



lumenary.

Assisted living, Assistive technology

JUNE 17, 2019

Talking Points

Design Problem
User Research and Analysis
Design and Justification
Heuristics and Testing
The Next Step

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Maintaining Standard of Living and providing an all-inclusive app for the needs of patients with Alzheimer's Disease



Research Methods

Secondary Research Competitive Product Survey

Objectives

Develop an educated perspective on the effects of Alzheimer's Disease and how current apps deal with issues

Interviews

Objectives

View characteristics and perceptions of users and how our functionalities may affect burden placed upon patient and caregivers

Major Design Decisions



Simplicity



User Control



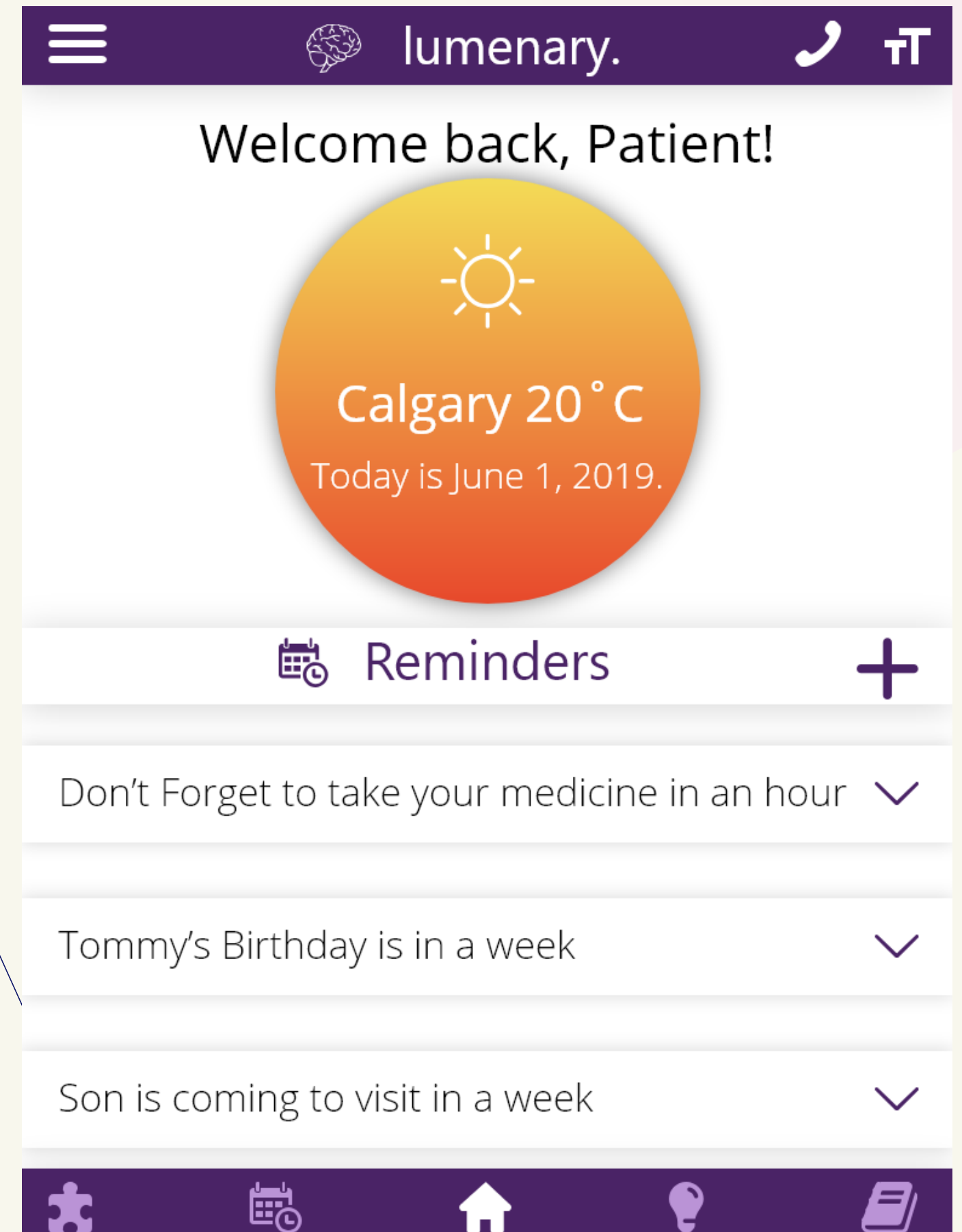
Familiarity

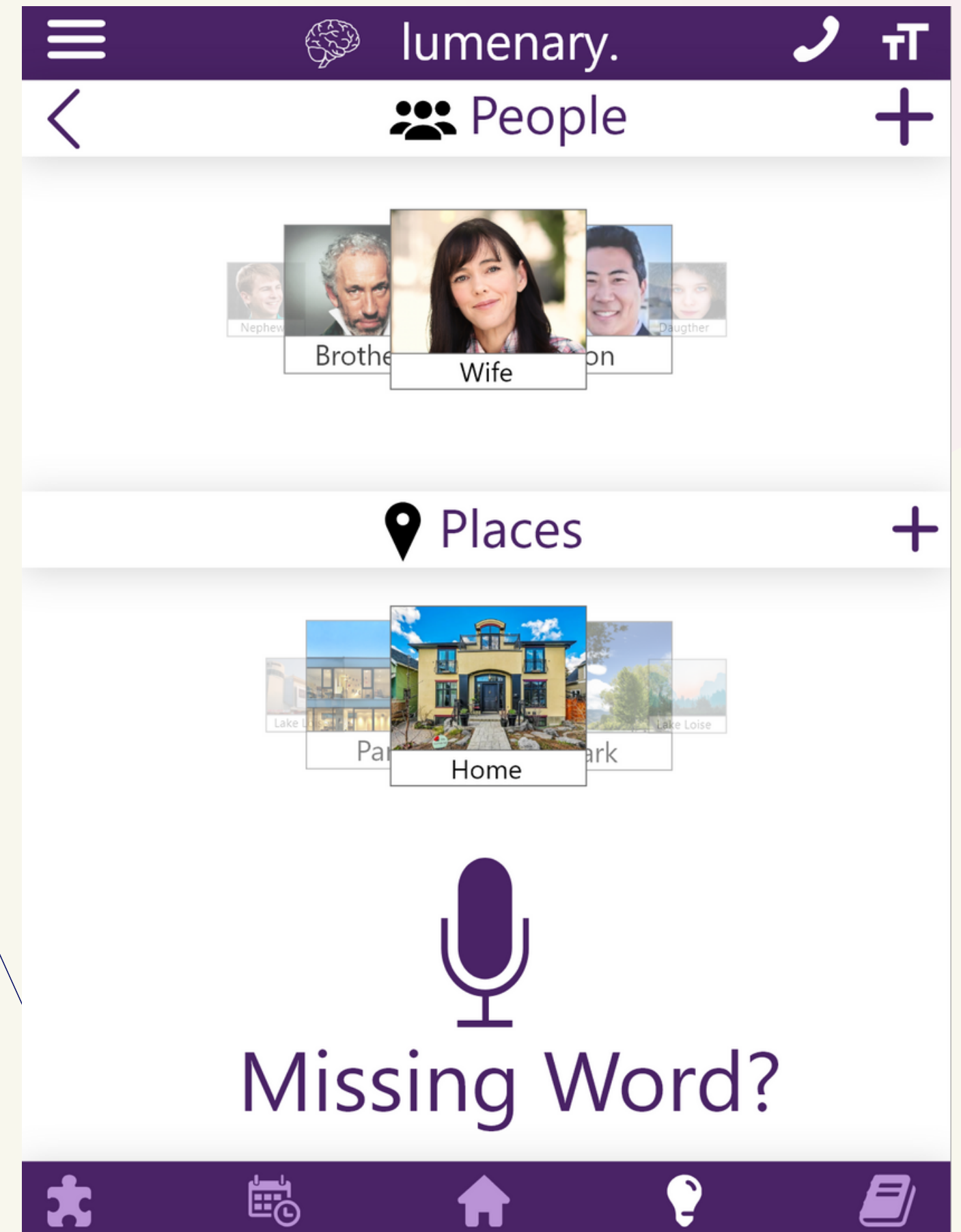


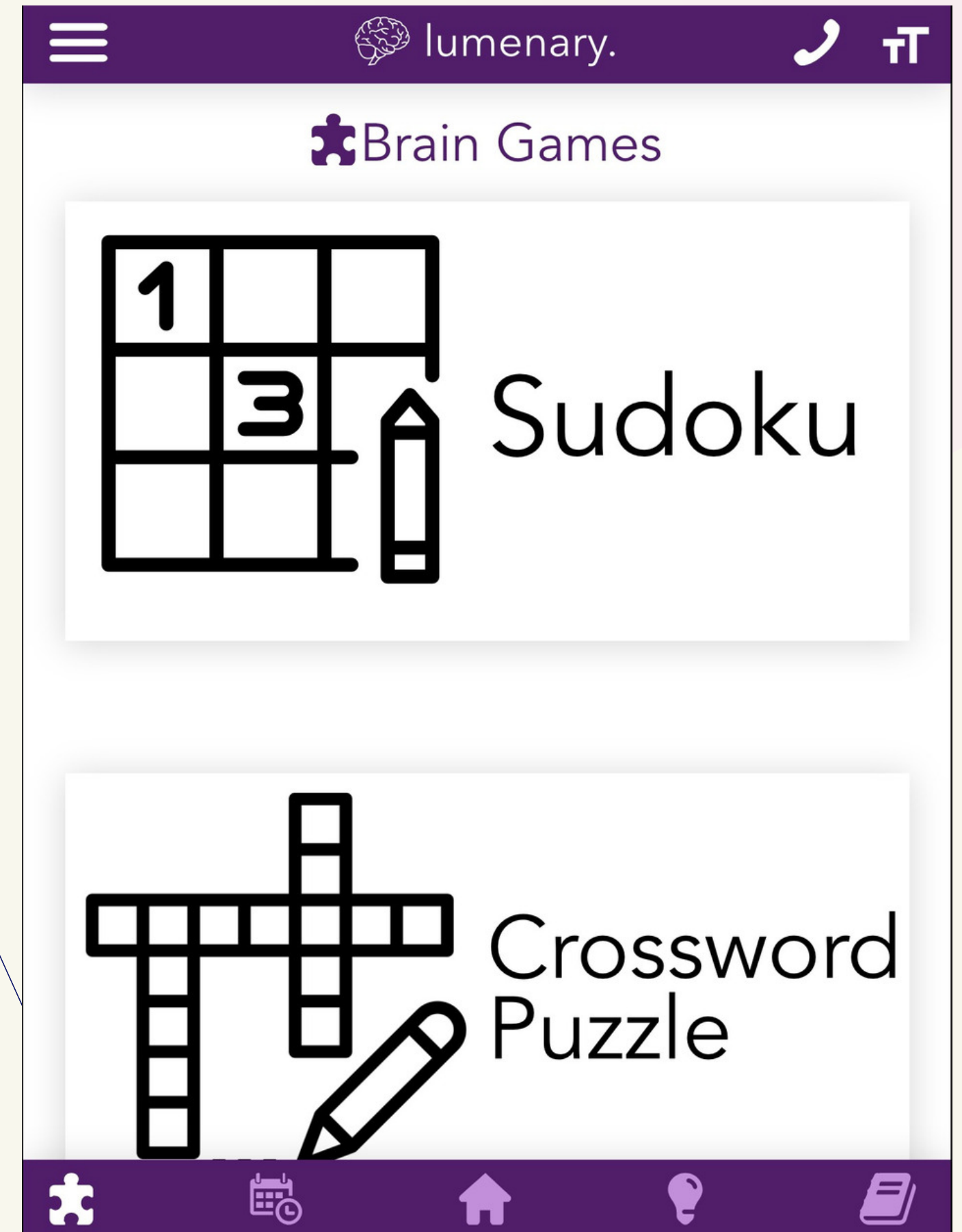
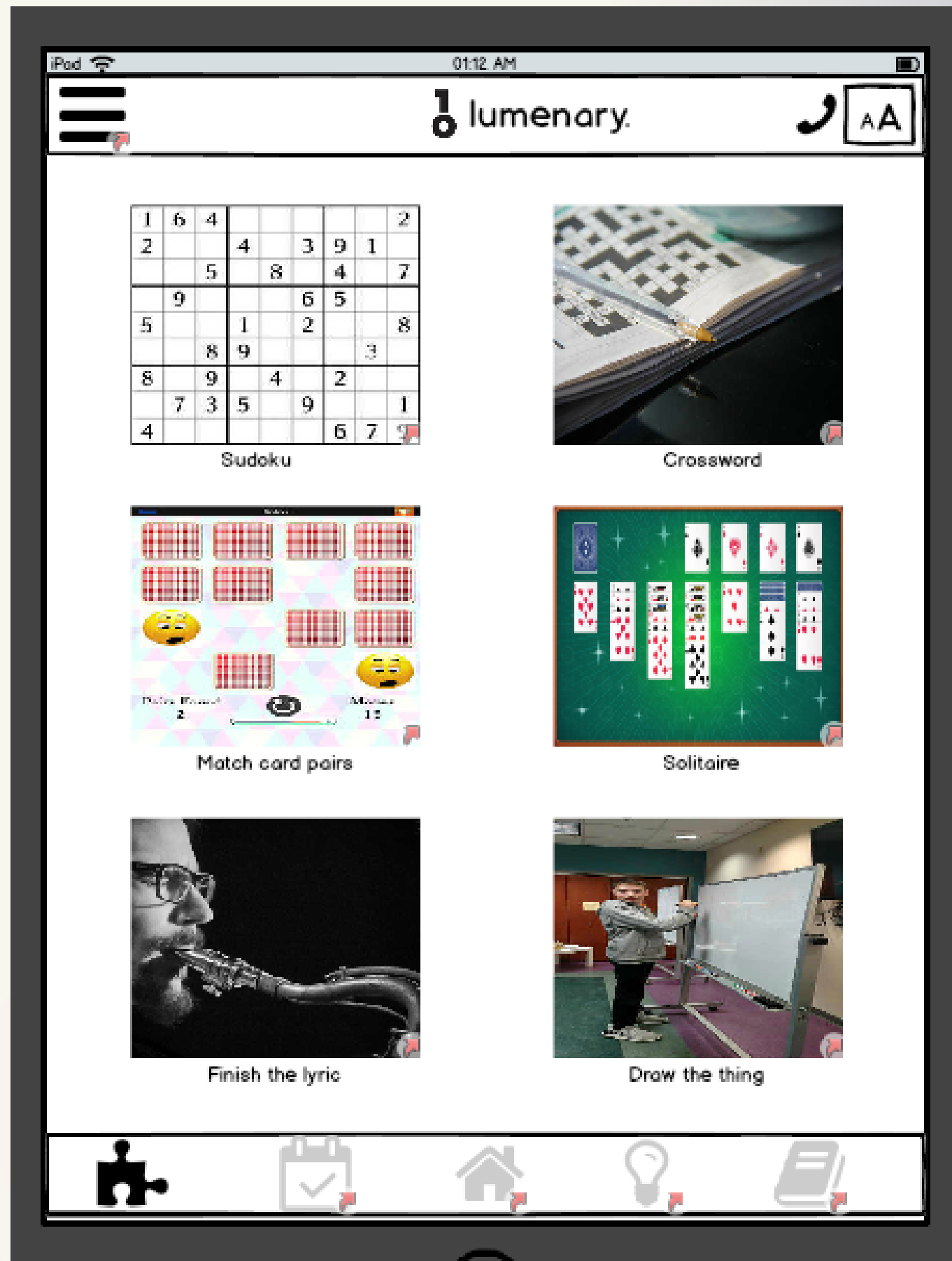
Discarded Functionalities

