

A Human-Centered Operating System for Multi
Generational Family Living

IKI LIVING



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KEY RESEARCH METRICS

The 3 Core Frictions in Multi-Generational Homes.

FRAGMENTED FAMILY TIME

48.1%

Nearly half of children miss family bonding windows due to overcommitted work/study routines.



EXHAUSTED PARENTS

50%

Half of surveyed parents suffer from mental burnout due to manually managing micro-reminders and household schedules.



TECHNOLOGICAL EXCLUSION

62.9%

Elders struggle with technology because youth feel impatient (33.3%) or confused (29.6%) when teaching them complex apps.



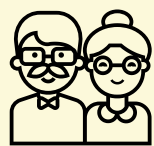
USER CONTEXT



MULTI - GENERATIONAL FAMILY

A typical Vietnamese household consists of three generations living together: grandparents, parents, and children. Although they share the same roof, each generation has different habits, responsibilities, and lifestyles, creating a need for better coordination in daily life.

FAMILY MEMBERS



Grandparents: Often stay at home, care about health, and prefer apps that are simple to use.

Parents: Working full-time, taking care of both the kids and grandparents, while also managing the household.

Children: Study or work, frequently use smartphones, and have limited time at home due to school or work.





IKI LIVING



An empathetic, data-driven residential dashboard that unifies physical IoT environment tracking with a family's emotional and operational co-living routines

Nurturing connection, family health, and domestic harmony.

Relationship index mapping (shared meals, elder care check-ins).

Shared family profiles that align schedules and finances.



