स्मरण | SMARAN

ENHANCING THE FUTURE OF ELDER CARE

Providing Quality Care for Our Beloved Seniors

MOTIVATION/ PROBLEM

INCREASE IN ELDERLY POPULATION

1 billion elderly in 2019. And the population & proportion will only increase. (WHO)

INCREASE IN DEMENTIA CASES
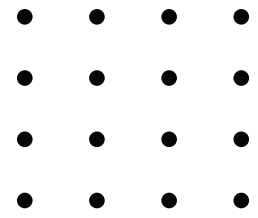
55 million in 2020 with new case every 3 seconds. (ADI)

RISE IN CAREGIVING INDUSTRY

Caregiving industry rising from $1.3 trillion in 2019 to $2.8 trillion by 2030. (ADI)

LACK OF REAL TIME MONITORING
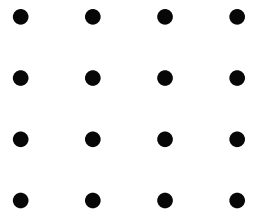
Real-Time and Full-Time monitoring of patient's health is unfeasible manually

CHALLENGES IN ELDER CARE

Physical

Decrease in Capacity to Carry Out Physical Tasks

Emotional

Increased Susceptibility to Depression, Anxiety and Stress

Cognitive

Memory Loss, Decrease in Focus & Problem Solving

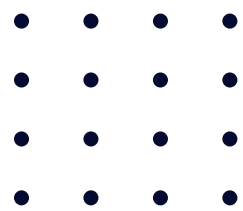# ROLE OF PROFESSIONAL CAREGIVERS

- Analyze the Health
- Remind Medications
- Cognitive Stimulation
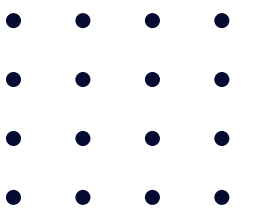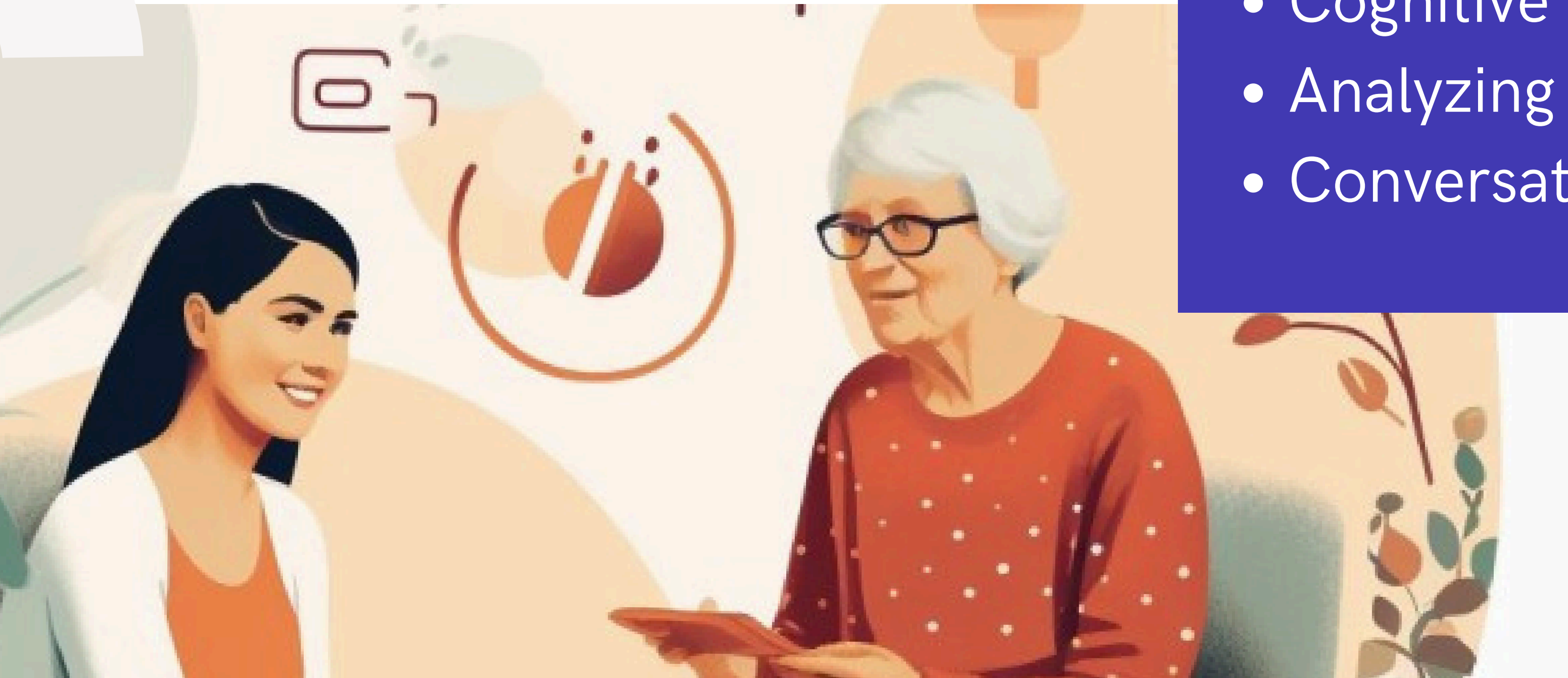- Engage in Conversations
- Physical Care and Mobility Assistance

