

Problem

Adult Illiteracy

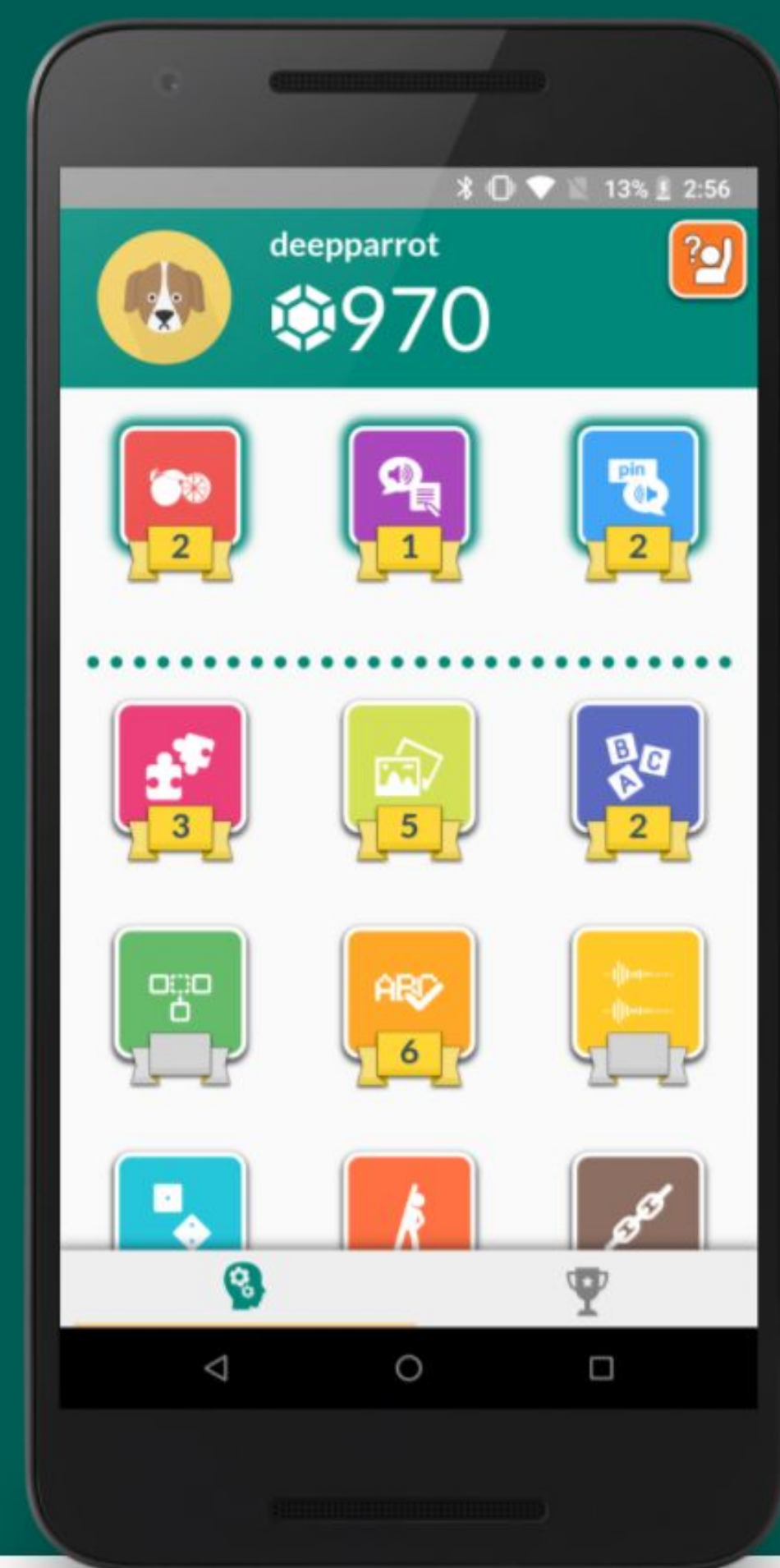
A large proportion of adults living in the United States cannot read or read at an appropriate level.

Implications

Lacking basic reading skills can exclude these adults from social interactions and limit their job opportunities. As a result, these adults are trapped in poverty.