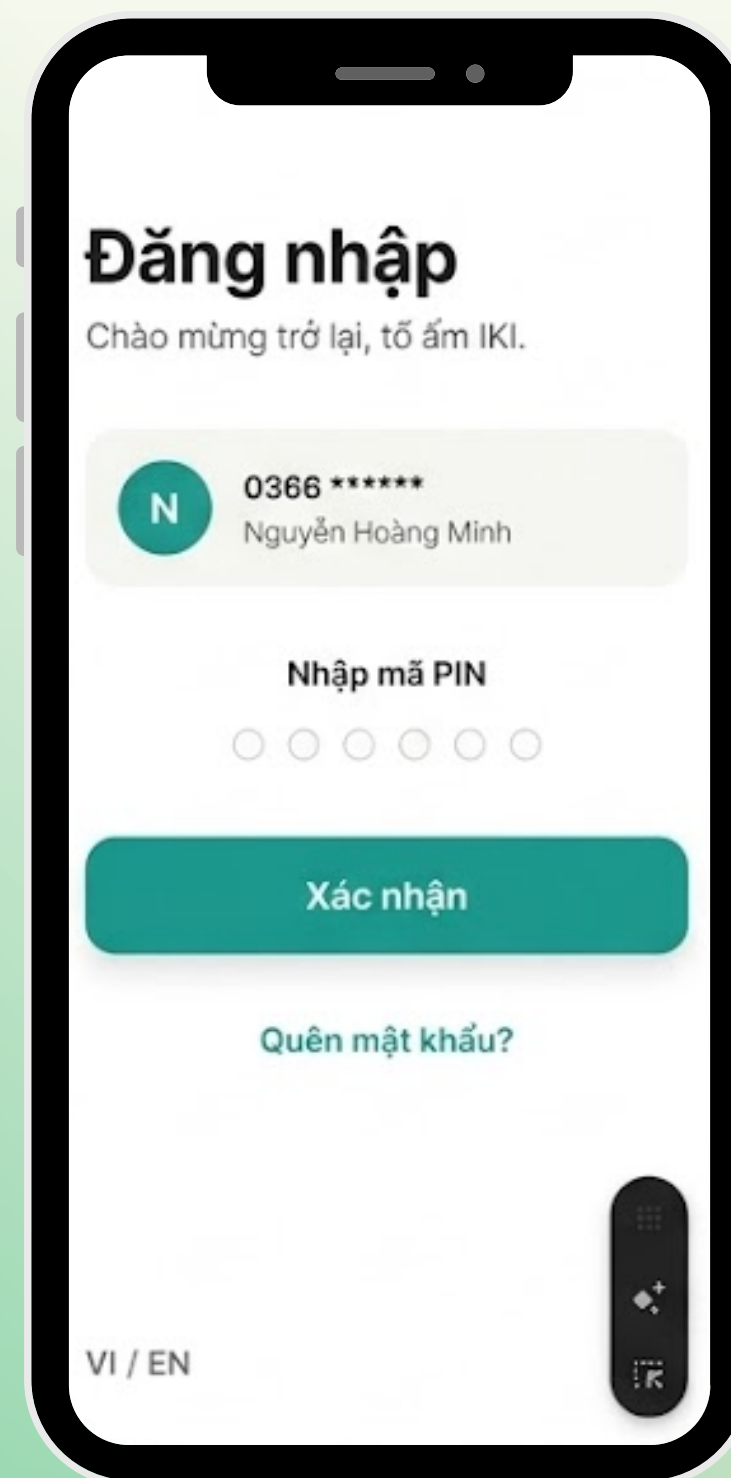
Screens Demo



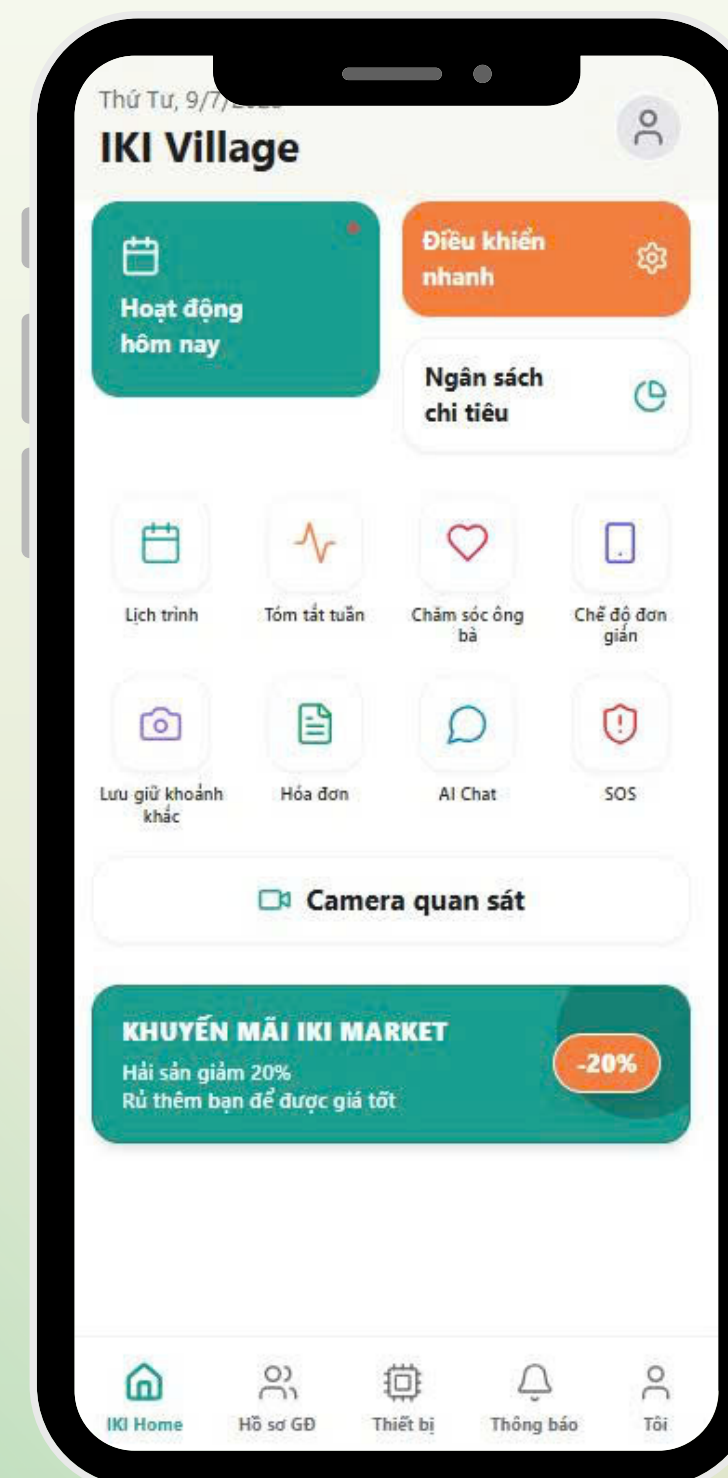
Splash Screen
(Identity)