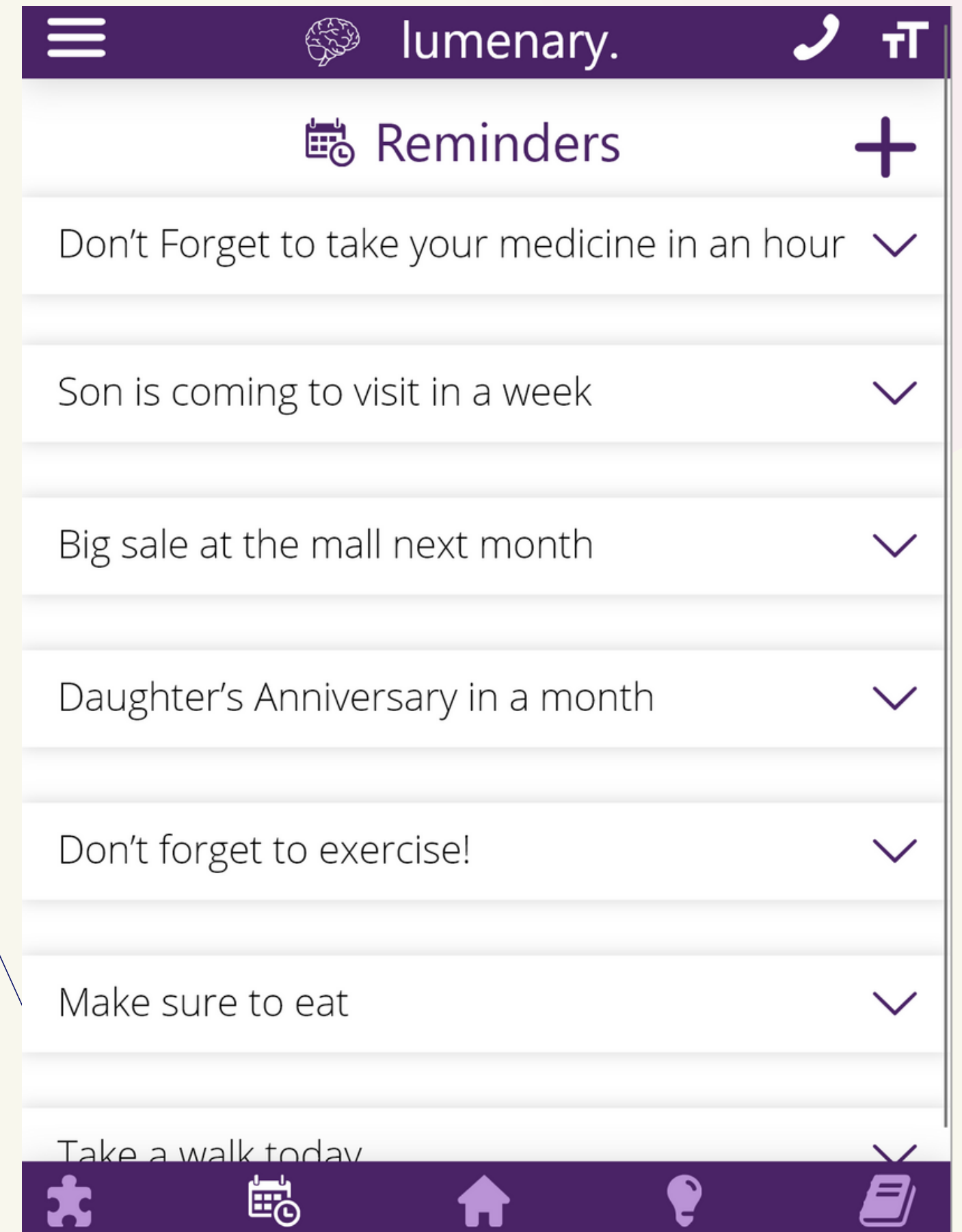
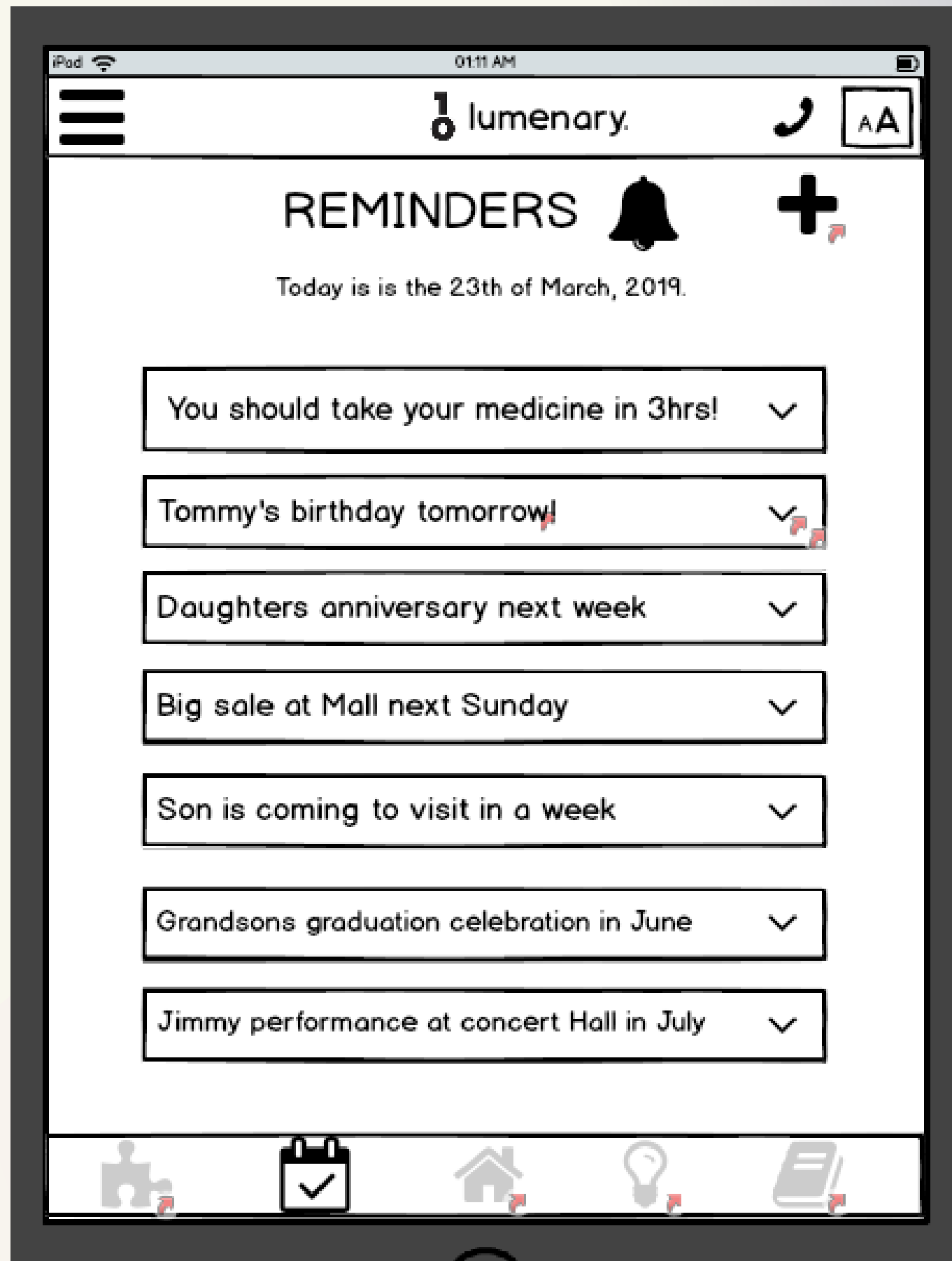


