance rate**

Figure 6 — UC-14: View wellness history with attendance statistics

Entity Relationship Diagram — Data Model

CCSH — Entity Relationship Diagram



— USER → WELLNESS_PROFILE → WELLNESS_INTEREST, PARTICIPATION, EMERGENCY_CONTACT; PROGRAM_SESSION → PARTICIPATION; USER → AUDIT_LOG