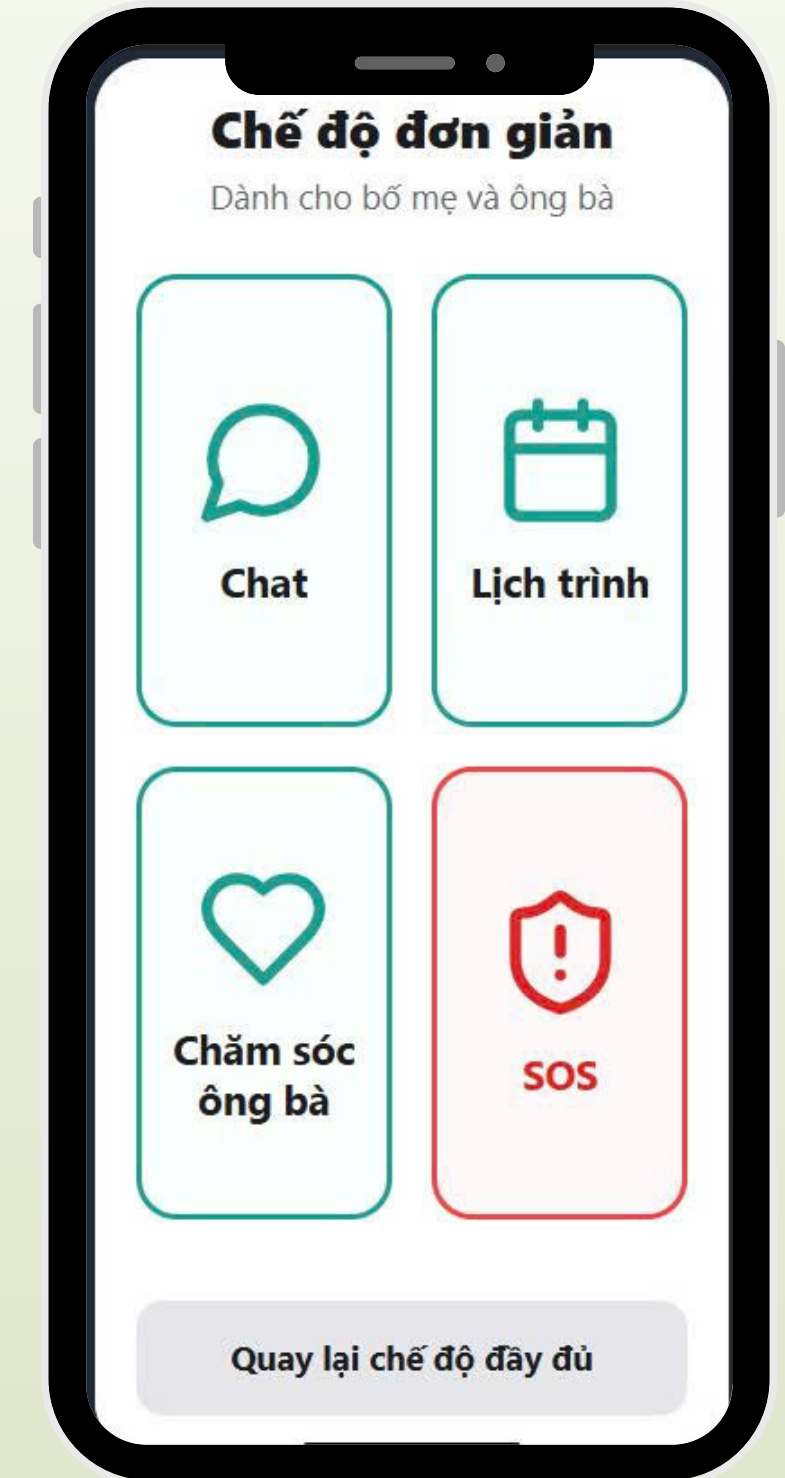
Profile & PIN
Authorization



IKI Village Core
Dashboard



High-Contrast
"Simple Mode"



Core Features

AI-Synced Family Calendar

AI detects overlapping free time to suggest family activities (e.g., "Tonight 6:30 PM: Hotpot").

Unified Feed: Merges kids', parents', and grandparents' daily agendas into one clean timeline.

Appliance Control

Quick Overlay: Swipe up to toggle shared devices (ACs, lights, fridge, TV) without leaving the main dashboard.

Remote Care: Working parents can adjust home climate for elders or kids from anywhere

Senior Care & "Simple Mode"

1-Tap Check-in: Grandparents tap "I am okay today" to send instant reassurance to working parents.

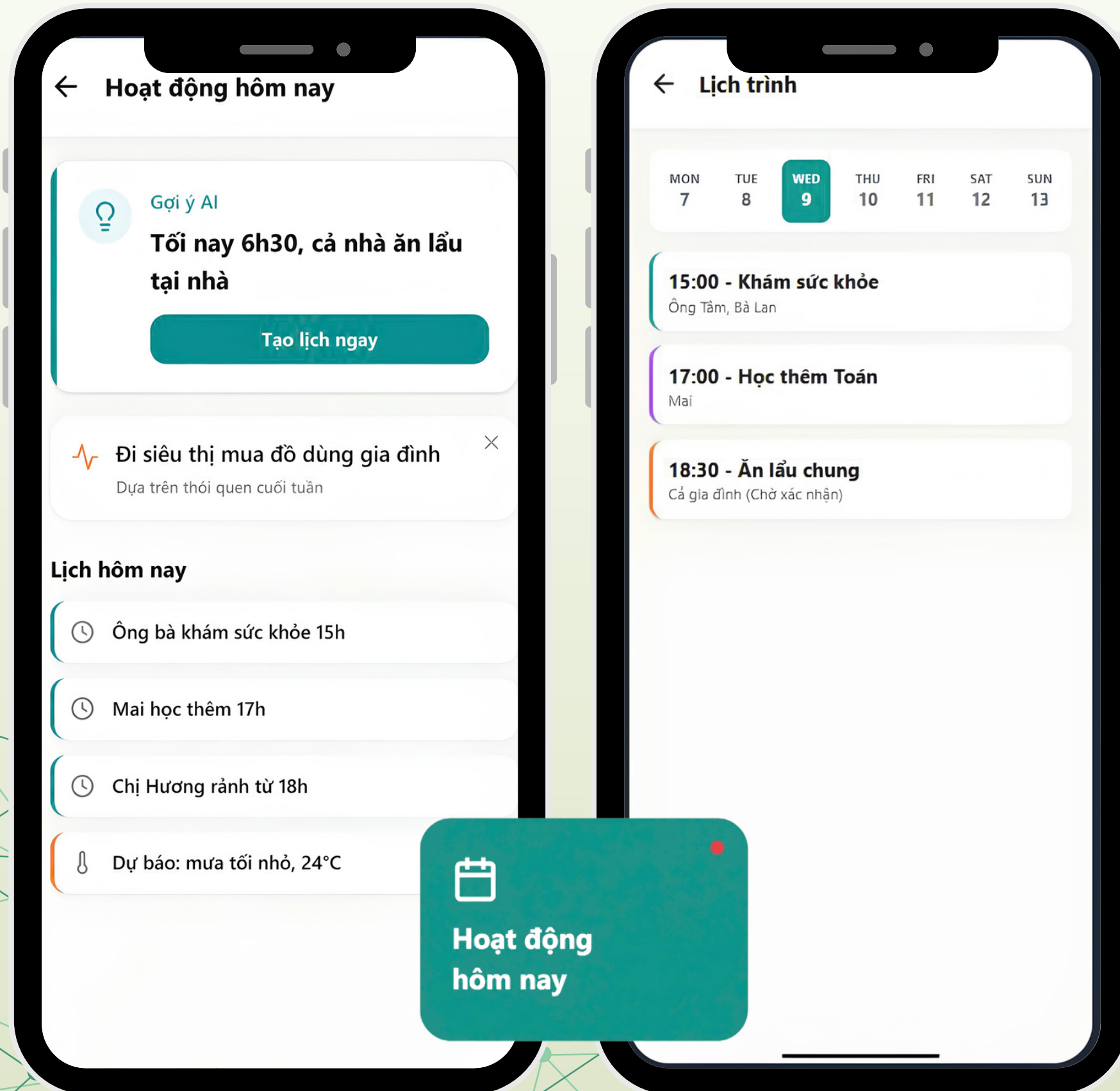
Accessible UI: Switches the app into a giant, high-contrast 4-button grid: Chat – Schedule – Care – SOS.