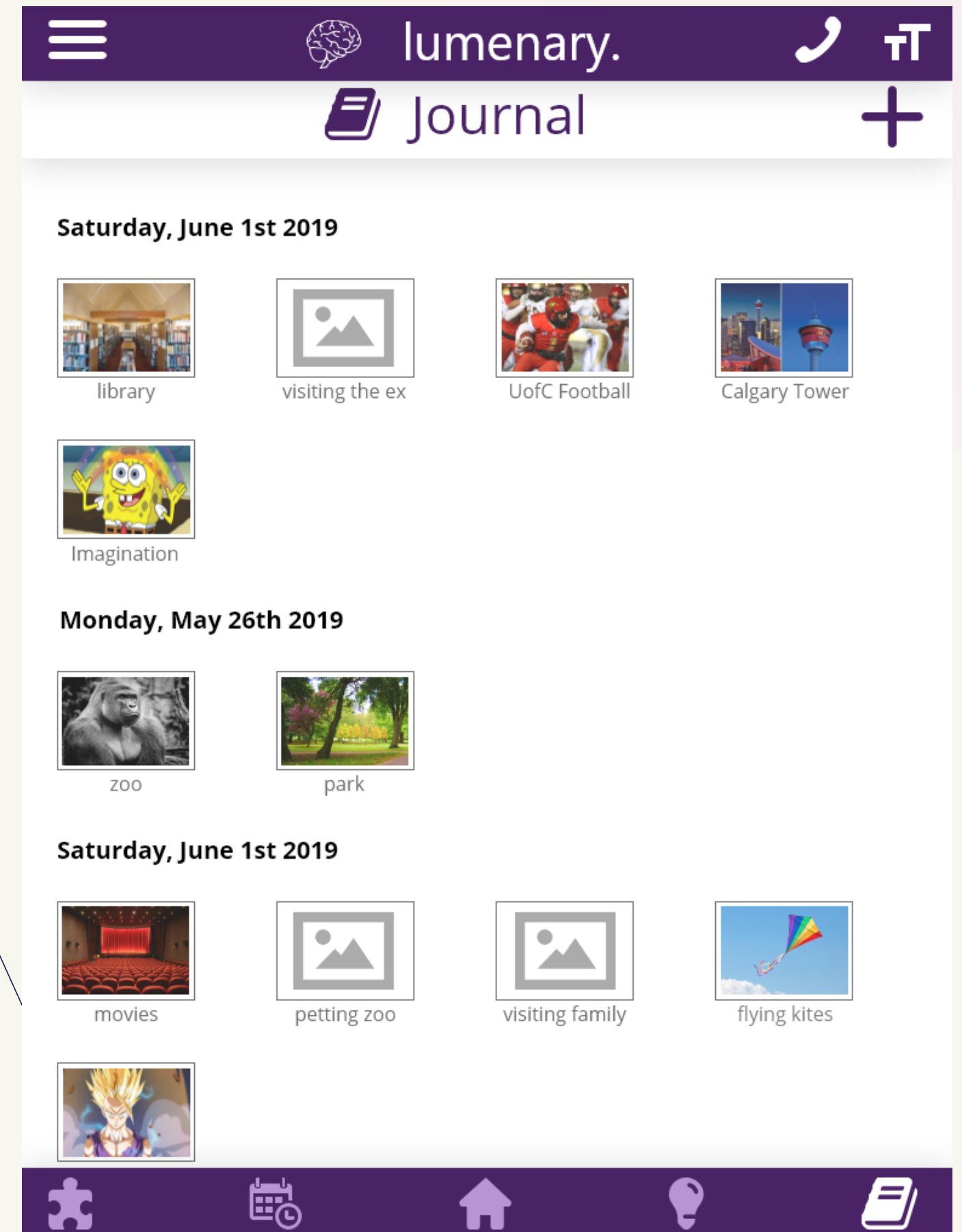
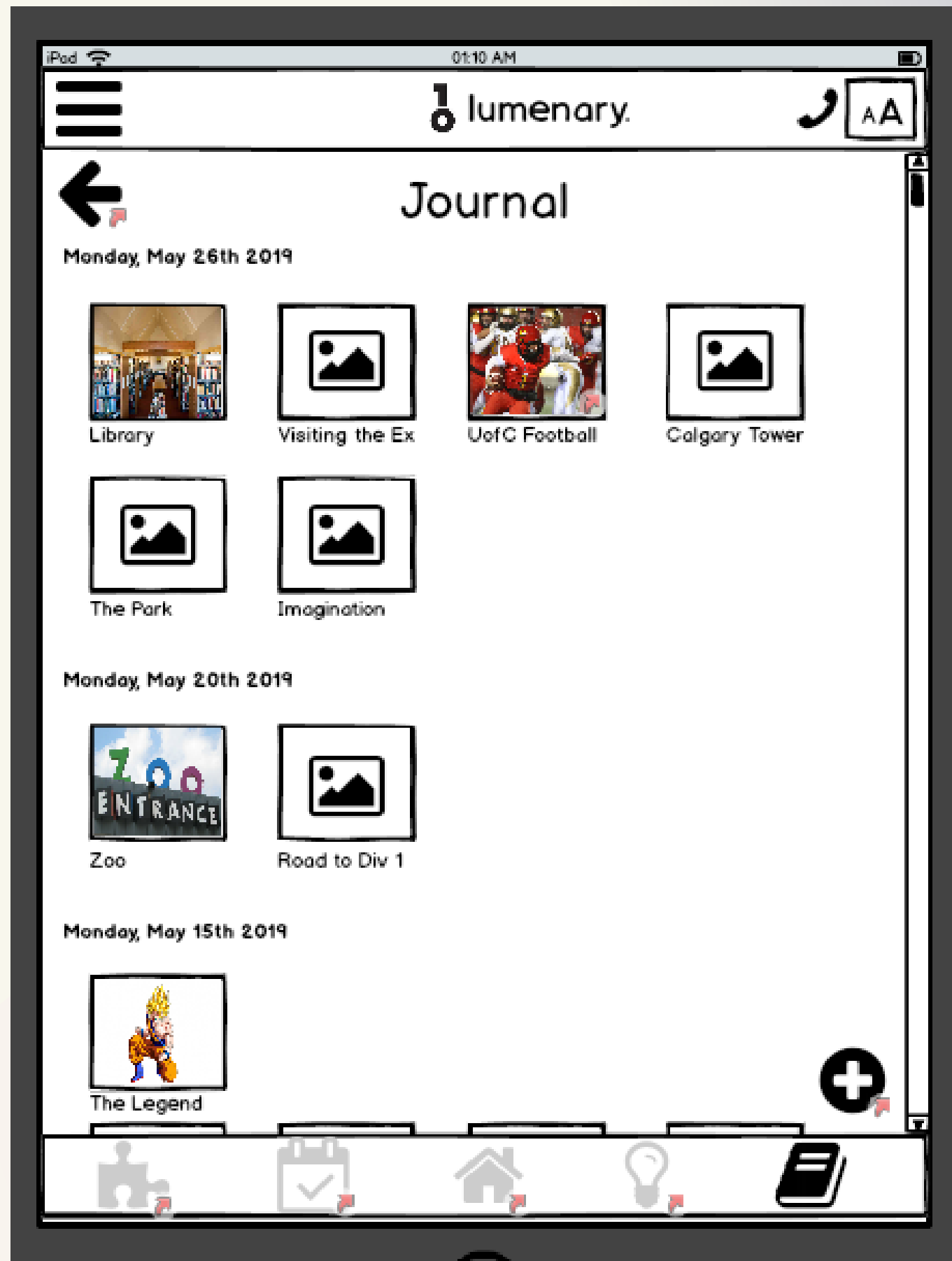
Compare and Contrast





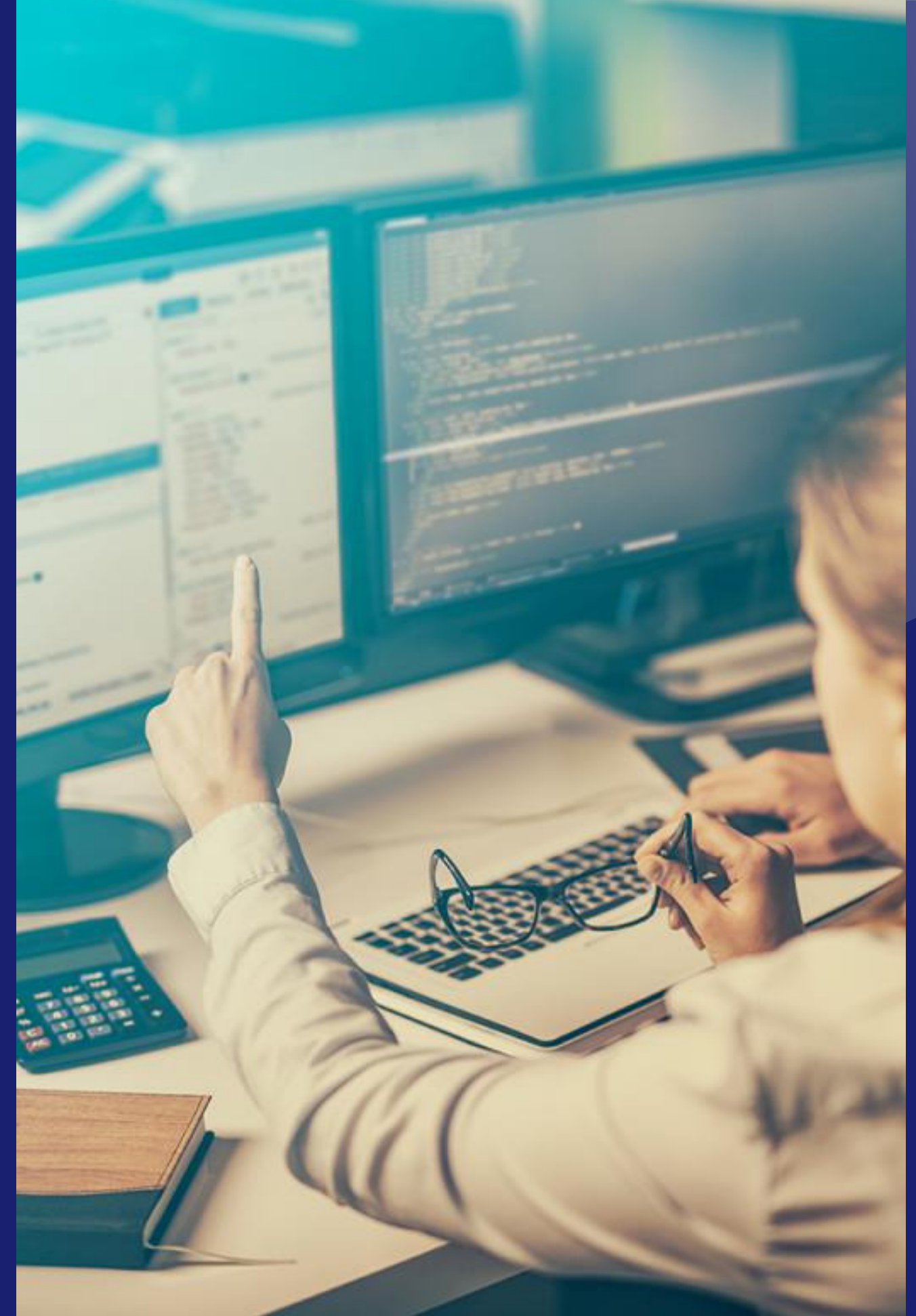




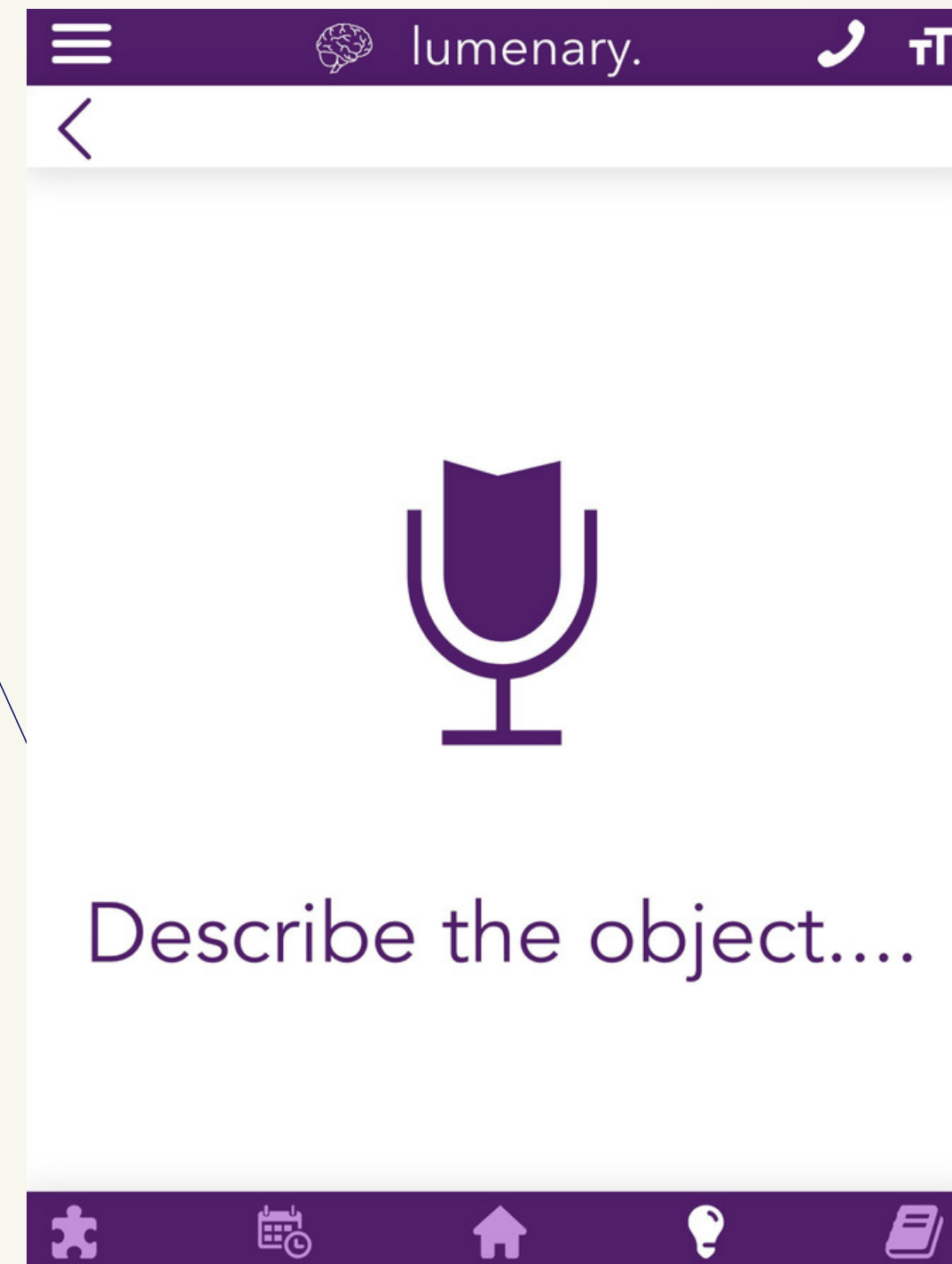
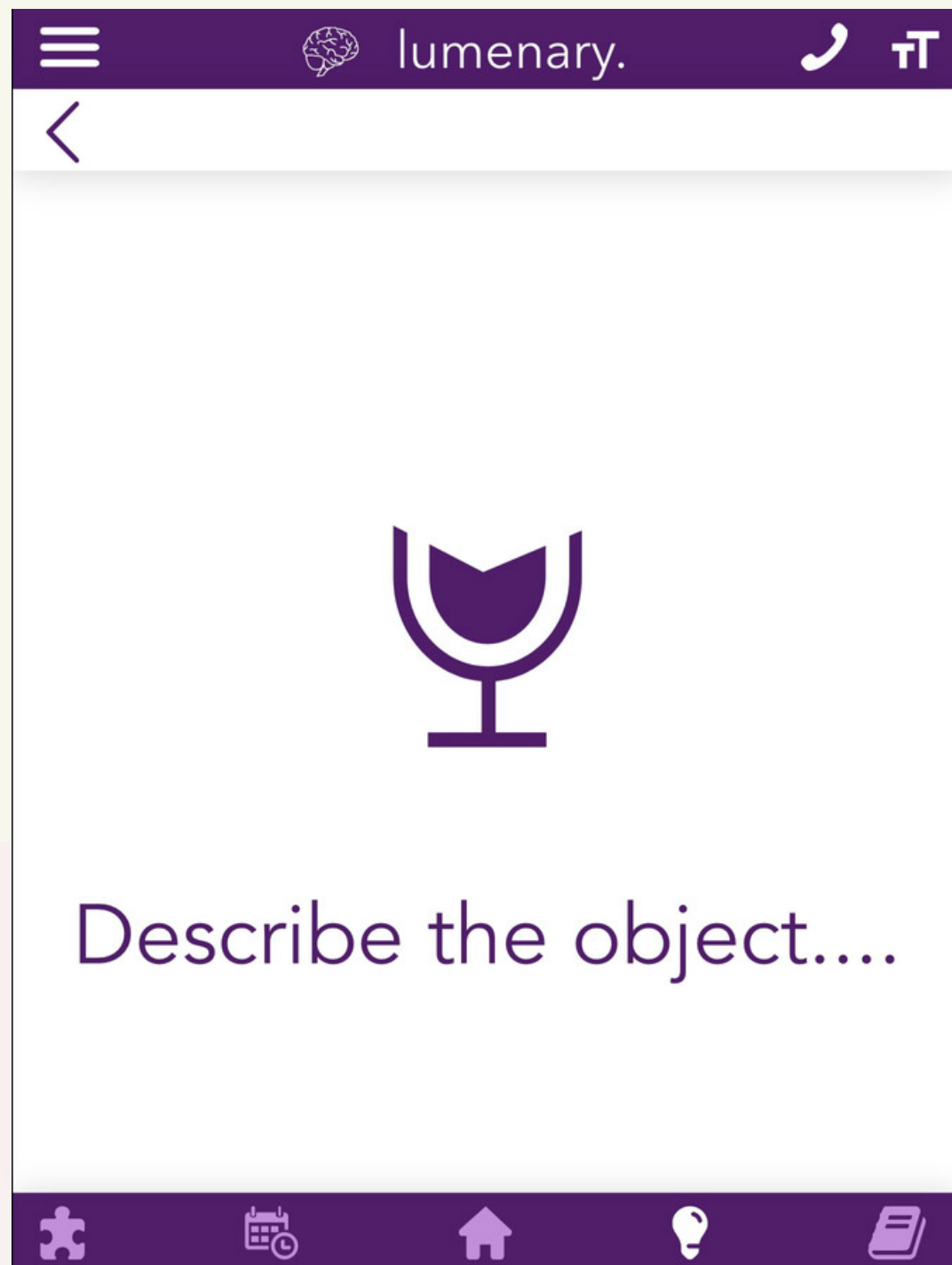


