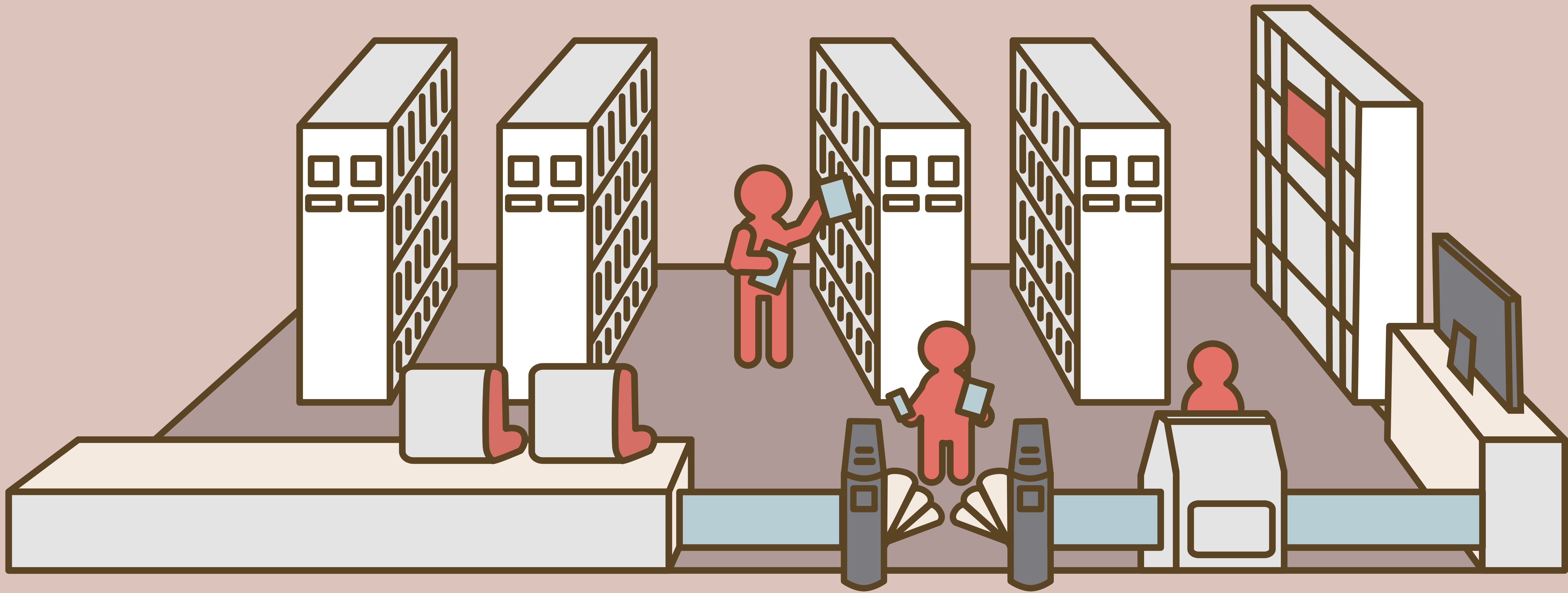
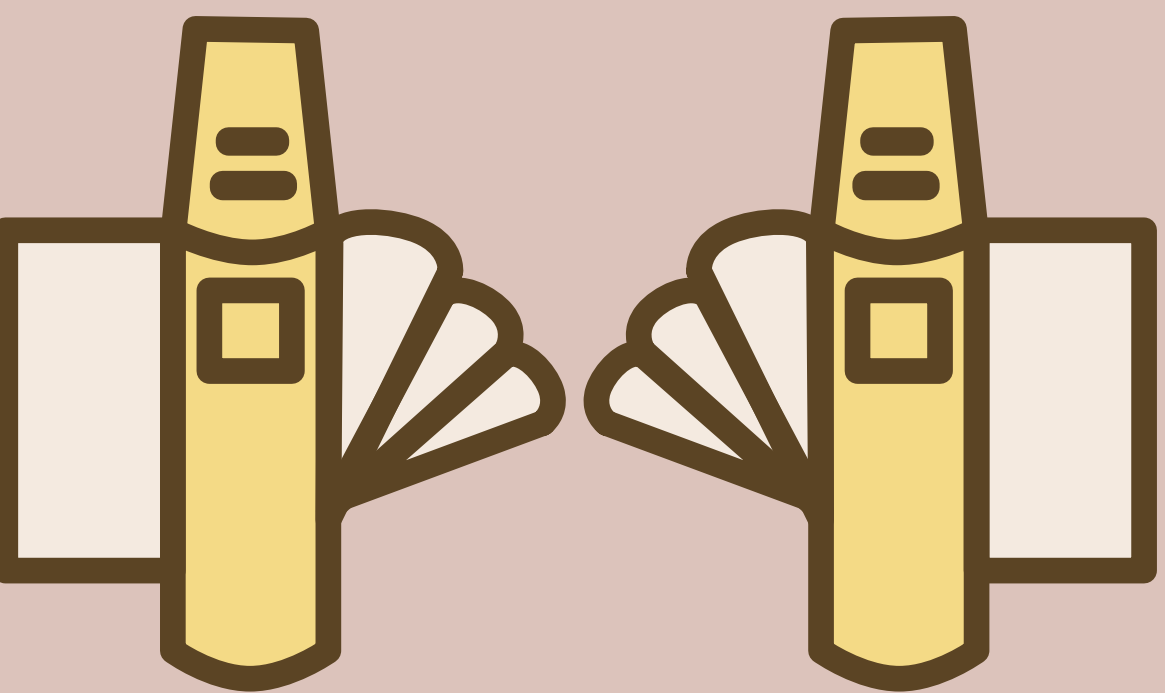


