

LARA - Life Aid & Retrieval Assistant

LARA: Guiding Light in the Journey of Aging-Related Memory Loss

Heart disease? We've advanced. Cancer? We've made leaps. But aging-related memory loss stands as a silent challenge, touching hearts and blurring past joys. For those facing it, once familiar moments seem distant.

Meet LARA – an Al tailored for those battling aging-related memory challenges. LARA understands, guides, and supports, offering an anchor in shifting sands. More than tech, LARA is a beacon of hope.

Together, let's navigate this journey with clarity and compassion.

LARA provides comprehensive data collection interface

New User Onboarding:

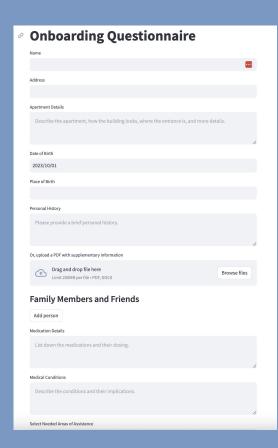
 On-boarded by filling a comprehensive survey, which provides our system with the key information about the user, including relatives, medical conditions and other key personal information

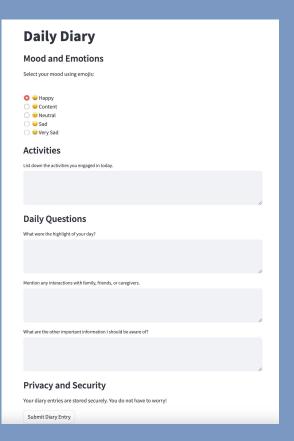
Daily Diary:

 Users are prompted to fill a daily diary, which details their activities and updates. This is a key functionality for ongoing short-term memory support

Comprehensive data collection interface to enhance performace

Exemplary Parts of
Onboarding Questionnaire
and the Daily Diary





LARA provides users with Multi-modal Assistance

Chatting and Speaking with Lara:

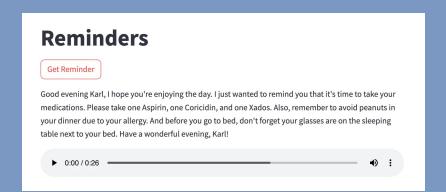
- Users can leverage all LARA's knowledge about them via chat and speech interface
- Lara always responds both in text and speech for increased communication ability
- Conversations with LARA are chained as a chat would be
- LARA provides emergency assistance
 - Contacting family & friends
 - Psychological support

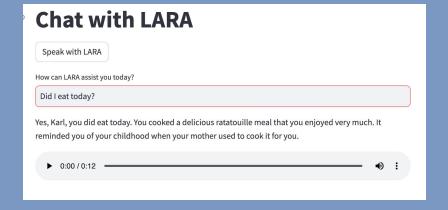
Daily Reminders:

- Medical reminders when to take medication
- Allergy and food limitations reminders remind users about key restrictions in their lives

LARA provides users with Multi-modal Assistance

Examples of interactions with LARA





Upcoming features

- Mobile App LARA is intended to be used on all personal devices
- Continuous location assistance accessible navigation for elderly
- **Text and call** for easy communication with family and friends
- Acoustic reminders by setting alarms
- Emotional support during depression, anxiety and confusion
- Probabilistic model as a **Digital Twin** of the patient
 - Contextual inference
 - Attention-augmentation on salient features and emergency handling (e.g. home-model, doctor-model, travel-model)

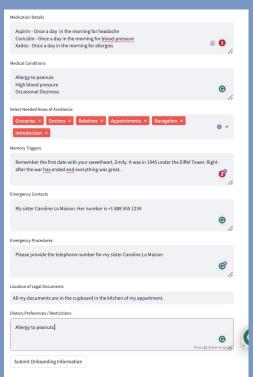
Thank you for reading!

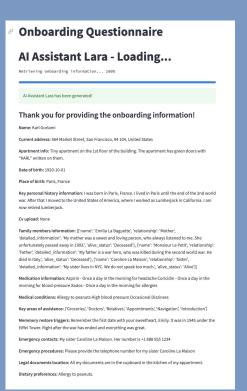
BACKUP SLIDES

Backup - Mock Up Configuration - General Info









Backup - Mock Up Configuration - Daily Information