Heuristic Evaluation

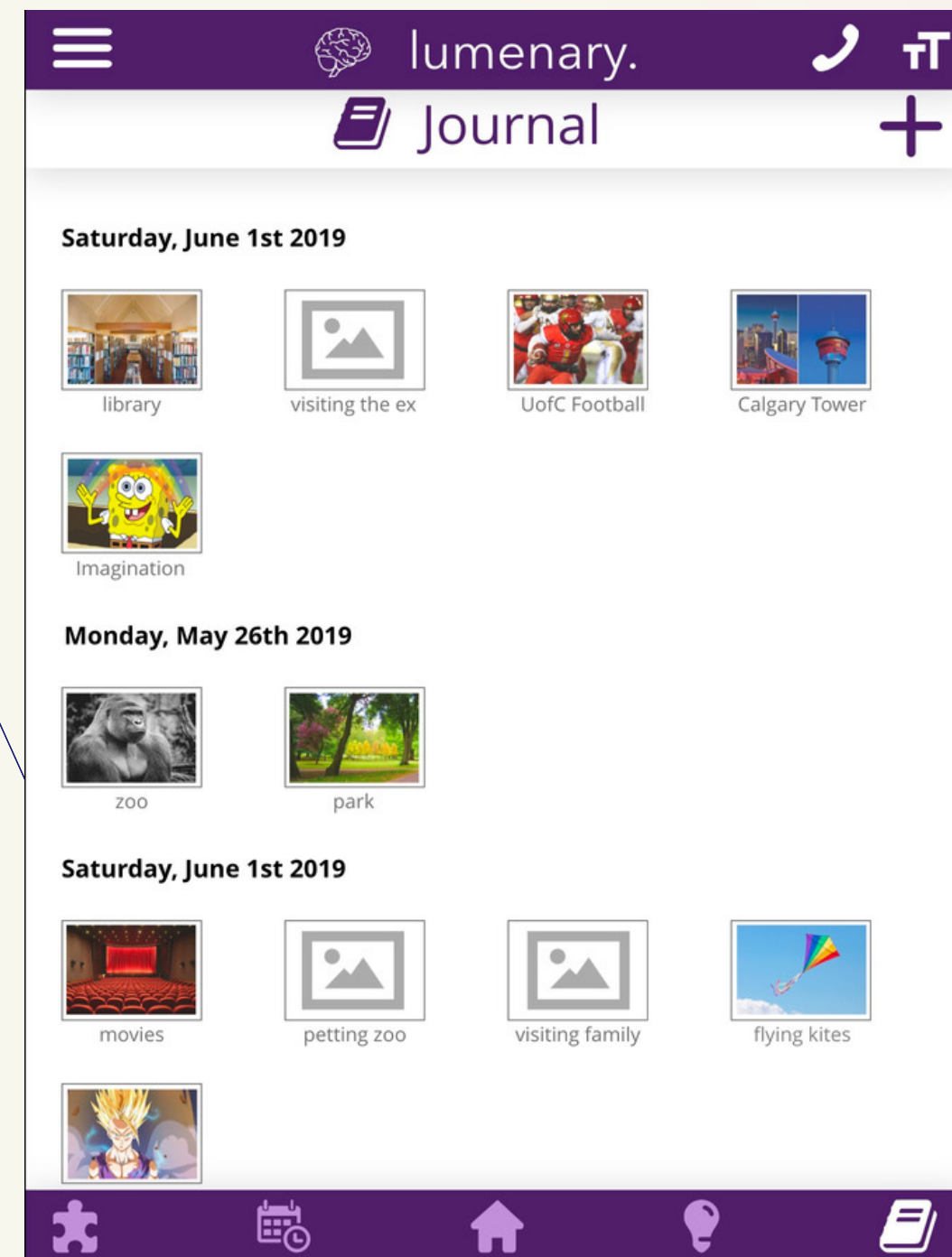
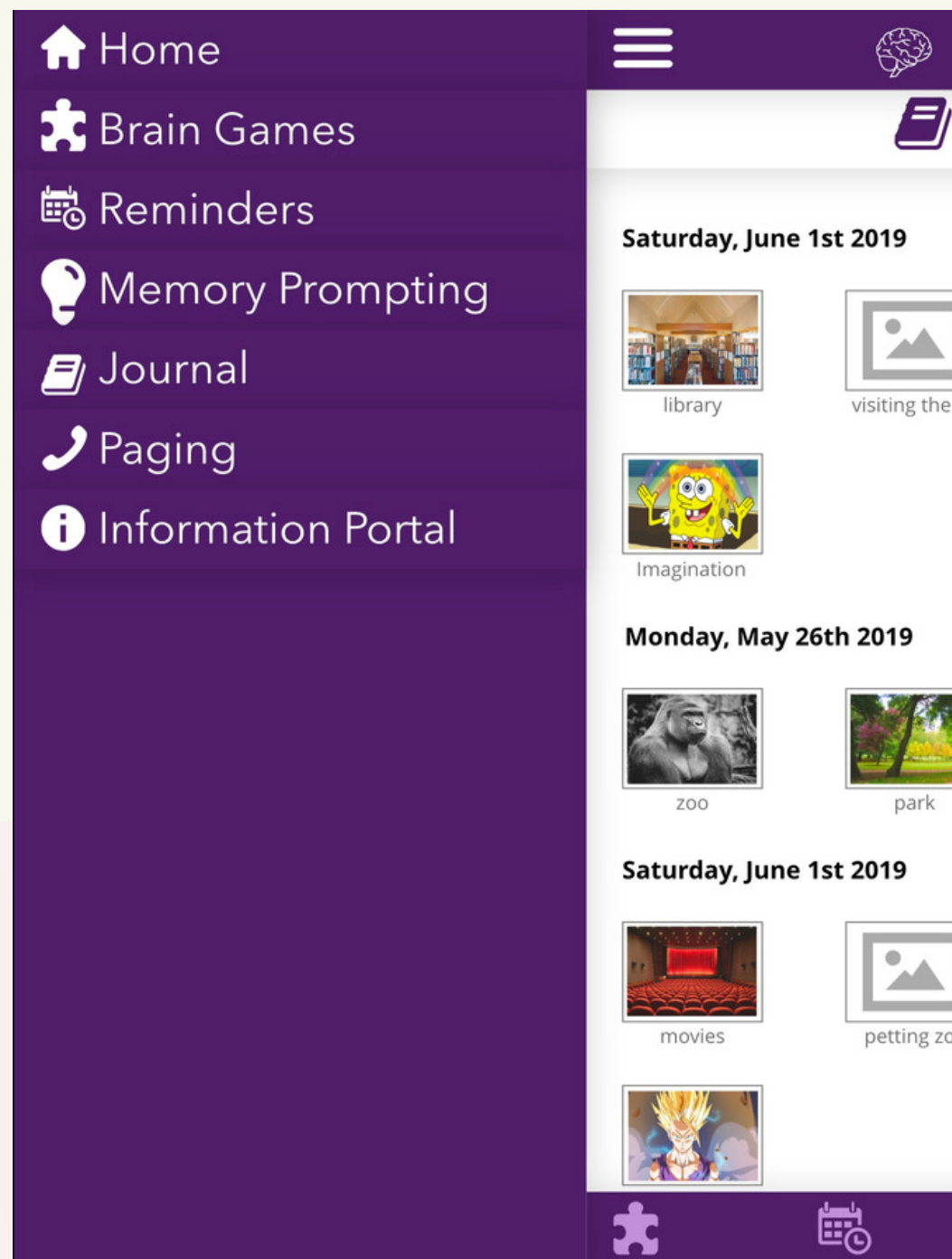
Systematic inspection of an interface design to see if an interface complies with a set of usability heuristics, or usability guidelines