WHAT IS SMARAN?

- **Your To-Do Assistant**
- **Your Pastime**
- **Your AI Real-Time Health Monitor**
- **Your AI Psychologist**

FEATURES OF SMARAN

- Daily Reminder
- Voice assisted To-Do
- Medication Reminder
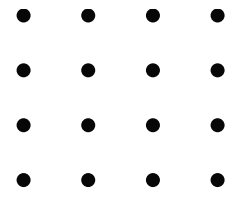- Cognitive Stimulation
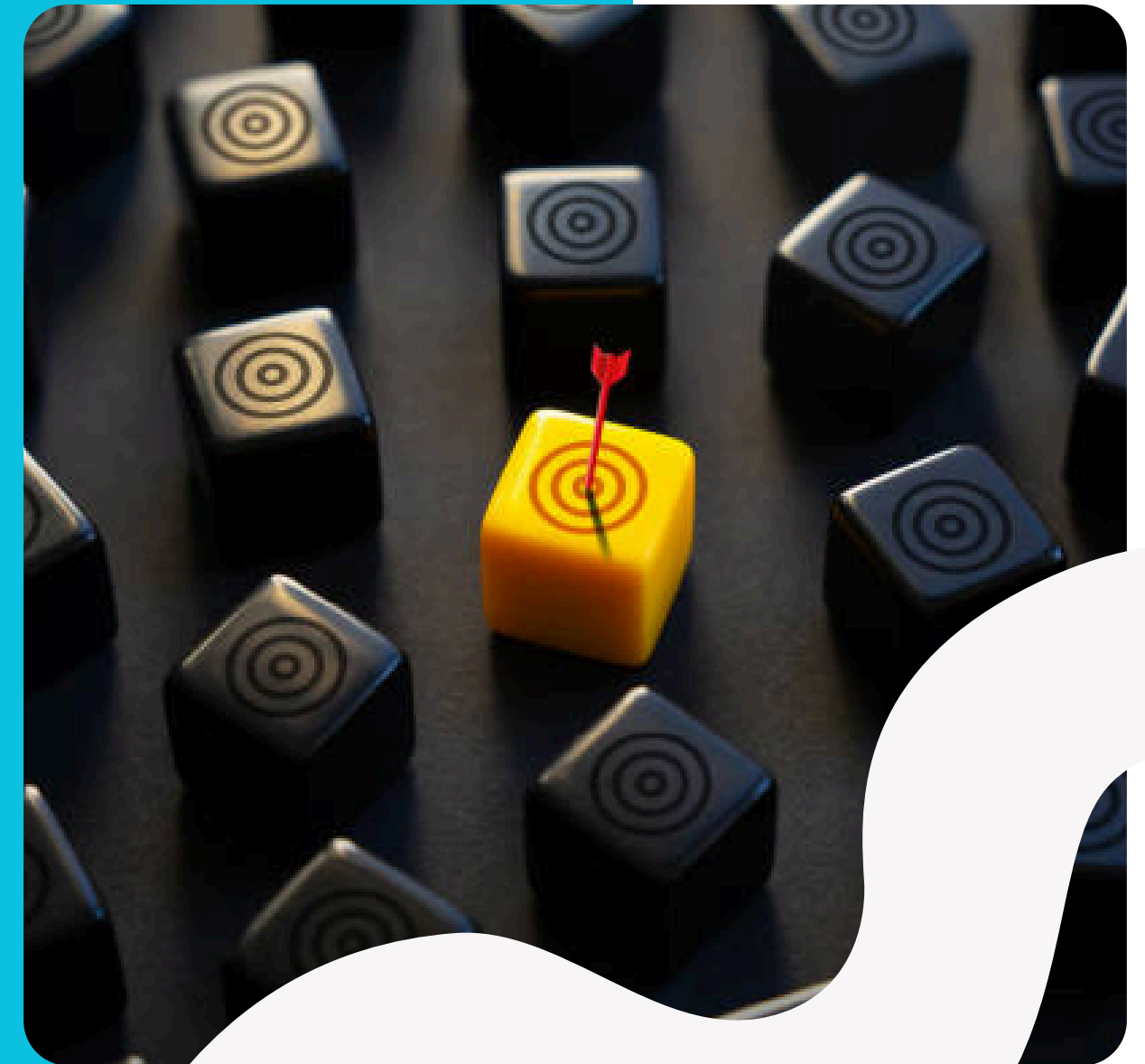- Analyzing Health
- Conversation