Integrated Self-Pickup Service at the National Library of Public Information (NLPI) in Taiwan : A Resilient Infrastructure

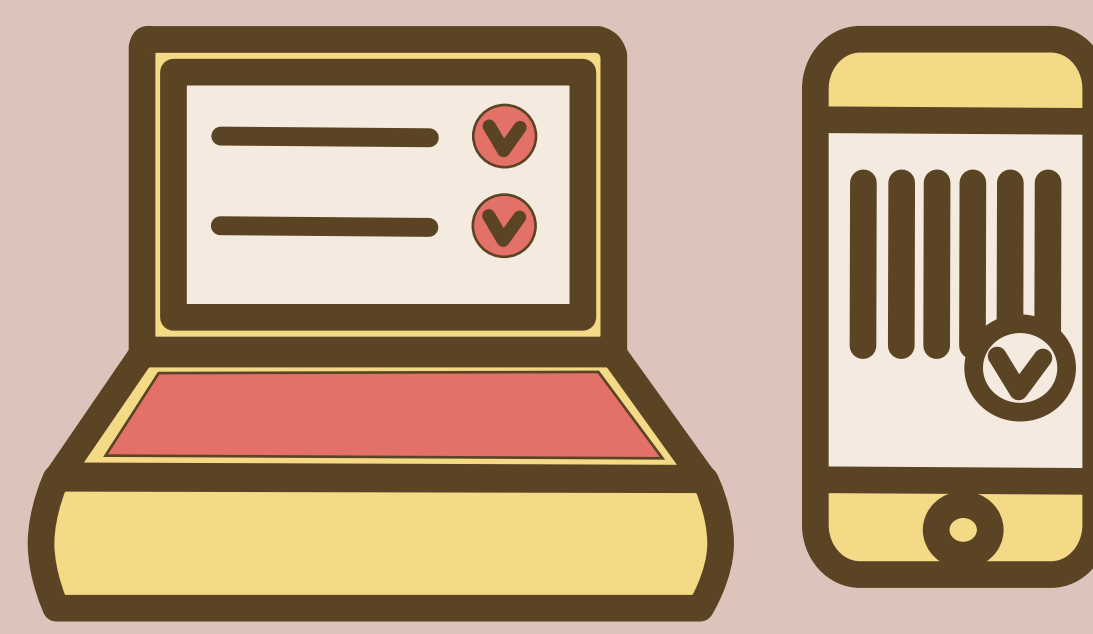


Security Gate

- Only readers with reservation can enter by scanning their library card.
- The alarm goes off when detecting books without check out.