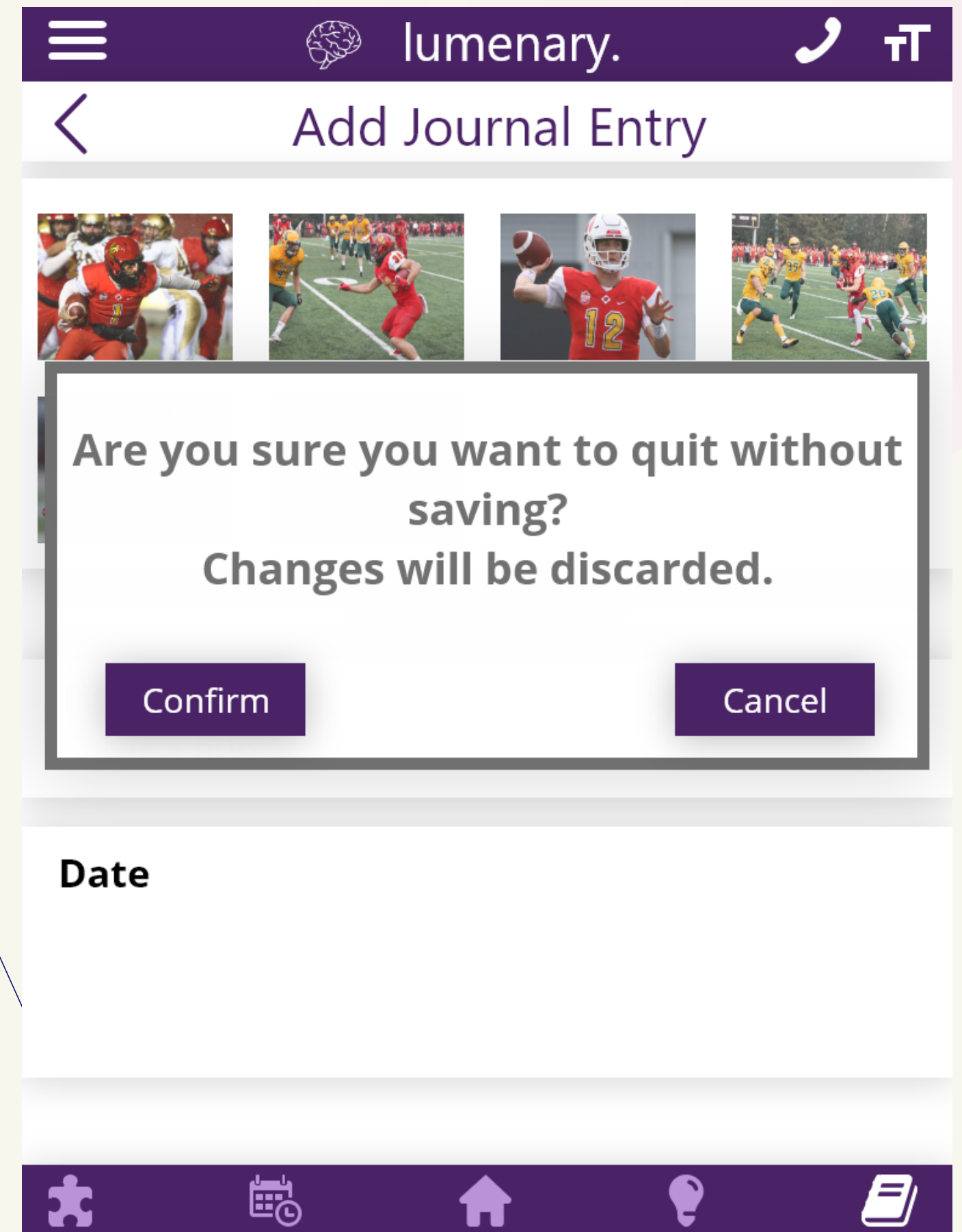
Visibility of System Status



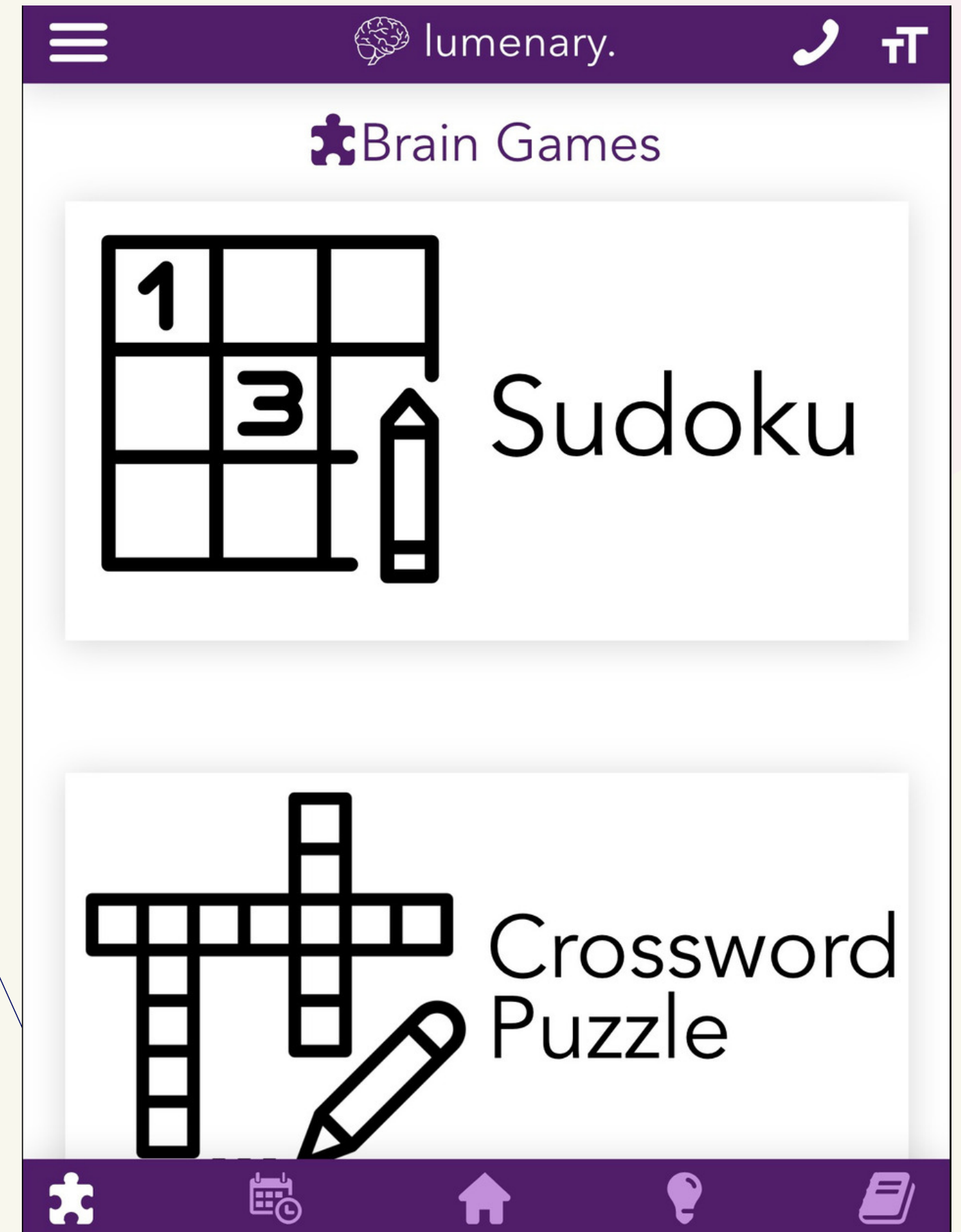
Match Between System and World



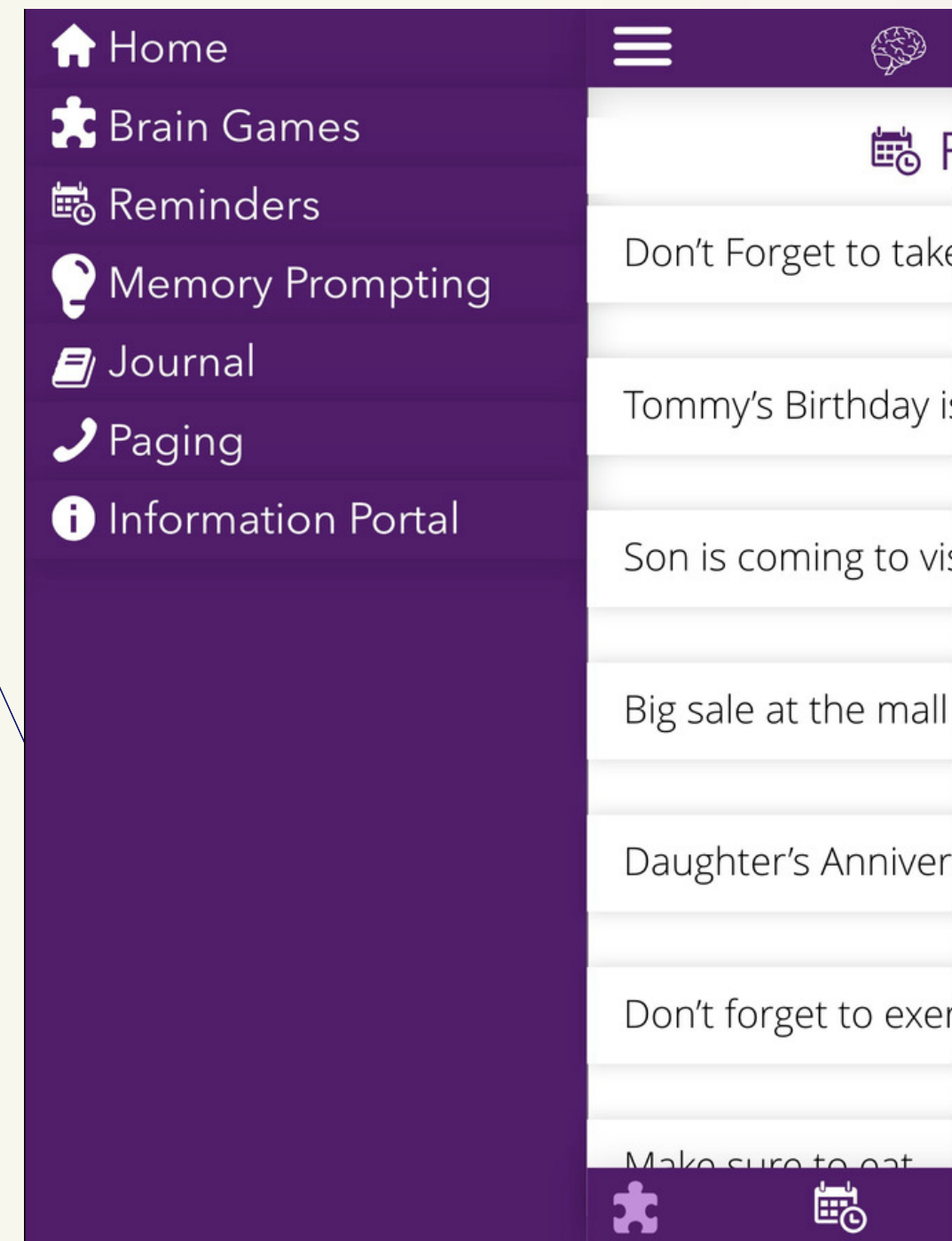