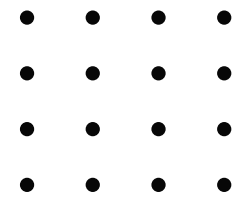# Elderly with early Dementia (Upto Stage 4)

- Keeps Them Cognitively Stimulated
- Helps Keep Track of Tasks
- Get Reminder for Tasks
- Tracks their Mental Status
- Alerts Guardians when Concerning

TARGET AUDIENCE

MARKET POTENTIAL

- Over 55 million dementia cases, with 10 million new cases/year
- Dementia being a leading cause of disability and dependency among the elderly, requiring innovative care solutions to reduce caregiver burdens
- Potential Partnerships with Healthcare Providers with rise in market for Caregivers
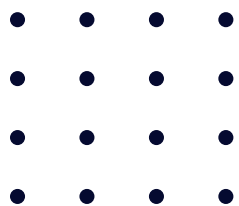
BUSINESS MODEL

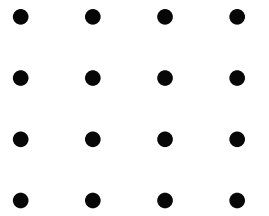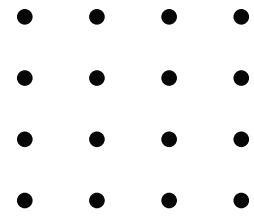|	
Freemium Model	Add more games, Unlock newer analytics for one-time purchase
Advertisements	Add non-intrusive ads when not using important for
Data-Driven Research Grants	On user's consent, provide data of users for research by anonymizing their profile