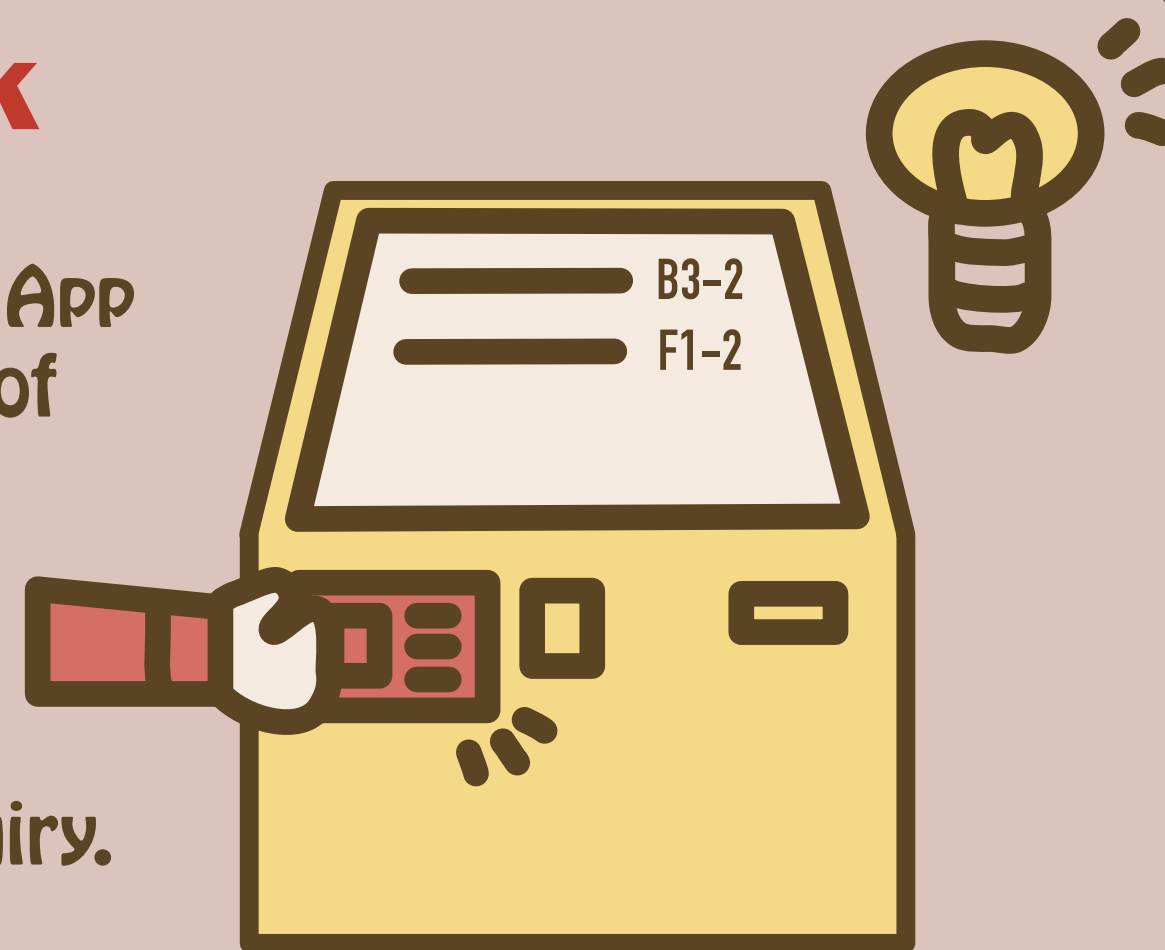
Self-checkout



- Two self-checkout machines are available in the area.
- Books can also be checked out through the Library App.

Inquiry Kiosk

- Using library card or App to reach the location of reserved books.
- The guide lights on bookshelf will light up after the inquiry.