Family Connection Index

Togetherness Score: Turns real-world family warmth into a weekly relationship score (87%).

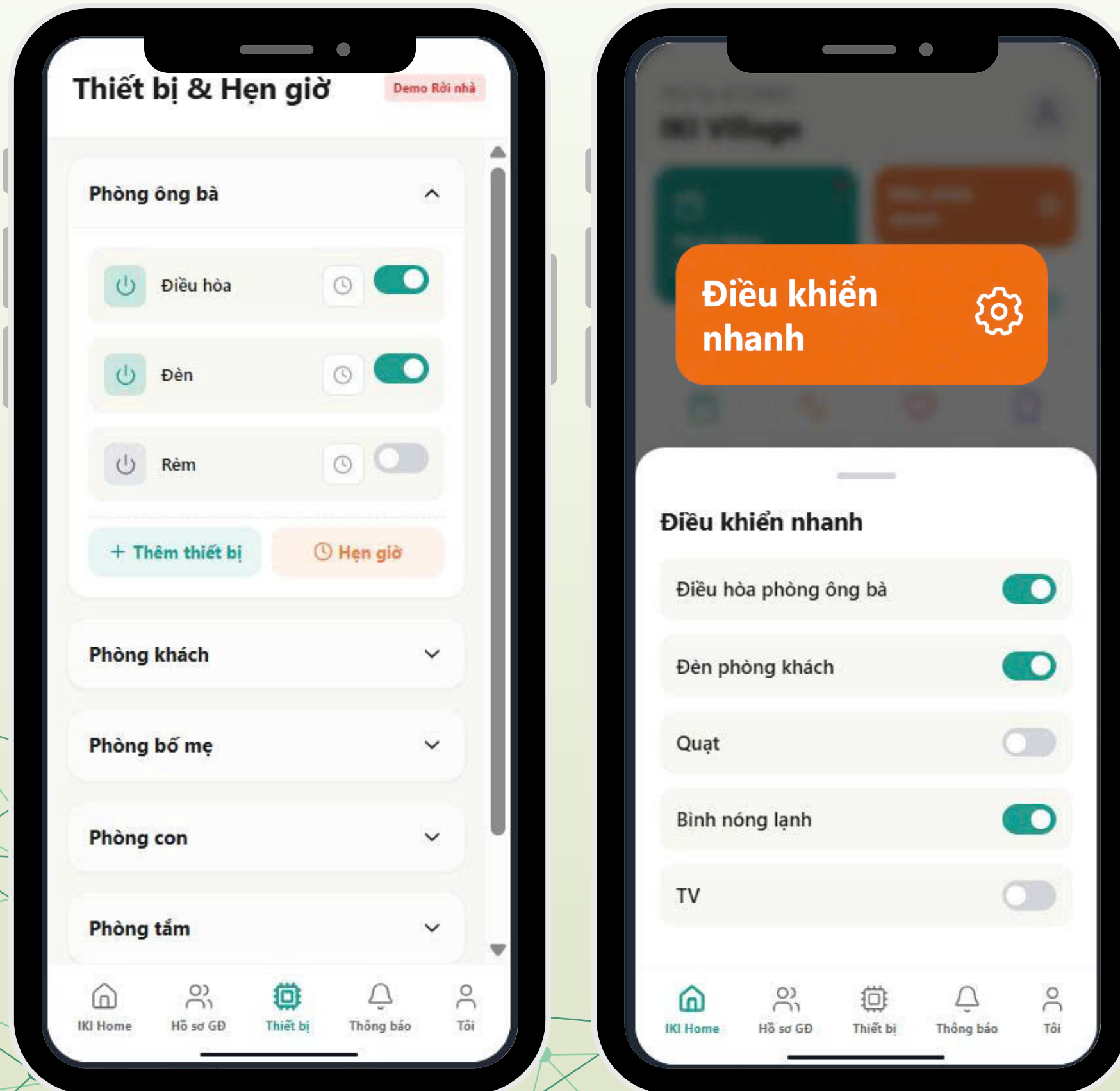
Auto-Logging: Tracks shared dinners, outdoor trips, photo vault uploads, and elder meds.