CAPITAL

Comprehension and
Pronunciation Instructional
Tools for Adult Learners



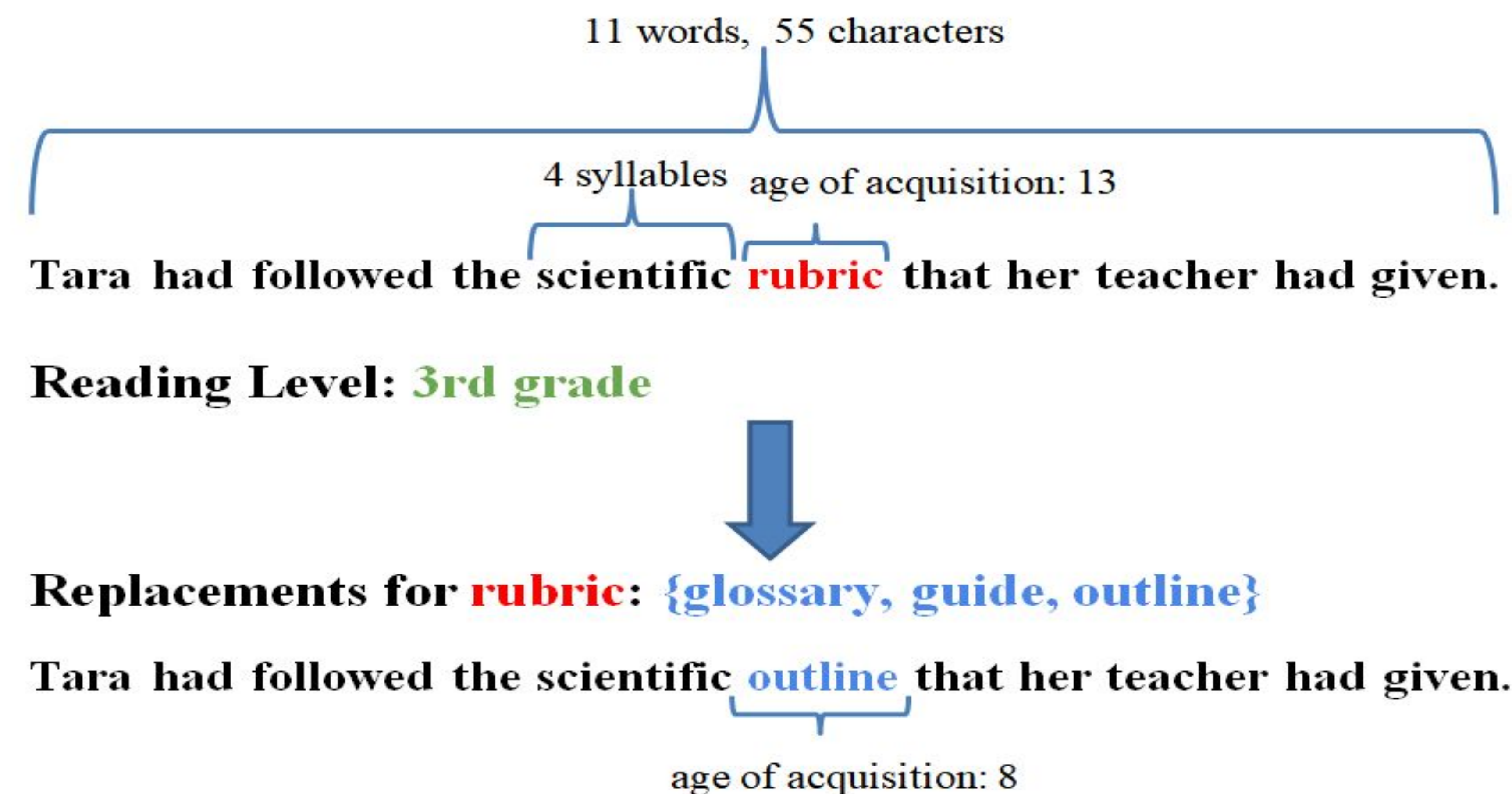
- Reading
- Spelling
- Pronunciation
- Phonetics

