# The Interface Design of Assisting Children to Find Books in the Library Using Smartwatches

Wei-Ching Wang, Chun-Ching Chen, Tzu-Heng Chiu Department of Interaction Design at National Taipei University of Technology Collaborated with the National Library of Public Information









## Background

Ever-evolving technologies allow modern libraries to introduce multiple digital devices to enable readers to more easily find their desired books. However, the cognitive abilities of children might bring about incorrect use of these devices. Therefore it is imperative that libraries pursue innovative service such as visualized interfaces specifically designed for children in order to accommodate their needs.

### Problems & Solutions



**Book locations Navigation map** 



Book call numbers Simple bookshelf codes



**Book-finding devices Easy-carrying smartwatches** 

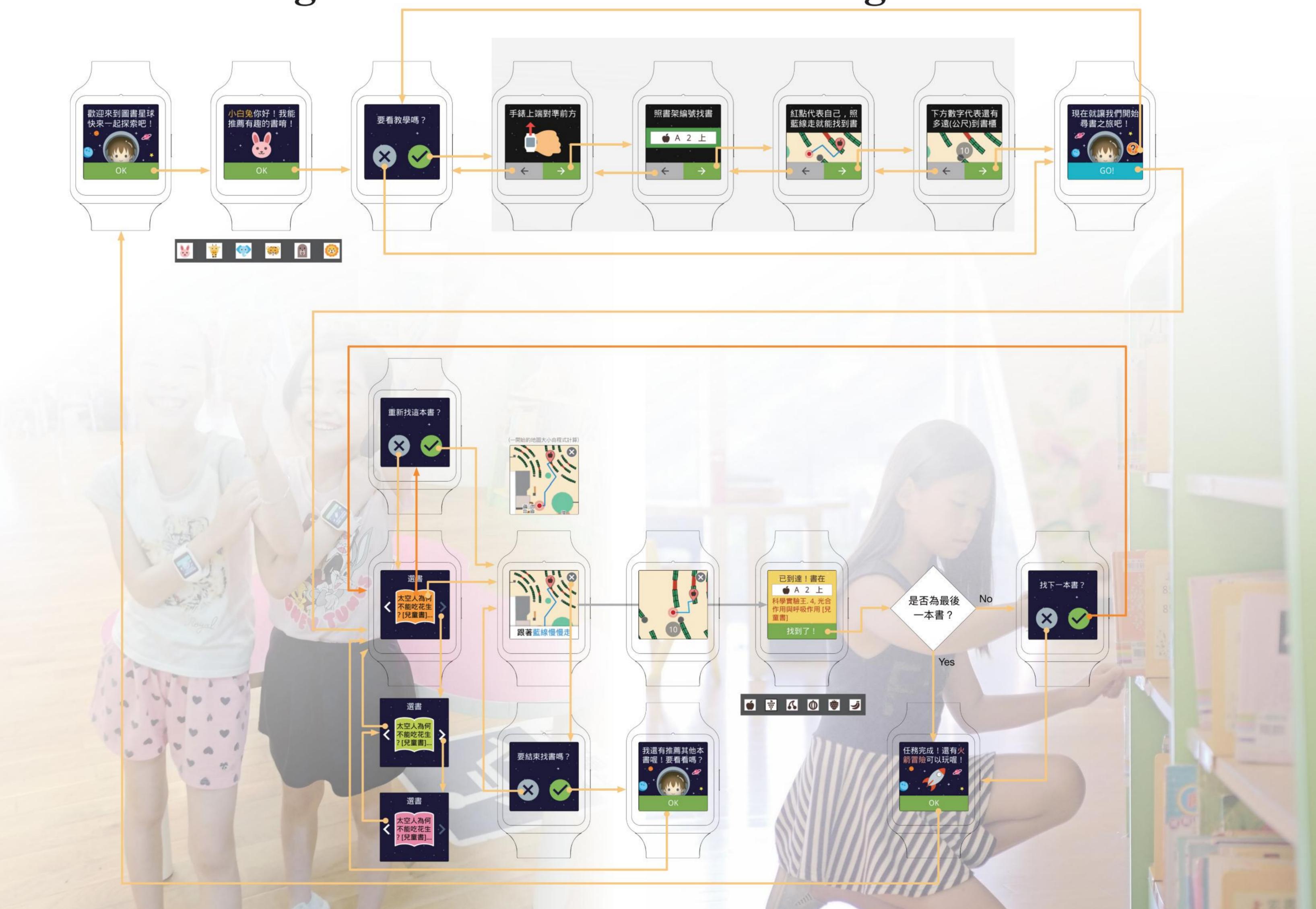
# Research & Desogn Process



# **Book-Finding Service Process**



#### **Book-Finding Smartwatch Interface Design**



#### Results

268 children at age 7-11 used smartwatches to find books, and all of them found a book in six minutes! After System Usability Scale (SUS) testing, the application is at the C scale that presented "Good" usability. This development is of great value to children's libraries and serves as reference for smaller interface design.