TECHNICAL IMPLEMENTATION

- **REACT-NATIVE**
- **EXPRESS**
- **MONGO-DB**
- **FAST-API**
- **WHISPER**
- **LLM**

FUTURE IMPLEMENTATION

Multiple Language Support

Adding international languages for better accessibility

Proper Screening Implementation

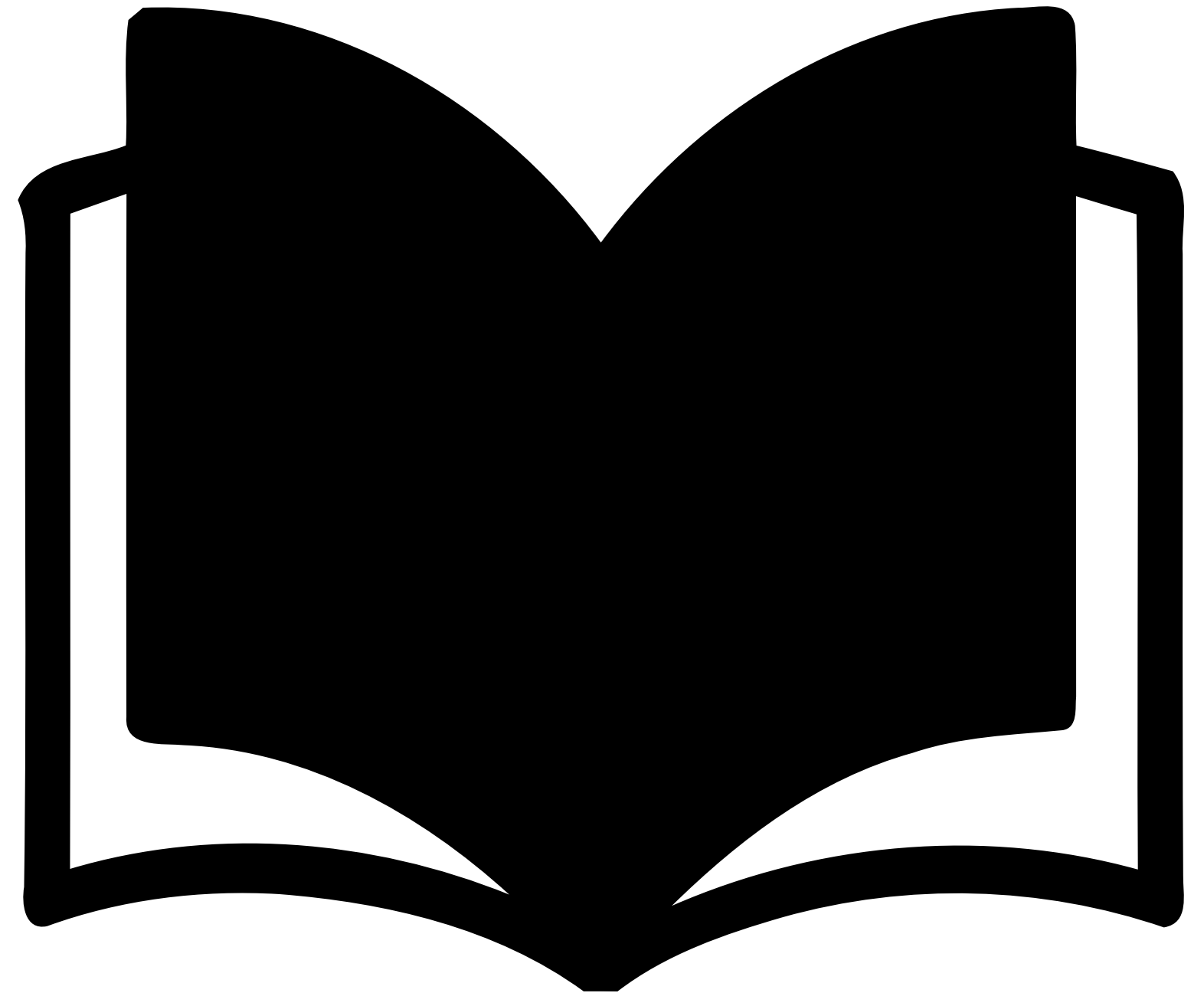Integrating proper MMSE, MoCA, TMT tests for valid screening

Collaboration with Caregivers

Collaboration with and Hiring of caregivers when the user needs.

REFERENCES

Engaging in Puzzles like Sudoku or Jigsaw can help maintain memory, attention, and processing speed in people with mild cognitive impairment or dementia. (Article1)

Research has shown a positive correlation between crossword puzzles and daily life functions, especially for people with mild cognitive impairment or dementia. (Article2)

DEMO &

HTTPS://DRIVE.GOOGLE.COM/DRIVE/FOLDERS/1FY4AHF
UYDSYW8KOV11EMCALL8MQFDVFG?USP=SHARING

THANK YOU!