Objective

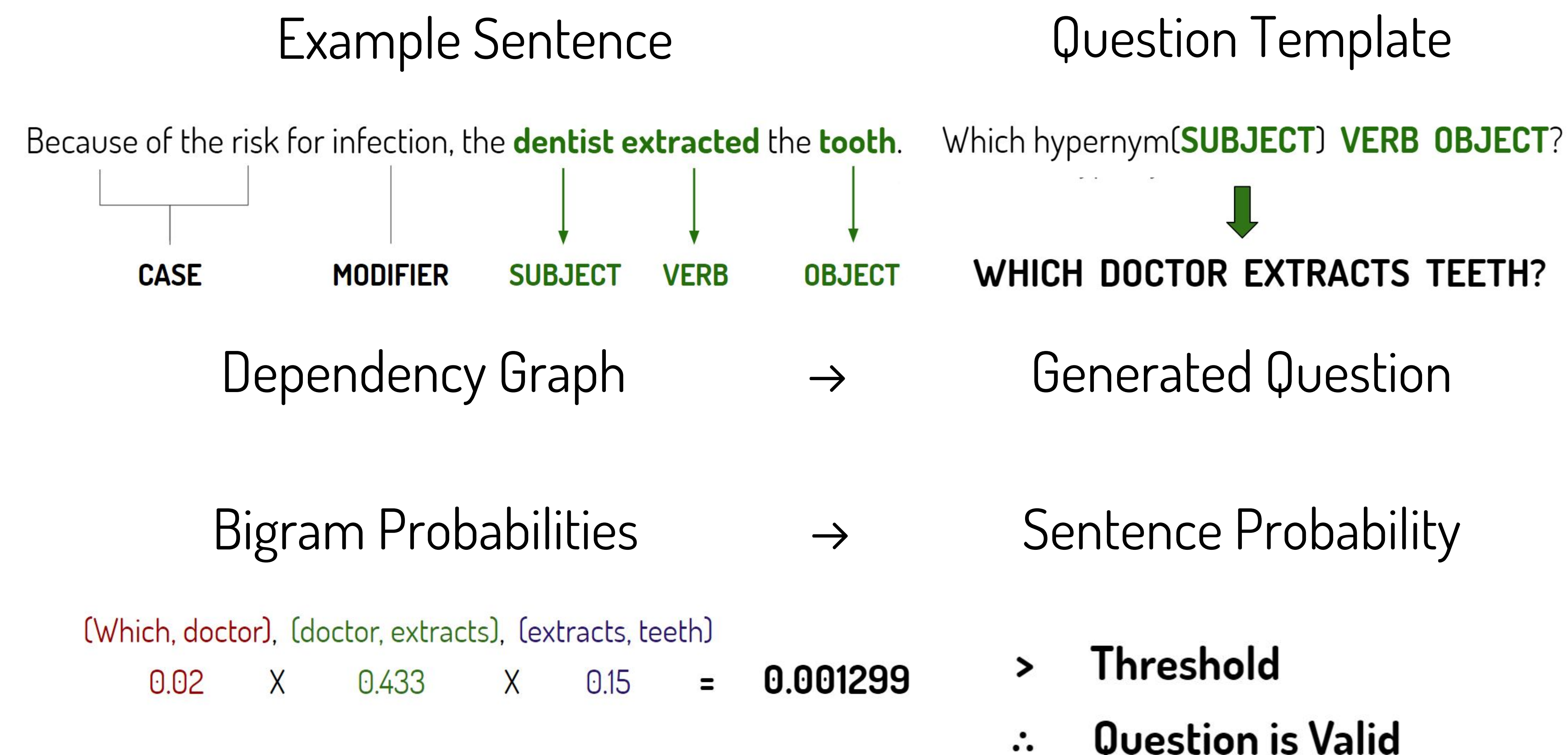
To expand on the functionality of the CAPITAL application by implementing new modules for:

→ *Passage Simplification* → *Comprehension Question Generation*

Passage Simplification



Comprehension Question Generation



Impact

Flexible Coursework

The automatic generation of questions using our algorithms allows for teachers to create individualized coursework with the material of their choosing!

Gamification

The gamification of the app enhances user retention and facilitates friendly competition!

Eliminate Stigma from Illiteracy

The ease of completing coursework from any location with complete anonymity helps motivate adults to begin learning!

A Brighter Future for All

A future with less illiteracy means a more capable, more productive workforce and community!

Future Work

- Sentence restructuring for simplification
- More complex questions types
- Implement coreferencing in question generation
- Develop a more robust validator using Google NGrams