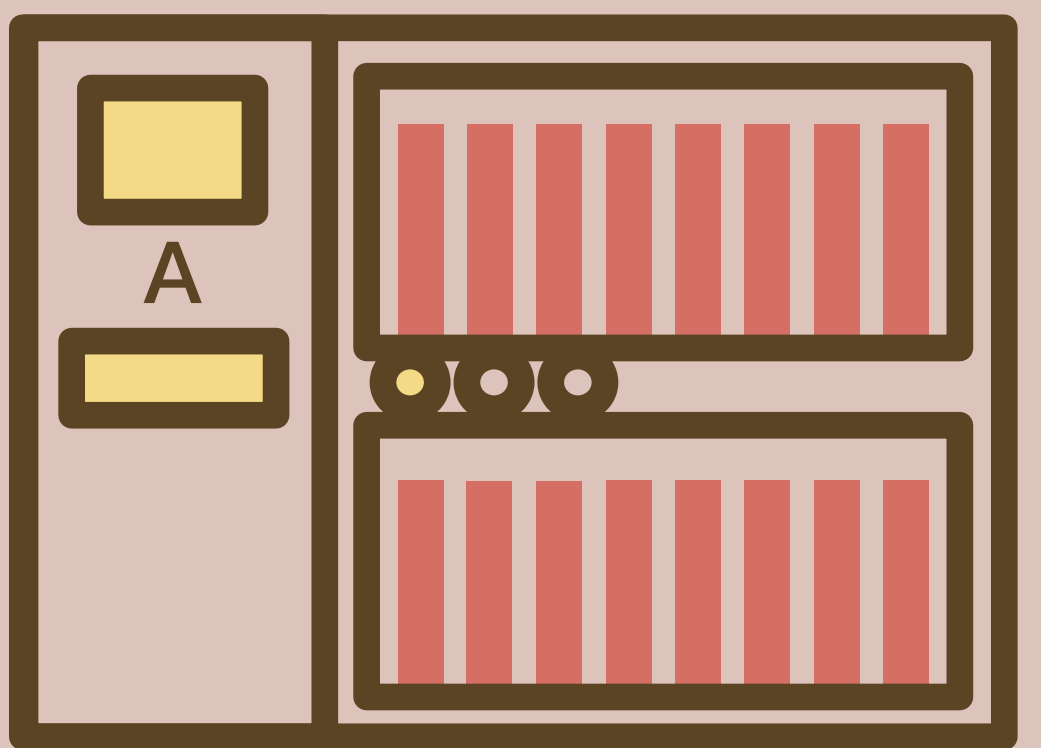
RFID Tags

Internet of Things

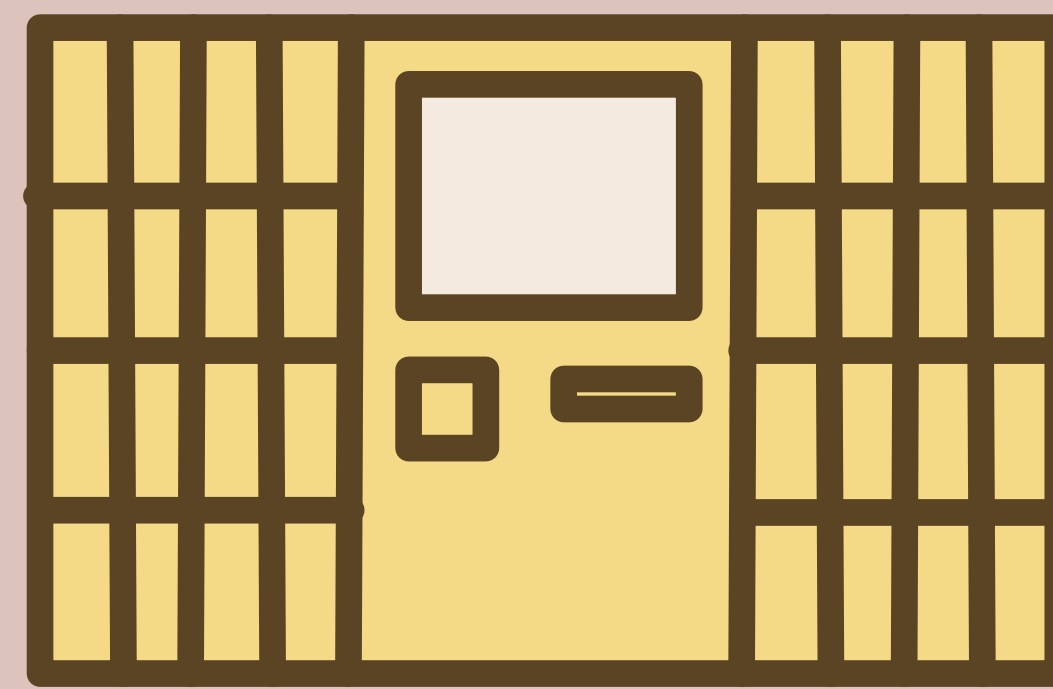
Mobile Checkout Technology

RFID Bookshelf

- The bookshelf signage and guide lights can guide readers to pick up books.
- The antenna in the bookshelves detects the location of books in real time.