AI-Synced Family Calendar



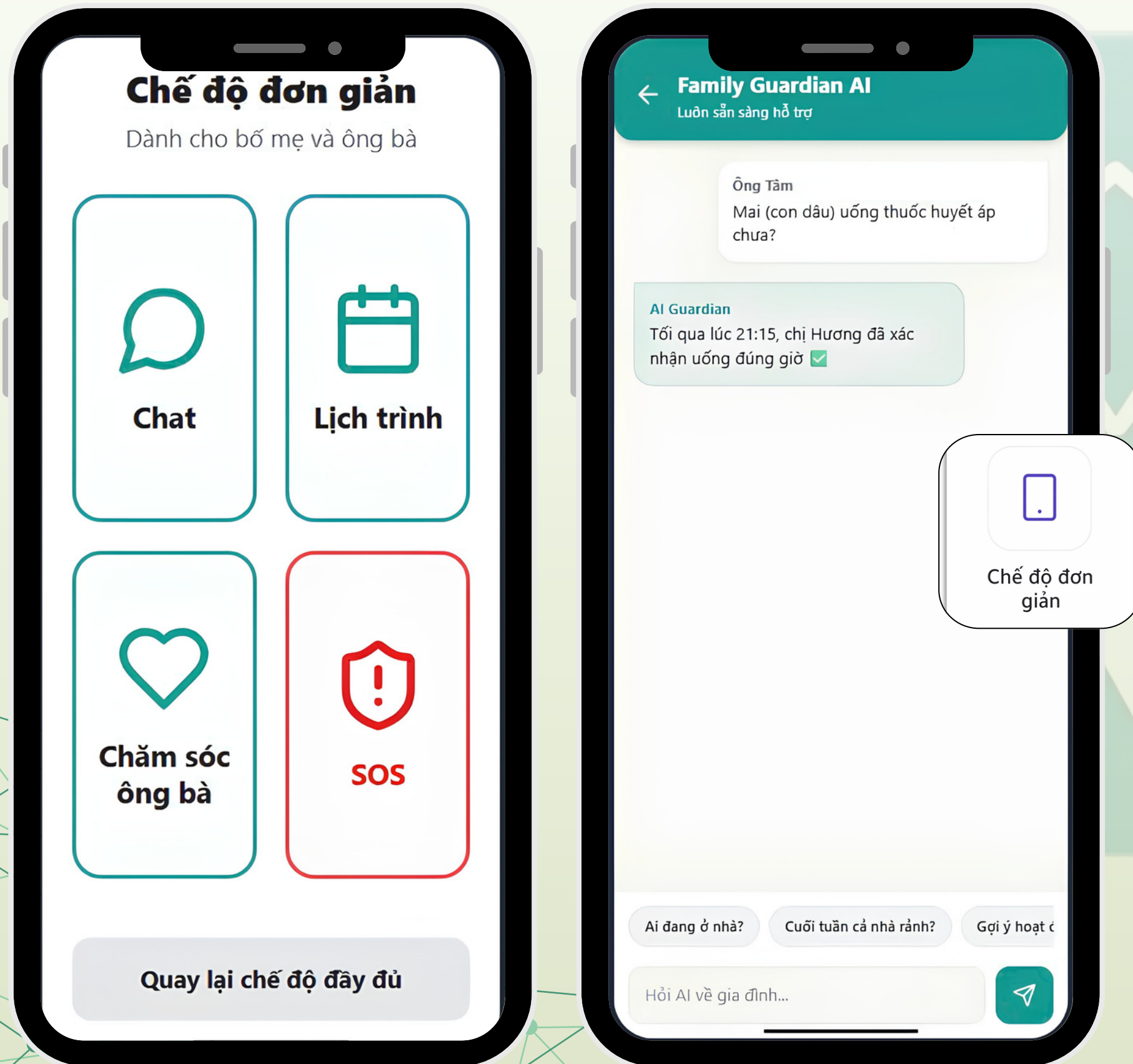
- **INPUT (Data Ingestion):** Syncs personal calendars (Google/Apple) of parents & youth + static care routines of elders.
- **PROCESS (Gap Analysis):** Overlays 3 generational timelines to detect a “Mutual Free Window” (e.g., everyone free at 18:30).
- **TRIGGER (Context Synthesis):** Combines free window + real-time context (Rainy weather + Surplus food budget) → Generates prompt: “Family Hotpot”.
- **OUTPUT (1-Tap Broadcast):** Parent taps “Create Event” → Instantly locks the slot across youth's phones & broadcasts to elders' Simple Mode view.