Error Prevention



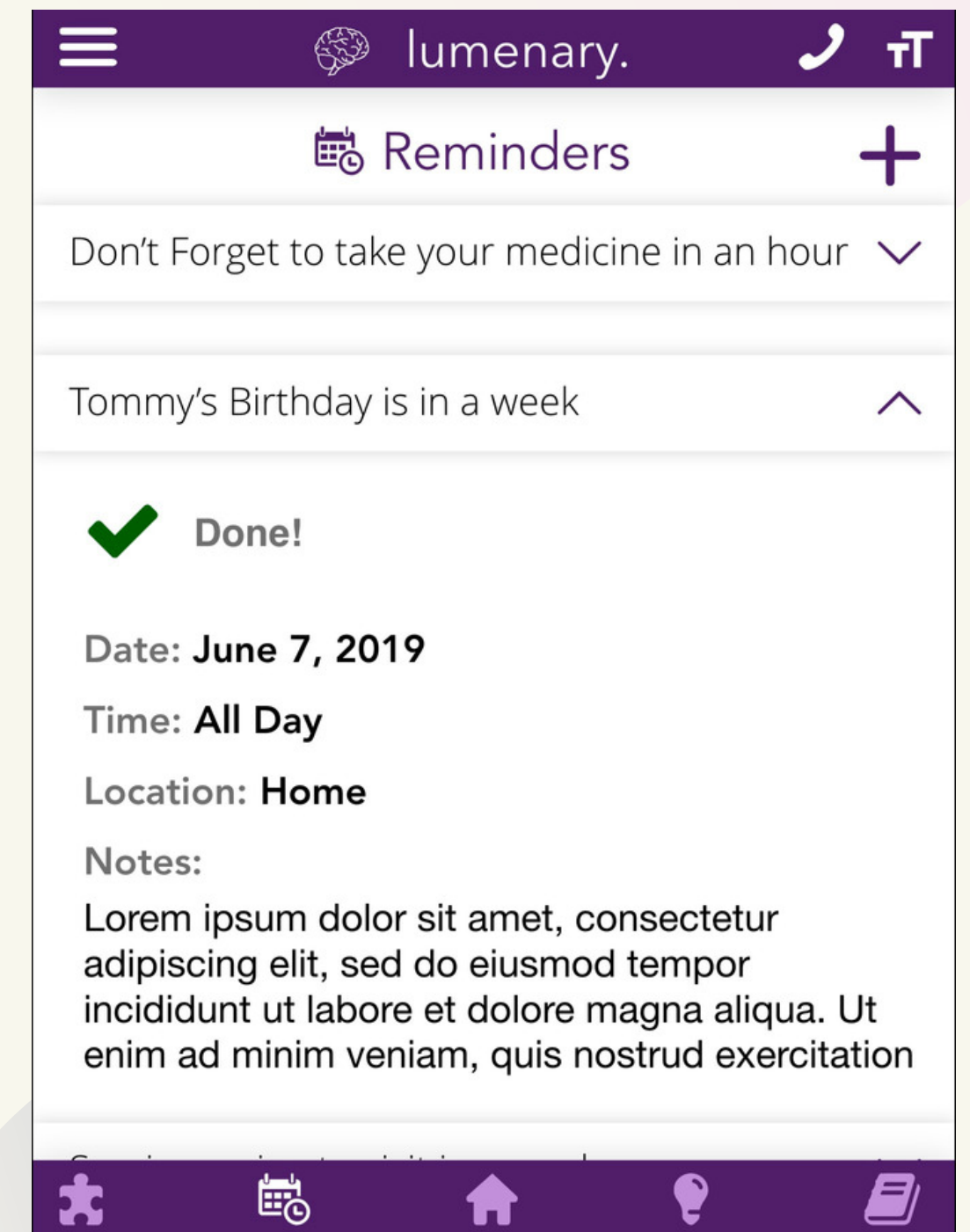
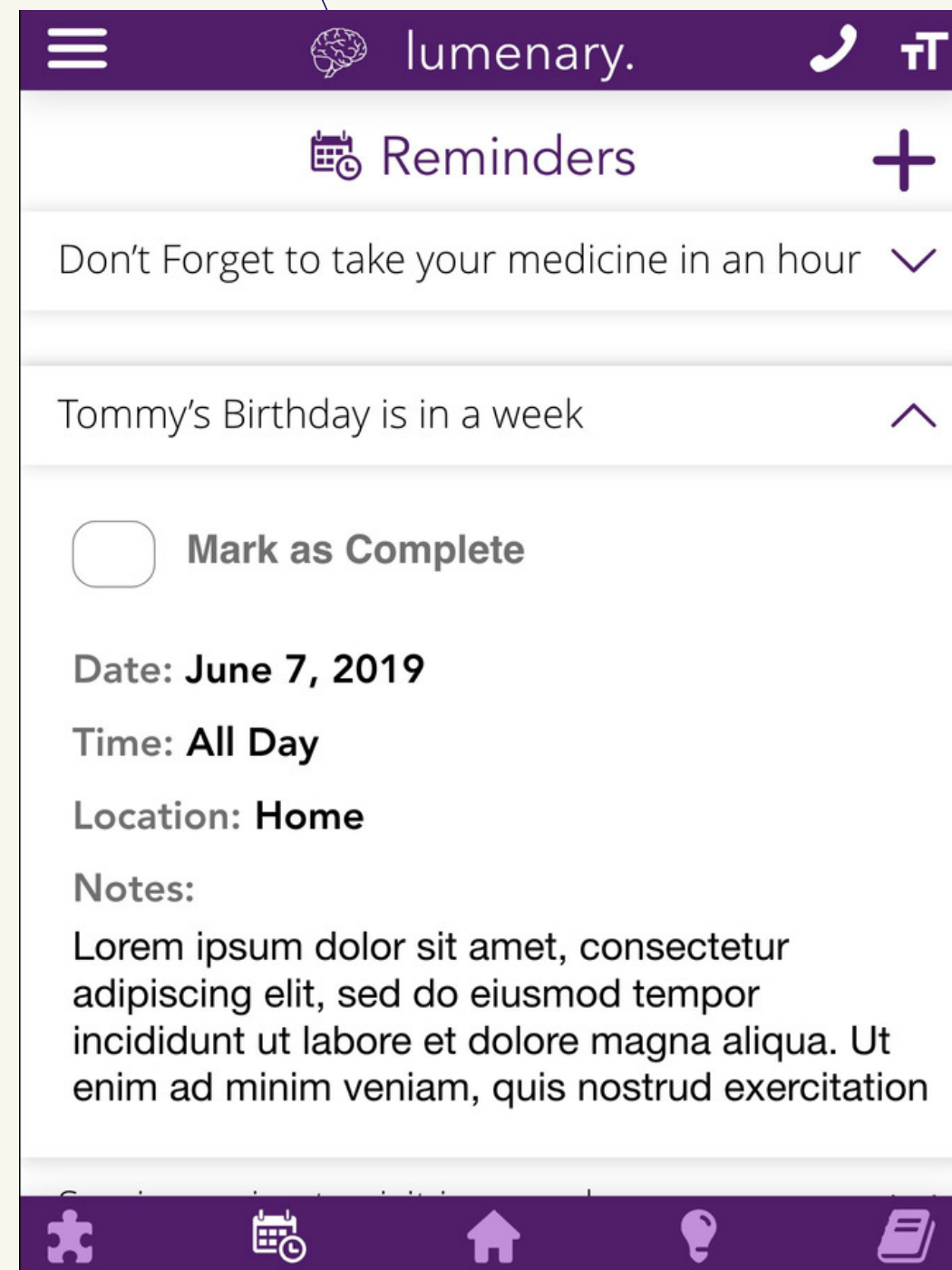
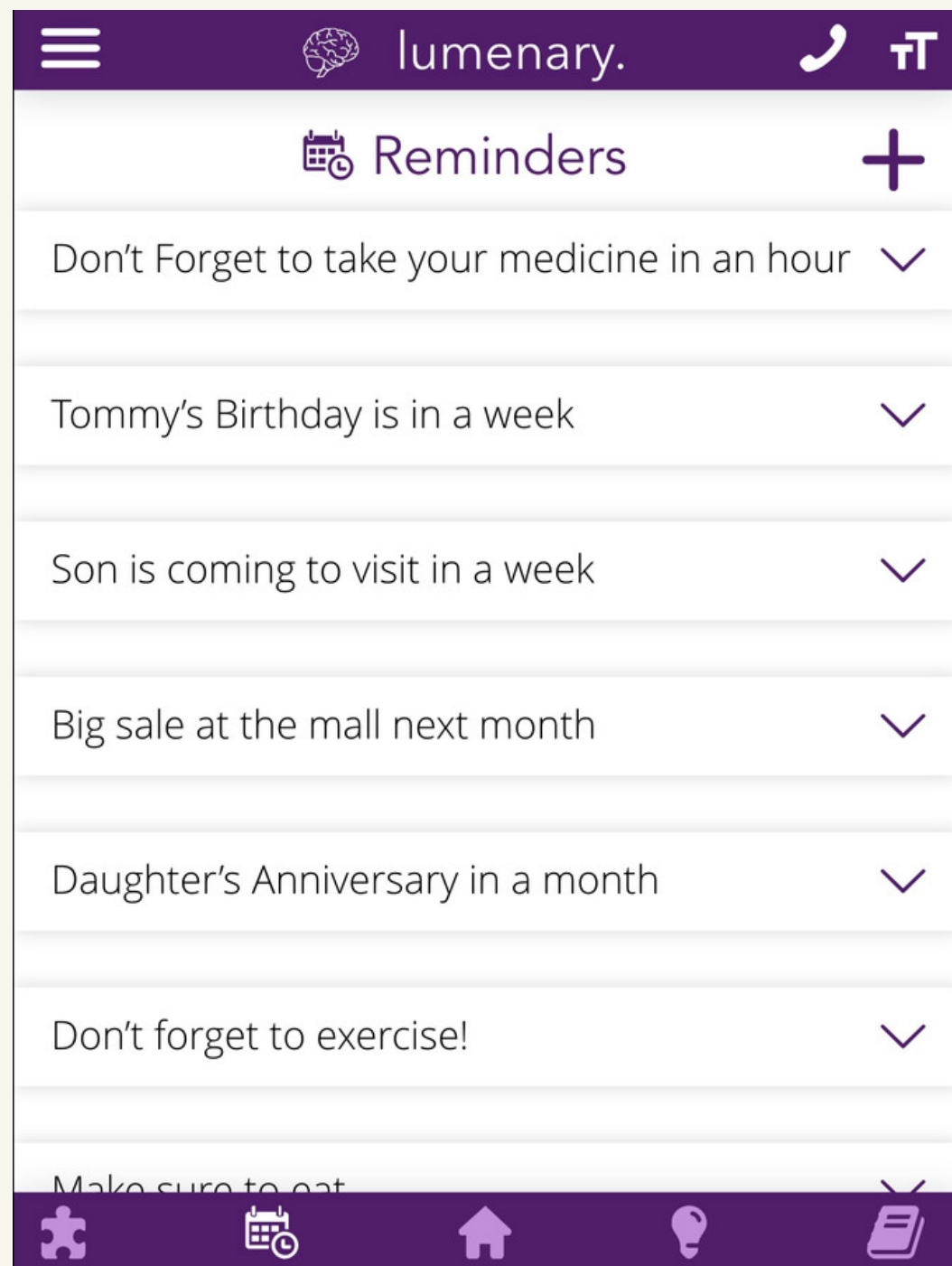
Recognition over Recollection



