

User stories

1. Setting Boundaries (Simple/Complex)

As a user or caregiver
I want to set safe boundaries on a map
So that I can move around without accidentally wandering too far.

Acceptance Criteria

User can choose between simple and complex boundary modes.

Boundaries can be drawn or adjusted on an interactive map.

The app clearly confirms when boundaries are saved.

2. Toggling Boundary Complexity

As a user with memory difficulties
I want to toggle between simple and complex boundary layouts
So that the guidance adapts to how predictable or flexible the user's movements are.

Acceptance Criteria

A toggle switch changes the boundary-setting mode.

Simple mode allows large, easy shapes.

Complex mode allows multi-segment or more precise shapes.

Mode switch is confirmed visually.

3. Emergency Help Button

As a user who may get confused due to mental issues
I want a clear help button I can press at any time
So that my emergency contacts are notified and I can be guided back to safety.

Acceptance Criteria

Help button is visible on the home page.

Pressing it sends an alert to selected contacts.

The app optionally shows return-home instructions.

4. Managing Emergency Contacts

As a user or caregiver
I want to set or update immediate and secondary emergency contacts
So that the right people are contacted during an emergency.

Acceptance Criteria

Users can add, edit, or remove emergency contacts.

Immediate and secondary slots are clearly labelled.

App confirms when contacts are successfully updated.

5. AI Mode Guidance

As a user

I want to enable an AI mode that sets my boundaries for me -

So that I can have some more freedom due to the flexibility

Acceptance Criteria

AI mode can be turned on/off via settings.

When enabled, the AI boundaries are formed using users daily/weekly habits

User Flow

1. User Flow — Setting Boundaries (Simple or Complex)

Entry point

User opens the Home Page

User taps the Settings (gear) icon

User selects Set Boundaries

Flow

App displays the boundary selection screen with Simple and Complex options.

User chooses:

Simple boundaries → taken to simple boundary map

Complex boundaries → taken to complex boundary map

Interactive map loads with the chosen mode.

User draws or taps areas to define the safe zone.

User adjusts shapes until satisfied.

User taps Finish and Set.

App confirms boundaries are saved and returns to Settings or Home.

Outcome

Boundaries are stored in the system and used for alerts.

2. User Flow — Toggling Boundary Complexity

Entry point

User opens Settings Page

Flow

User views the Simple / Complex boundaries section.

User toggles the Complex Mode switch.

App updates the boundary mode state immediately.

If switching to complex mode:

App may prompt: “Existing simple boundaries will be converted. Continue?”

User confirms.

App updates stored boundary mode and visual indicators.

Outcome

Boundary mode is switched and will determine what type of boundaries are being used by the user

3. User Flow — Emergency Help Button

Entry point

User is on Home Page

Flow

User taps the Help button.

App shows a large confirmation (“Are you sure you need help?”).

User confirms.

App immediately:

Sends a message to Immediate Contact

Sends secondary notifications if relevant

Shares the user’s location

App displays guidance options:

“Guide me home”

“Call my contact”

User follows instructions or waits for help.

Outcome

Emergency contacts are alerted and the user receives guidance.

4. User Flow — Managing Emergency Contacts

Entry point

User opens Settings Page

User selects Contacts

Flow

App displays two fields:

Immediate contact

Secondary contact

User taps a field to edit.

App shows contact entry screen with options:

Add new

Pick from phone contacts

Edit existing

User enters or adjusts name & phone number.

User taps Save.

App validates input and returns to Contacts screen.

Updated contacts are displayed.

Outcome

Emergency contacts are stored and used for help alerts.

5. User Flow — Enabling AI Mode

Entry point

User opens Settings Page

Flow

User scrolls to AI Mode toggle.

User switches AI Mode ON.

App checks if there is any data to generate boundaries on
If not: notified user "Ai mode cannot activate ; insufficient data
If available:

AI boundaries are formed

App shows confirmation: "AI mode active."