Appliance Control

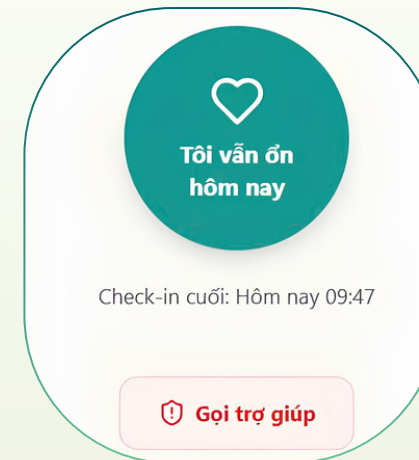


- **IoT Gateway Sync (Local Hub Link):** All physical appliances continuously report their live operational states to the central cloud gateway using low-latency protocols.
- **Zonal Database Partitioning:** Instead of a chaotic single-list view, devices are partitioned logically by room. If a working parent notices an extreme noon heatwave, they open the app and bypass manual nested settings.
- **Context-Aware Proactive Automation:** Working parents can tap Schedule to couple appliance cycles with family health data—automatically turning off the water heater after usage or adjusting the grandparents' bedroom AC to a safe temperature during late-night sleep cycles to prevent respiratory illness.

Senior Care & "Simple Mode"



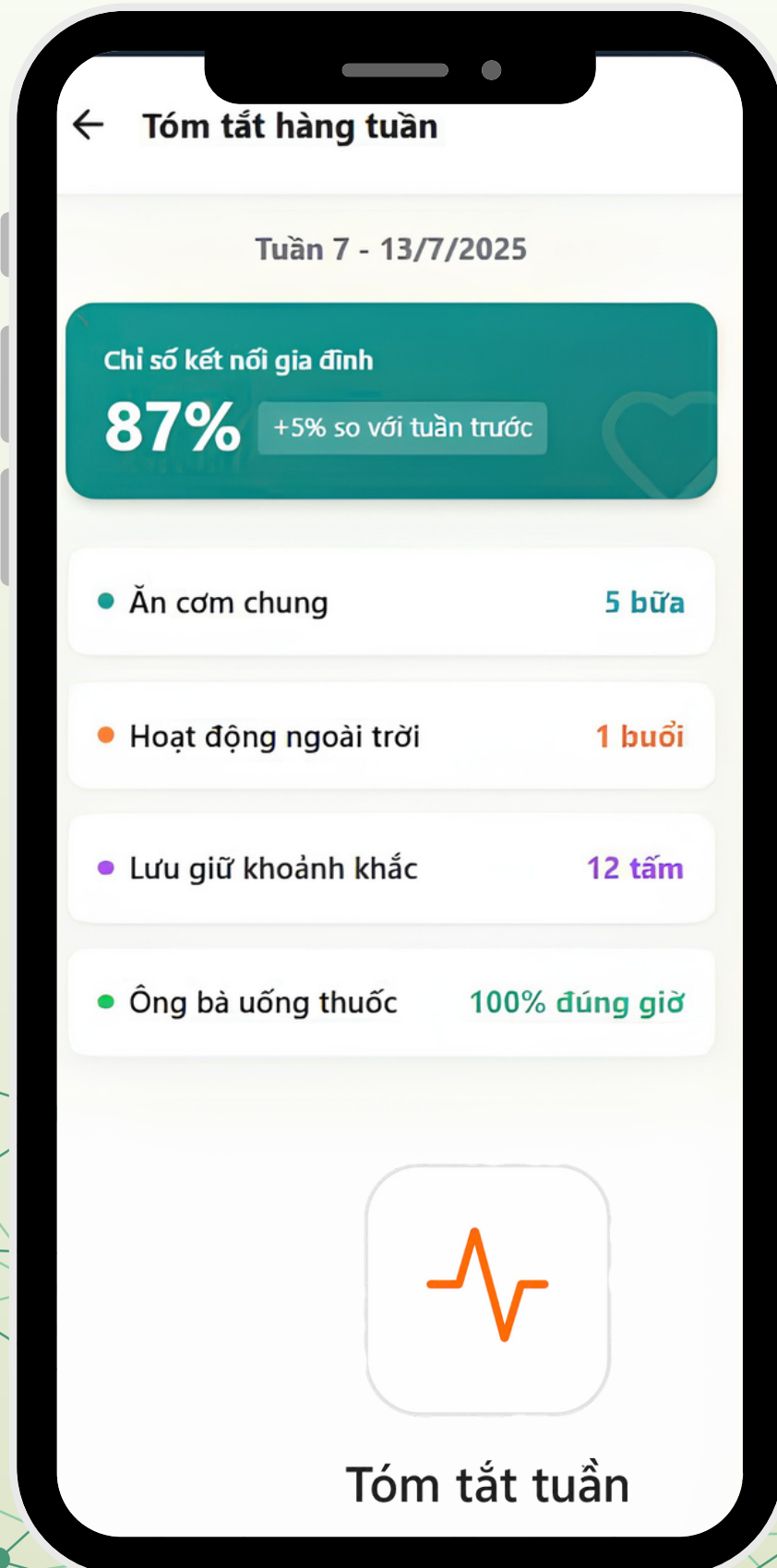
- **Reassurance Check-In Engine:** When an elder taps the "I'm fine" widget, a secure, lightweight signal updates the backend server with an immediate timestamp (e.g., Last check-in: Today 09:47), notifying working parents without requiring a phone call.