Self-pickup Locker



- Metallic books, large format books, and restricted books management.
- Open the designated cabinet door by sensing the library card.

Reserved Book Management System

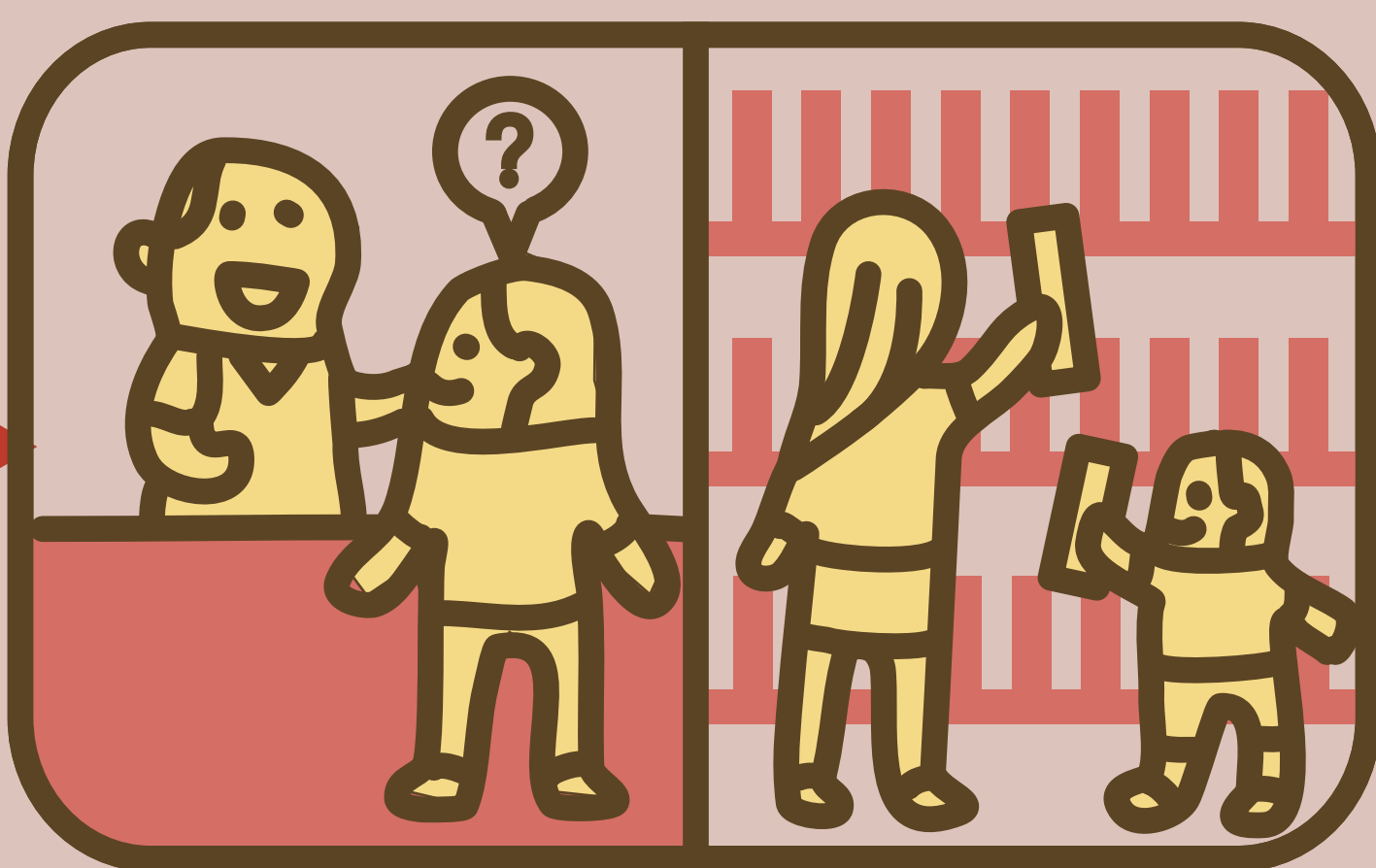
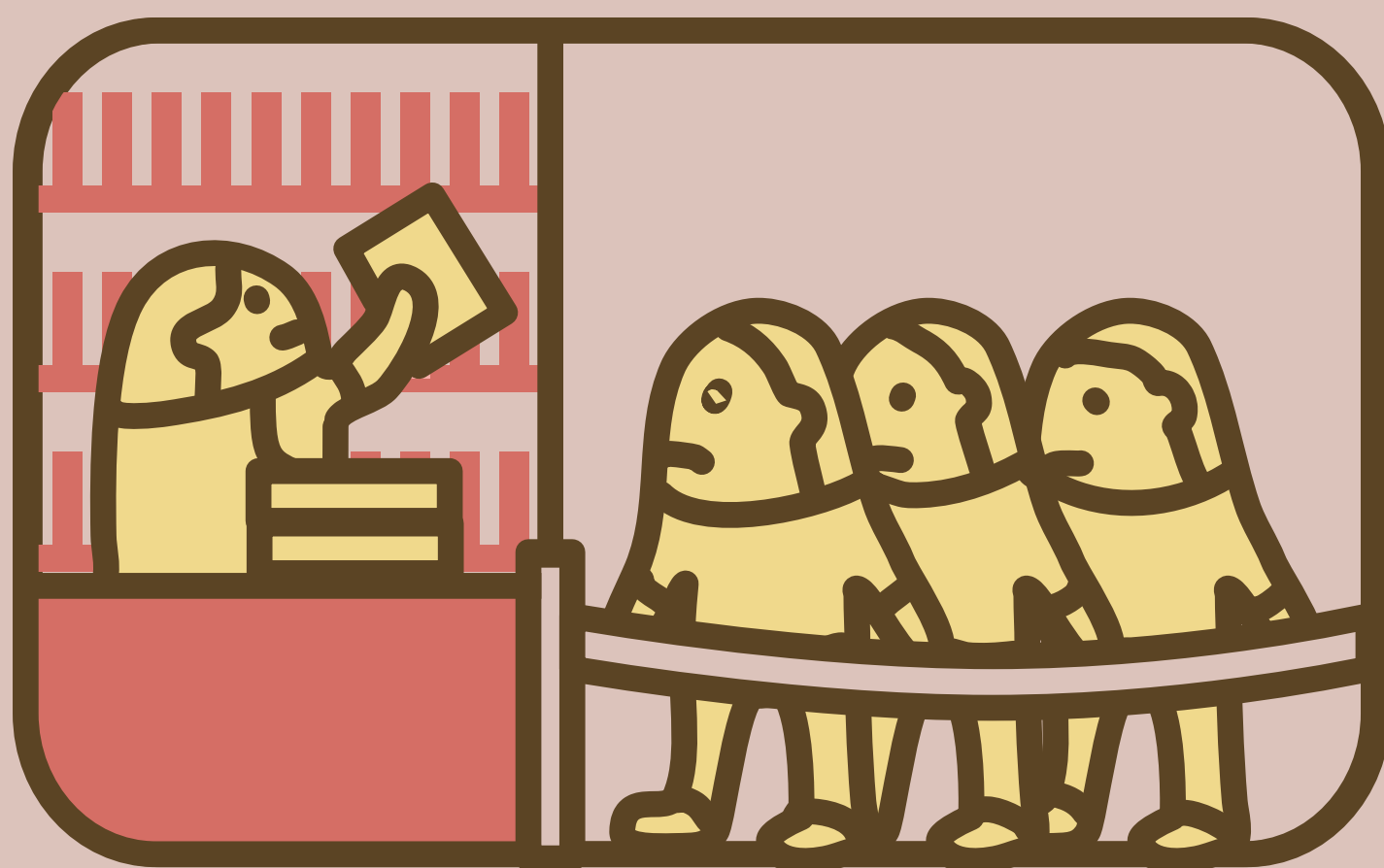