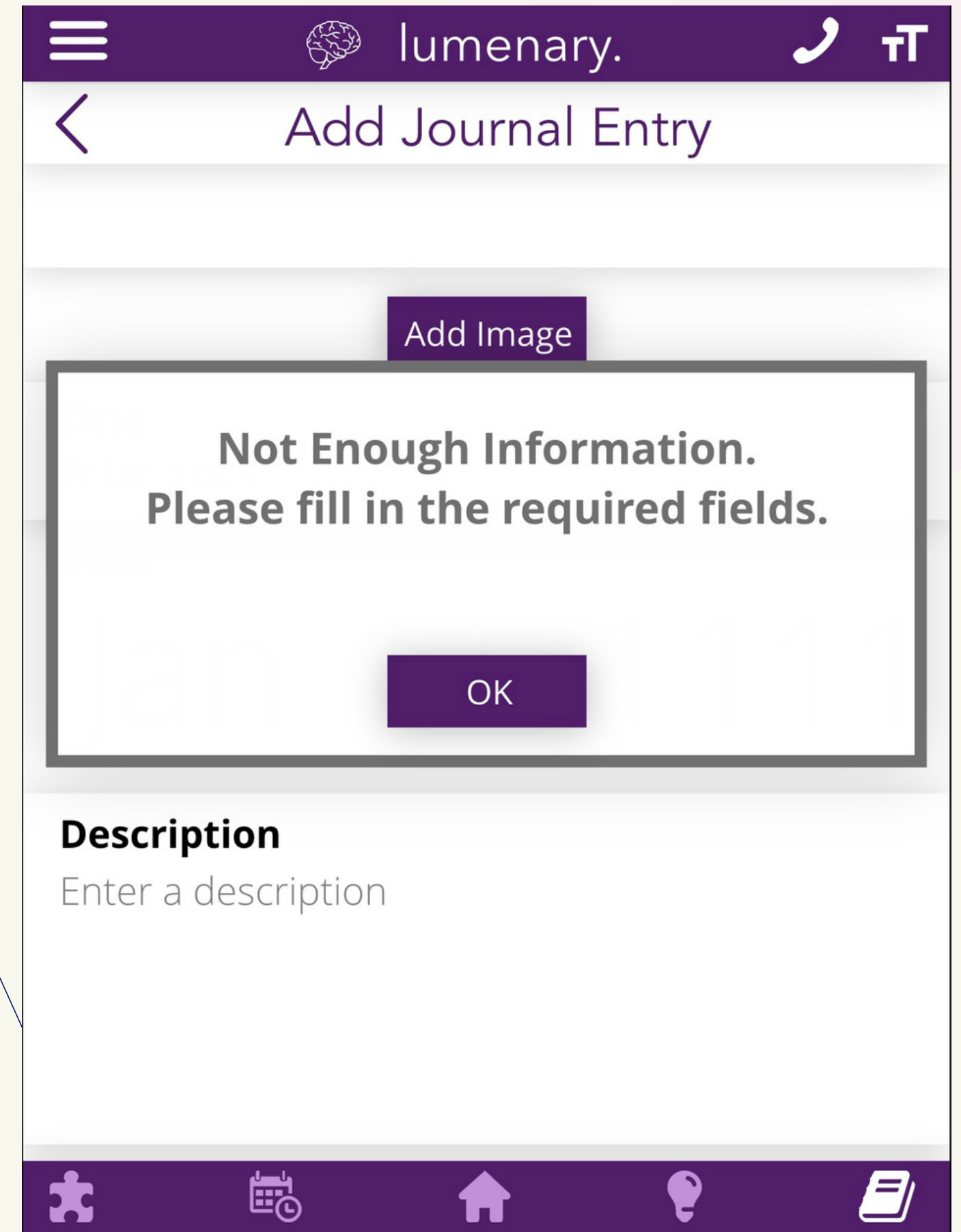
Flexibility and Efficiency of Use



Aesthetic and Minimalistic Design



Error Recognition and Recovery



Factors to Reconsider

User Control and Freedom

Increase ability to leave
unwanted state

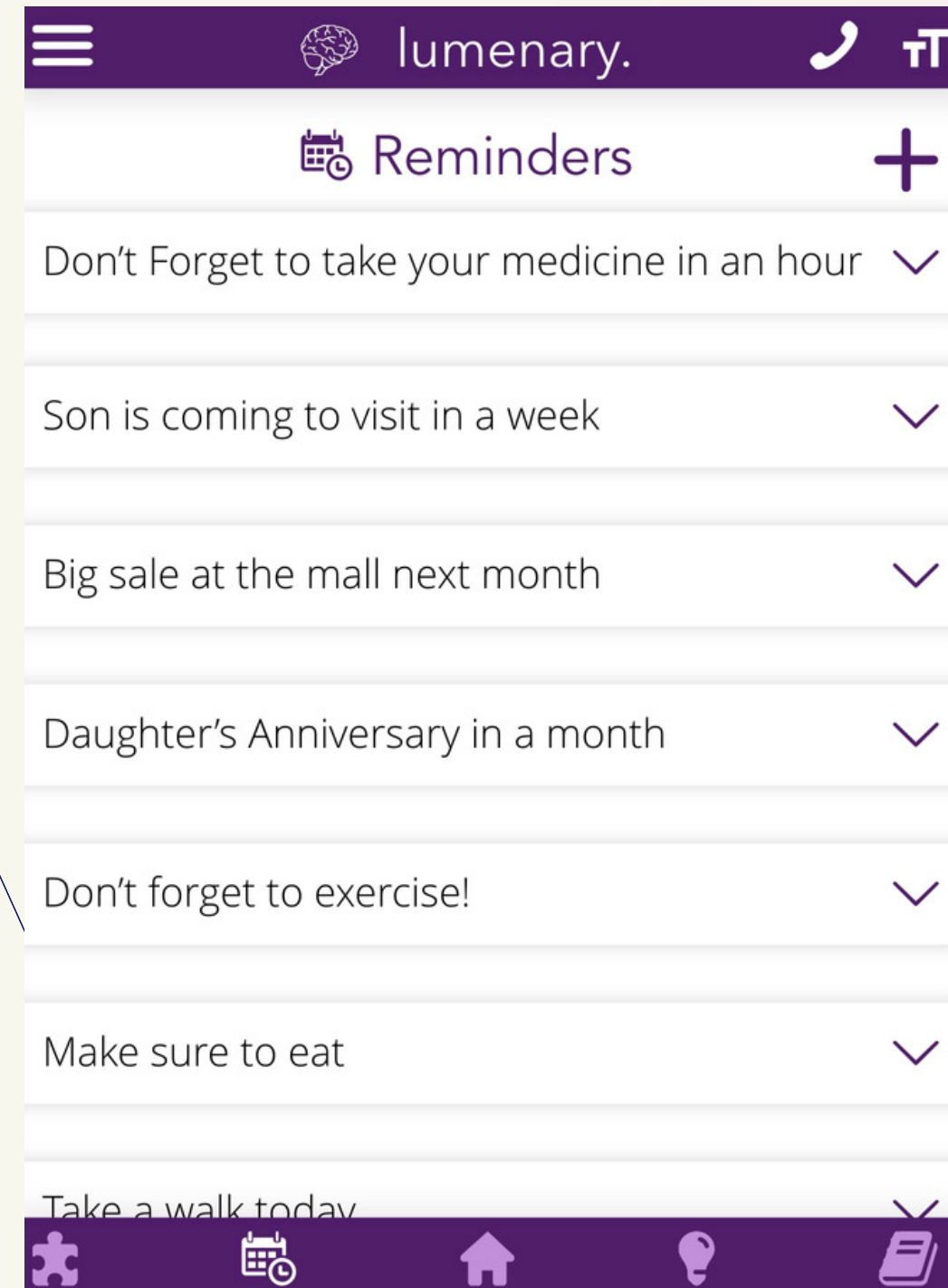
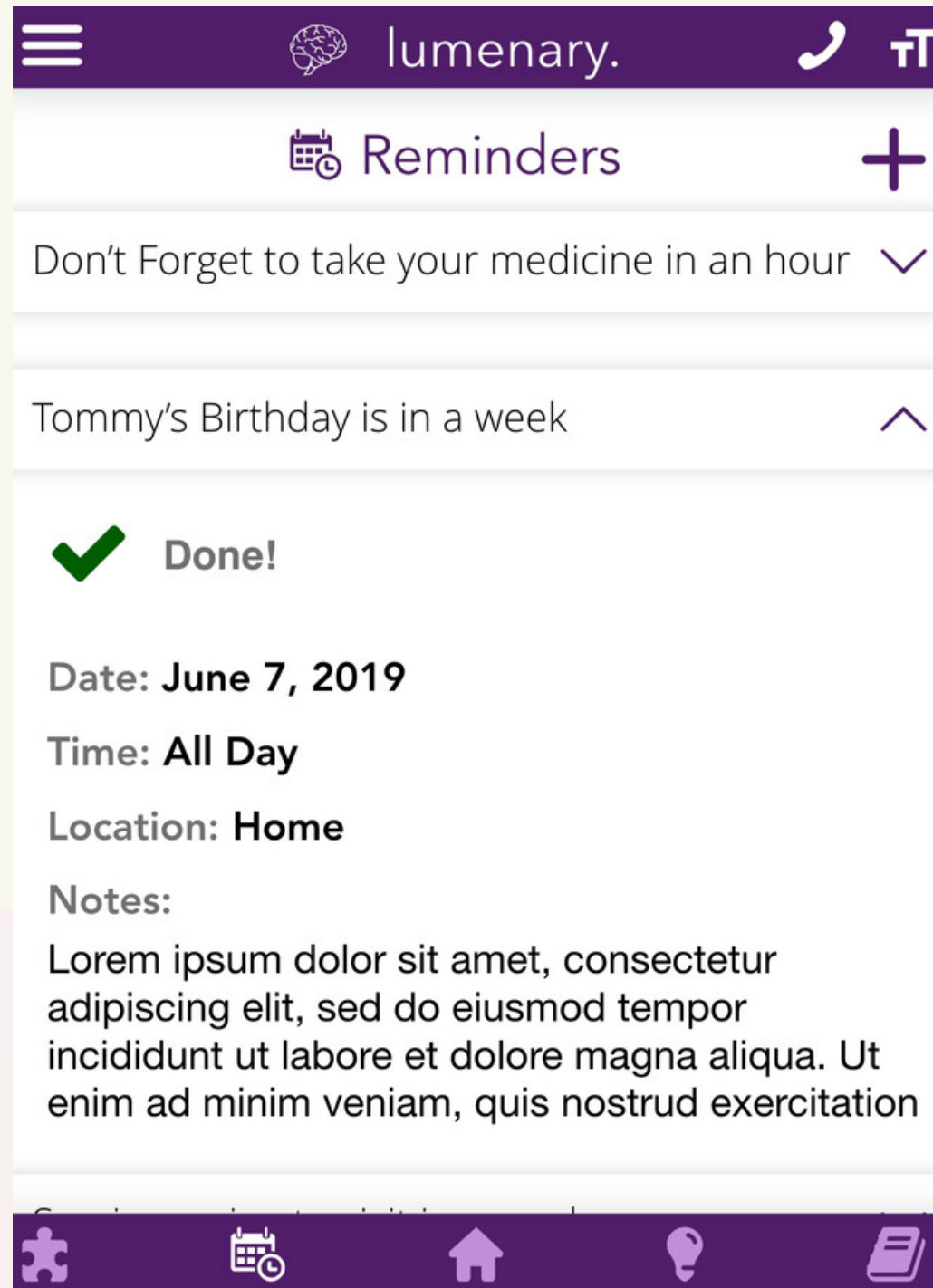
Consistency and Standards