- **Low-Latency Emergency Broadcast (SOS):** Tapping the high-contrast SOS button opens a quick confirmation window. Once activated, the system bypasses silent profiles on all connected family smartphones, triggering an instant acoustic alarm and sending precise local coordinates.



Family Connection Index



- **Input (Data Logging):** Automatically captures background data from shared room IoT, photo vault uploads, and elder check-ins.
- **Process (Weighted Algorithm):** Parses activity data, giving higher priorities to multi-generational milestones (family meals and medication compliance).
- **Output (Behavioral Loop):** Higher scores unlock real-world marketplace discount coupons on the dashboard to incentivize more physical family time.

Let's look back at the moment.





IKI Living OS – MULTI-GENERATIONAL EXPERIENCE JOURNEY MAP

Connection, Peace of Mind, Automation - The Operating System for 3-Generation Vietnamese Families

	I. MORNING (Preparing)	II. DAYTIME (Remote)	III. EVENING (Gathering)	IV. WEEKEND/RITUALS (Rituals)
Persona & Actions	Mr. Tâm (74yo) Mrs. Lan (71yo) Simple-mode "I'm okay" check-in, plus medication check	Minh (45yo - Admin) (Based on insights from survey data) "Quick Controls" bottom sheet Budget chart Camera	Hương (42yo) (Based on insights from survey data) Check-in on parents' wellbeing Quick Market check-in for AI Market suggestions Emotional bonding	Mai (16yo) (Based on insights from survey data) "Capture the Moment" "Activity Suggestions" "SOS"
System Response	Simple-mode "I'm okay" check-in, plus Medication check	Notification when a device is left on after leaving home (Budget) Weekly connectivity metrics report (new)	"Join Hotpot Dinner" confirmation modal (orange) Toast: "Peace-of-mind message" "SOS" Chat Screen	Toast: "Sent to photo frame..." AI Market suggestion feed
Screens & touchpoints	Home Layer 1 (Active) "Reminder" Screen Smart Speaker (Widget)	"Family Profile" Screen Camera Screen (App) "Budget/Metrics" Report	Home Bottom Sheet "SOS" Chat Screen Smart Speaker (Reminder)	Home Layer 3 (Banner) "Album" Screen "AI Market" Screen
Emotions	Rushed icon	Mild worry icon	Bonding icon	Warmth icon
Value Ops	Better coordination Routine alignment Helps the household start the day in sync	Time awareness Metrics tracking Visibility into time spent together	Greater sense of being cared for Health reminders Elderly care	Bridging the generation gap Creating rituals Bonding through shared memories

★ IKI Living OS – Turning technology into care, so that every day becomes a memorable experience for the whole family.

Connection
(Multi-generational bonding)

Understanding
(Understanding daily routines)

Automation
(Lightening the load for the family manager)

Security
(Peace of mind & protection)

FEASIBILITY

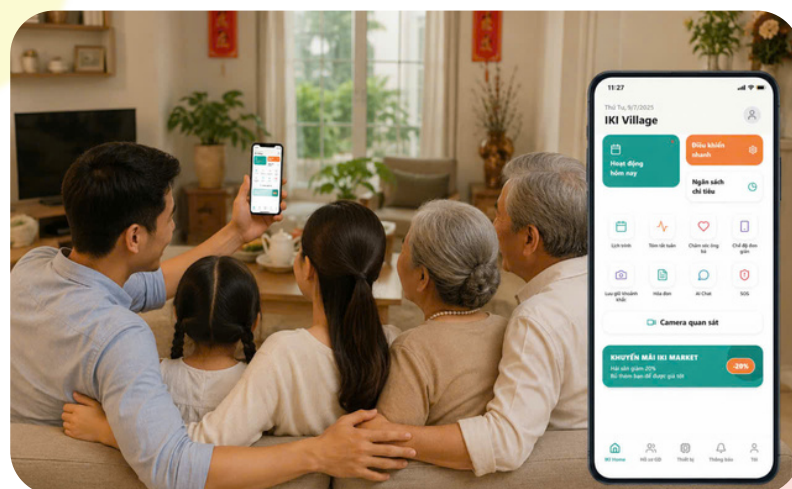
USEFULNESS

Integrates smart features, meeting the needs of multi-generational families on *a single platform*.

Reduce distraction when you have to use multiple apps.

Support family bonding and taking care of loved ones.

User-friendly interface, **simple mode** suitable for both elderly people and kids



FEASIBILITY

Iki village uses common connection standards like **Wi-Fi, Bluetooth LE, and Matter**, which have been commercialized.

