# Aging At Home Solution

## Background and Target Features

Home automation systems designed to address the needs of aging at home offer numerous benefits, enhancing safety, convenience, and quality of life for older adults. Here are some key advantages:

1. \*\*Increased Safety\*\*:

- \*\*Fall Detection and Prevention\*\*: Sensors can detect falls and alert caregivers or emergency services.

- \*\*Emergency Response Systems\*\*: Panic buttons and automatic alerts ensure timely assistance.

- \*\*Smoke and Carbon Monoxide Detectors\*\*: Integrated alarms can alert both the resident and remote caregivers.

2. \*\*Enhanced Convenience\*\*:

- \*\*Voice-Controlled Devices\*\*: Simplifies the use of appliances, lights, and entertainment systems without needing to manually operate them.

- \*\*Automated Lighting\*\*: Motion-activated lights reduce the risk of trips and falls during nighttime.

- \*\*Smart Thermostats\*\*: Automatically adjust temperatures for comfort without manual intervention.

3. \*\*Health Monitoring\*\*:

- \*\*Medication Reminders\*\*: Alerts for taking medications on time.

- \*\*Vital Signs Monitoring\*\*: Track health metrics like heart rate and blood pressure, with data sent to healthcare providers if needed.

4. \*\*Social Connectivity\*\*:

- \*\*Video Calling and Messaging\*\*: Easily stay in touch with family and friends.

- \*\*Virtual Assistants\*\*: Help manage schedules, reminders, and social activities.

5. \*\*Ease of Daily Tasks\*\*:

- \*\*Automated Housekeeping\*\*: Robot vacuums and smart laundry systems reduce the physical strain of maintaining a household.

- \*\*Grocery and Meal Delivery Services\*\*: Integrated apps can facilitate ordering necessities and meals.

6. \*\*Energy Efficiency\*\*:

- \*\*Smart Appliances\*\*: Optimize energy use, lowering utility bills and reducing the need for manual adjustments.

7. \*\*Peace of Mind for Caregivers\*\*:

- \*\*Remote Monitoring\*\*: Family members and caregivers can monitor the well-being of their loved ones through connected devices and apps.

- \*\*Activity Tracking\*\*: Ensures regular movement and activity, indicating that the resident is safe and active.

By integrating these technologies, home automation systems provide a safer, more comfortable, and supportive environment for aging individuals, enabling them to maintain independence while staying connected with their support network.

## Demo Scenarios (create video/demo scripts)

1. Safety and security scenarios
   * Smoke, CO, Water leak
   * Medical emergency
2. Medication reminders
3. Voice Control
   * Lights, door lock, alarm
4. Monitoring scenarios
   * Temperature
5. Caretaker scenarios
   * Access control (door lock)
   * Monitoring environment conditions
   * Activity tracking
6. Energy efficiency and power monitoring
7. Convenience scenarios
   * Lighting
   * Automations like goodnight and good morning. Leave/Arrive home.
   * Smart appliances
     + Washer, dryer, dishwasher done
8. Simplified management of the system with EffortlessHome’s services:
   * Secure, remote access
   * Battery low reminders and TODO’s
   * Automated updates and monthly enhancements
   * Report Offline devices to proactively resolve
   * System backup of the system and motion/person image captures (local and cloud)
   * System Maintenance and upgrades

#### Future Capabilities To Add

1. Health Monitoring
   1. Vital signs
2. Video and messaging connectivity
3. Sensors can detect falls and alert caregivers or emergency services
4. Household cleaning and maintenance
   1. Vacuums
   2. Mower
   3. Sprinklers and irrigation
   4. Pool/Hot tub monitoring and control

### Product Intro Video Script (< 30 seconds)

Intro screen with logo and product name. Introducing “EffortlessHome Aging At Home Solutions”

EffortlessHome’s aging at home solution uses smart home technology and customized capabilities to enable older adults to live more comfortably in their homes.

Schedules and Reminders for taking medications (show screenshots + Historical view

Caretakers and family can monitor the home environment: motion, presence, temperature and humidity, medication history, etc. Owner can set the access level and what the caretaker can see on their dashboard.

* Temp history
* Movement history
* Security Alarm triggered notification

Voice control. Alexa, goodnight. Hey Siri, good morning.

Security and Access control

* Doorbell camera person notification (show screenshot)
* “Alexa, unlock my front door”

Medical emergency alarm. Monitored 24x7x365 by Noonlight.

* Show screen shot of app triggering alarm AND show text on screen “’Alexa, I’m having a medical emergency”

Convenience to reduce movement (lights, appliances, etc)

* OK Google, turn on my lights.
* Show text in voice bubble: “The washing machine is done”

Ease of use and maintenance, upgrades, batteries, etc.

* Show screenshot of batteries low adding to TODO list
* Add vocal and text about automatic system and firmware updates

Summary: With EffortlessHome’s aging at home solutions, older adults can live more convenient, secure, safe and efficient lives at home. Their loved ones and caretakers can get peace of mind in being able to monitor from whereever they are in the world. And these capabilities are available now at a surprisingly affordable price.

Cut screen with logo and product name

### Demo Script