Ensure external
consistency concerning
symbols and icons

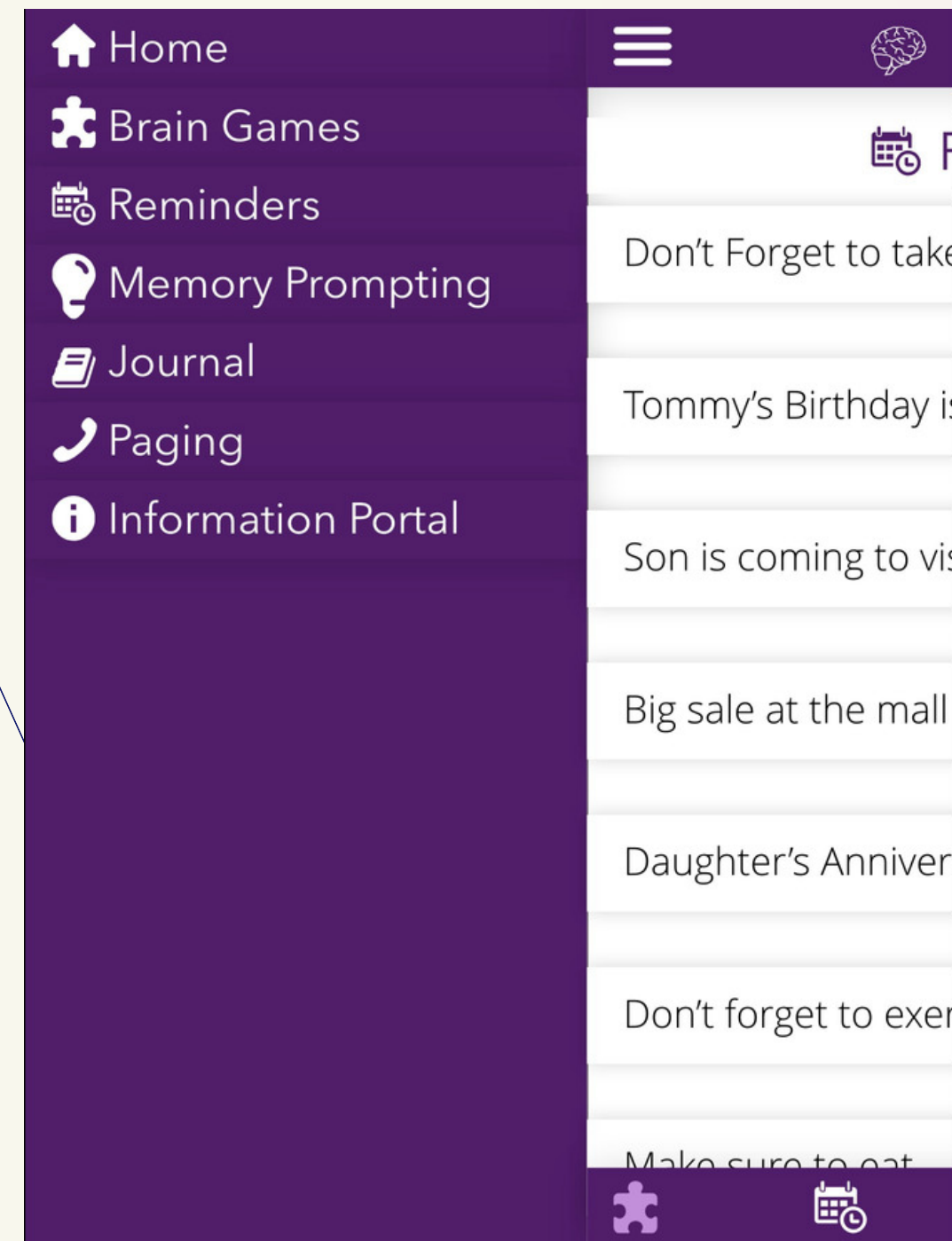
Help and Documentation

Provide information on
using application

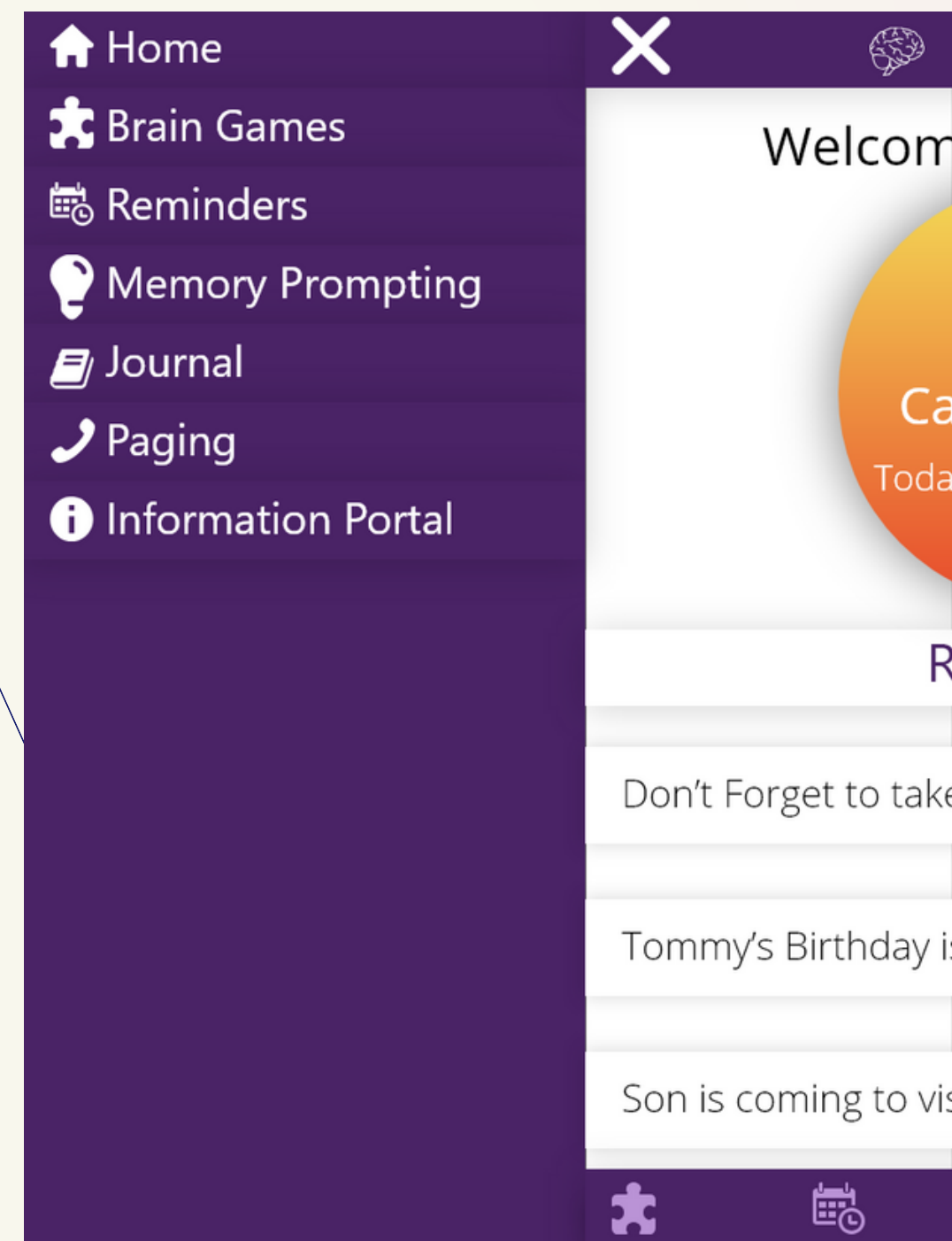
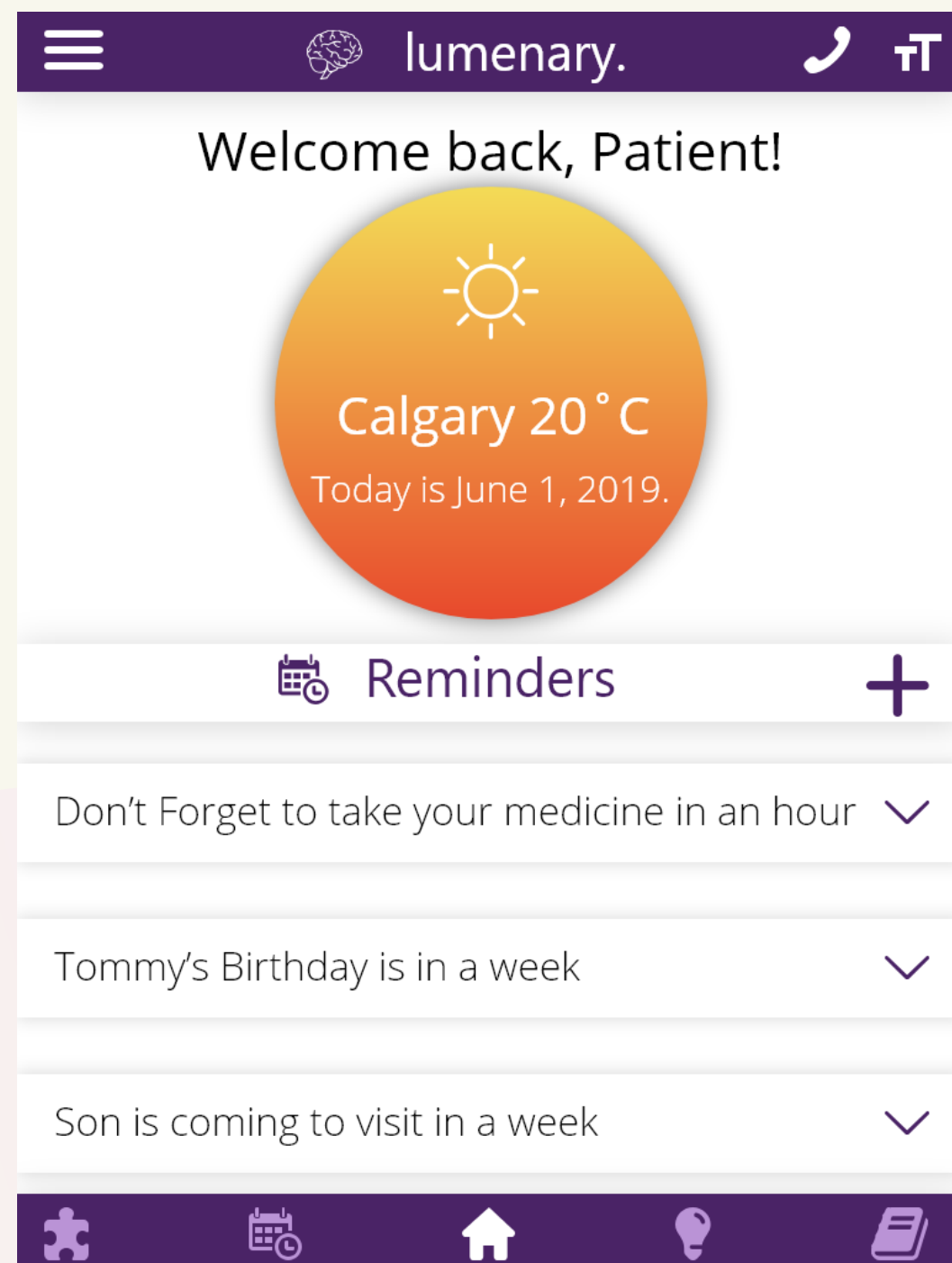
User Control and Freedom



Consistency and Standards



Help and Documentation



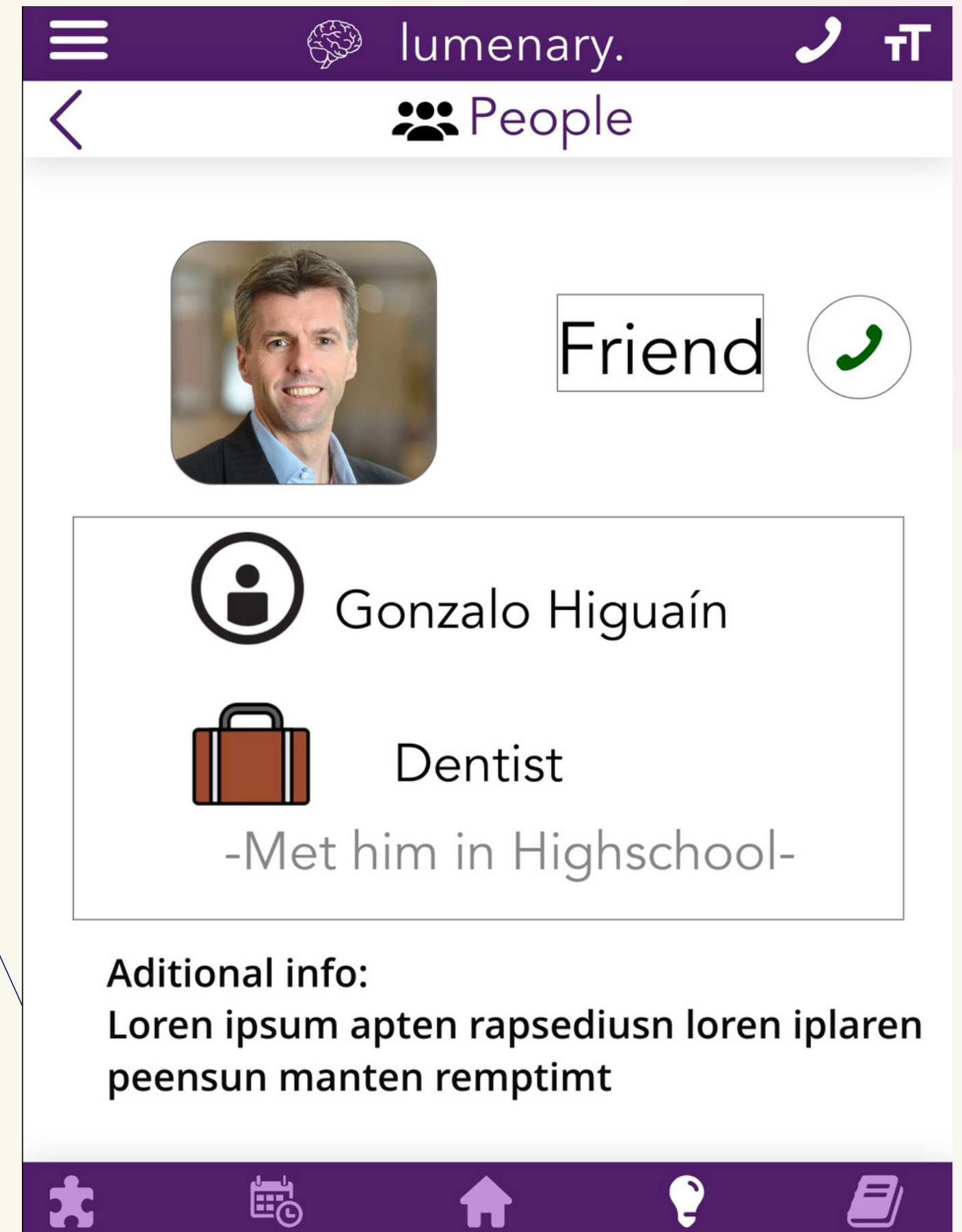
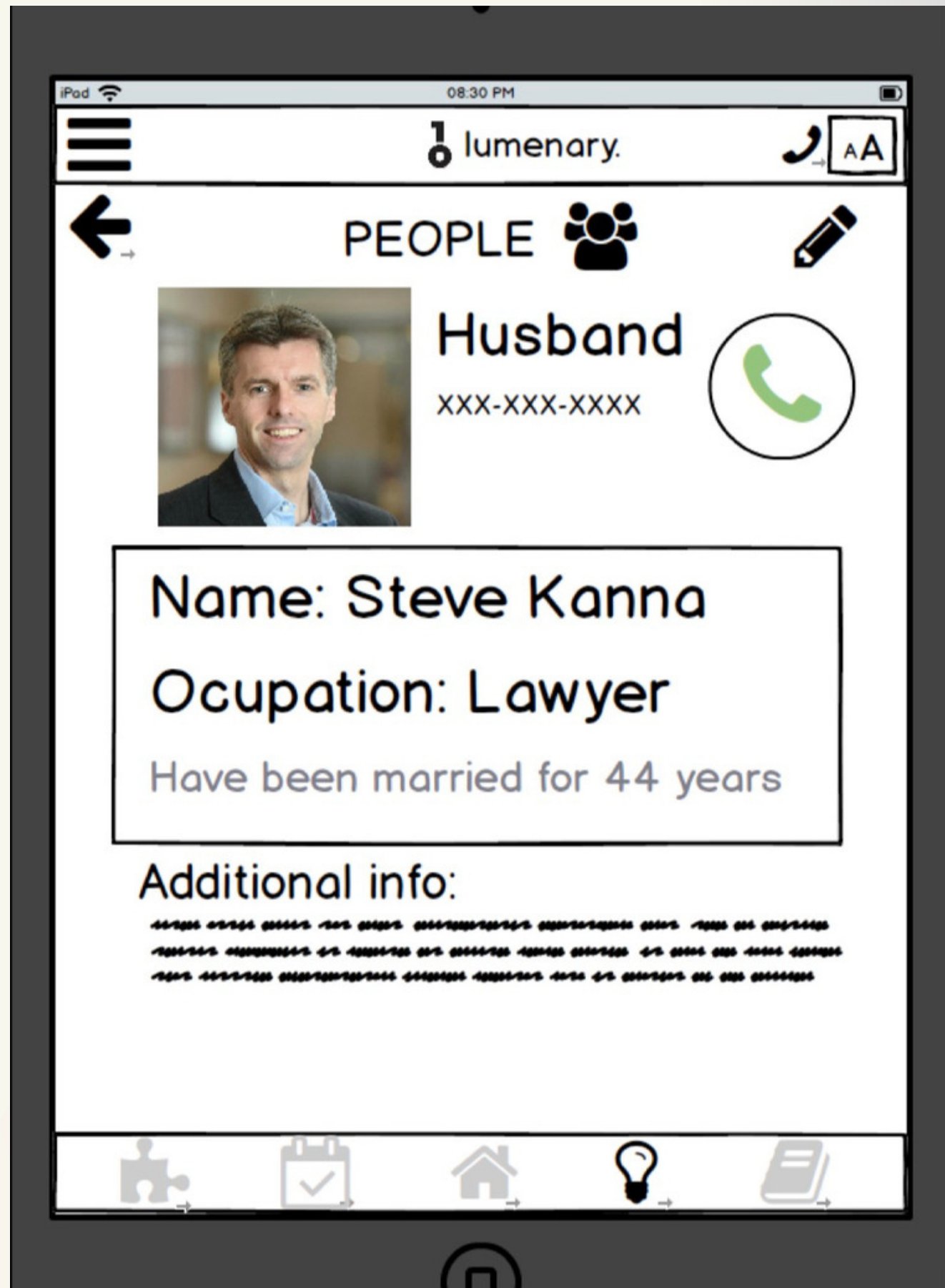


Usability Testing

Think-Aloud Protocol

“Design isn’t finished until somebody is using it.”

-Brenda Laurel, PhD, Independent Scholar



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Brother Wife Son

Places Home

Missing Word?

Navigation icons: puzzle, calendar, home, lightbulb, document

lumenary. People

Enter a Person or a Place...

Brother Wife Son

Places Home

Missing Word?

Navigation icons: puzzle, calendar, home, lightbulb, document



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Welcome back, Patient!




Calgary 20° C

Today is June 1, 2019.




Reminders



Don't Forget to take your medicine in an hour 

Tommy's Birthday is in a week 

Son is coming to visit in a week 





The Next step

"We're never really 'done' anyway. Useful products should be constantly, iteratively, improved."

-Carol Smith, UX Researcher

Recommendations for Next Iteration

Increase App's Intuitiveness

Intuitive Buttons and Separation of Contacts from Memory Prompt

Adjust Flexibility & User Control

Personalization and Increased Ability to Undo and Redo

Orientation

Increase functionalities on home page

The Team

Jung Hyun
Sohn



Juan Luis
de Reiset



Steven Canon
-Almagro



Aidan
Bjelke



Steve
Khanna



Thank you!

Questions, Comments, Concerns?