Camera, sensors, and positioning are stable technologies, ready to be integrated

Display the day's schedule, AI suggests suitable activities to increase engagement among members.



ACHIEVABILITY

The mockup and functions are clearly designed, ready for the development stage

AI Family aims to partner with Smart Home providers

Make revenue, earn commissions from IKI Market



CREATIVITY

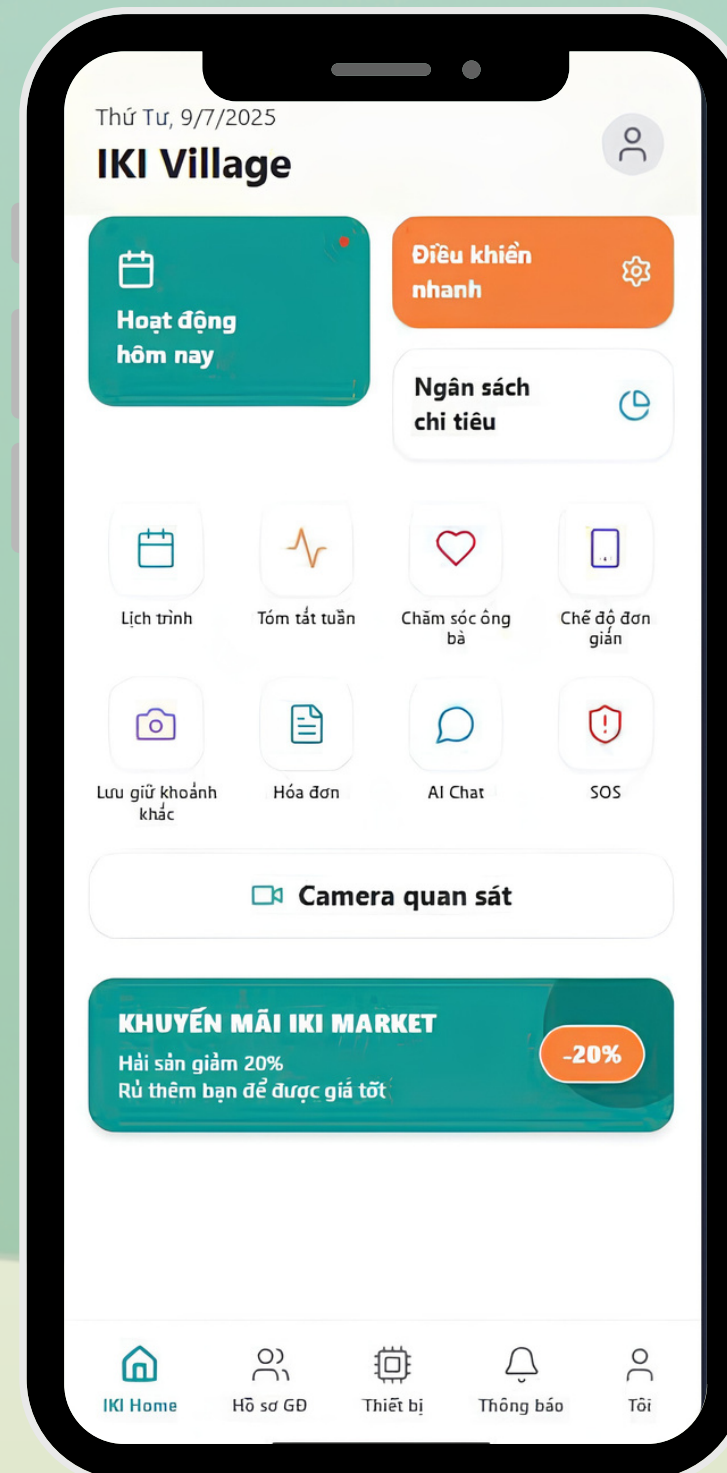
New mindset: Focus on protecting and connecting multi-generational families (instead of just automating devices).

Minimalist interface mode + emergency SOS button specifically for the elderly.

PRACTICALITY

Solving Pain Points: Monitoring the safety of grandparents, keeping track of kids' class schedules, reminding about electricity usage, and managing expenses.

Core Value: Bringing complete peace of mind and improving quality of life all through a single app.



UI/UX EXPERIENCE

Visual: The bottom navigation bar (Bottom Nav) helps switch features smoothly without clutter.

Optimized interaction: Quick control buttons and smart notification filters, suitable for both kids and the elderly.

COMMERCIAL

Exploiting IKI Market: Revenue from ads, cross-selling commissions, and special privilege offers.

Expansion roadmap: Developing the AI Family hardware segment, device maintenance packages, and professional home care services.

Closing



Beyond the tech mark:

IKI Village isn't just device control software; it's the tech thread that understands and connects generations at home.

Friendly and easy to use: Bringing modern technology closer to the elderly through simplicity, safety, and intuitiveness.

Improving family life quality:

Replace everyday worries and scattered tasks with a comprehensive remote management ecosystem.

Optimize time for your family: When technology automatically runs and protects the home, people will have more quality time to spend together.

Human-centered technology – Putting people at the center