- Add / delete items from reservation bookshelves
- Book location management
- Incident & Statistical report

SDG GOALS 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

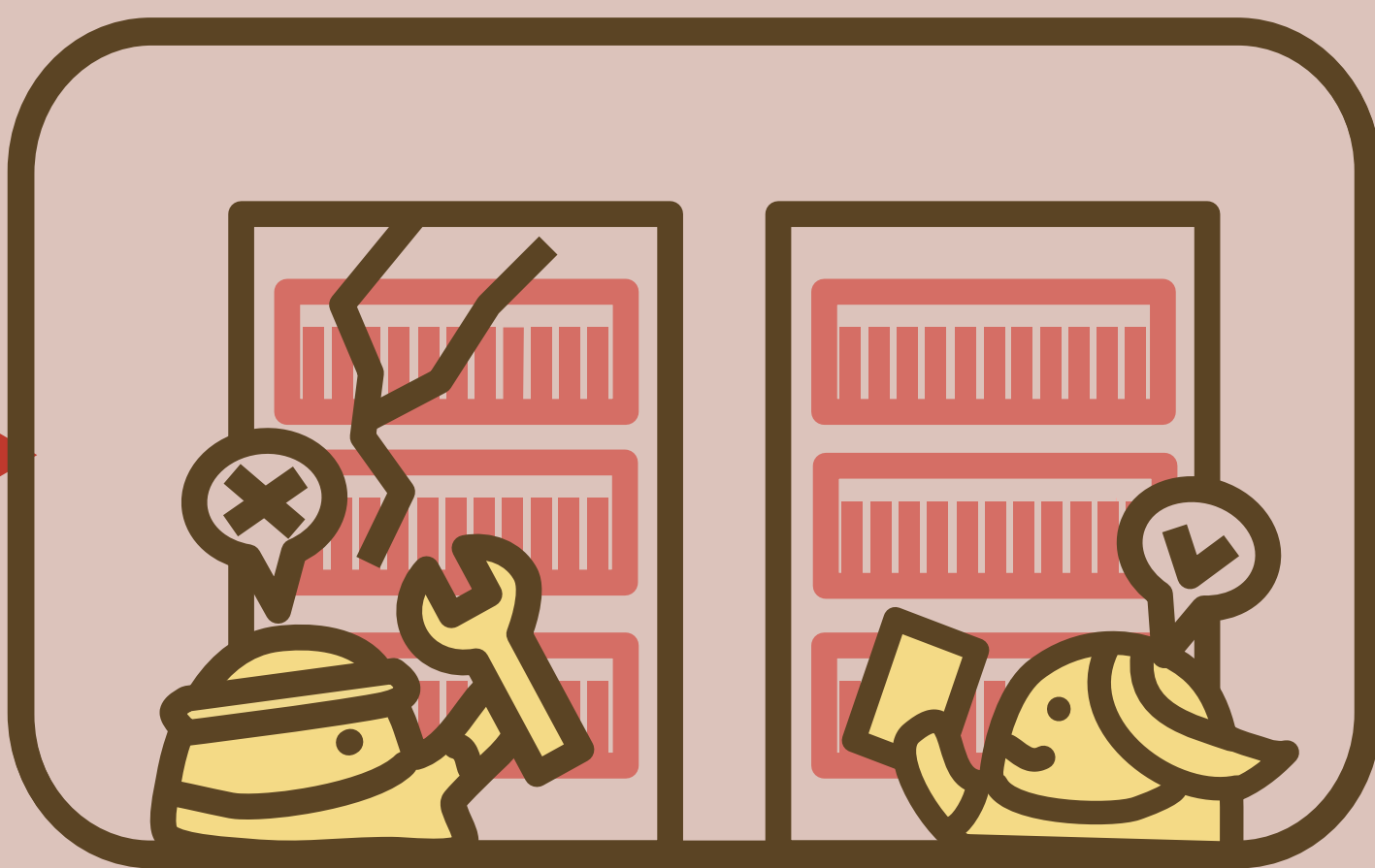
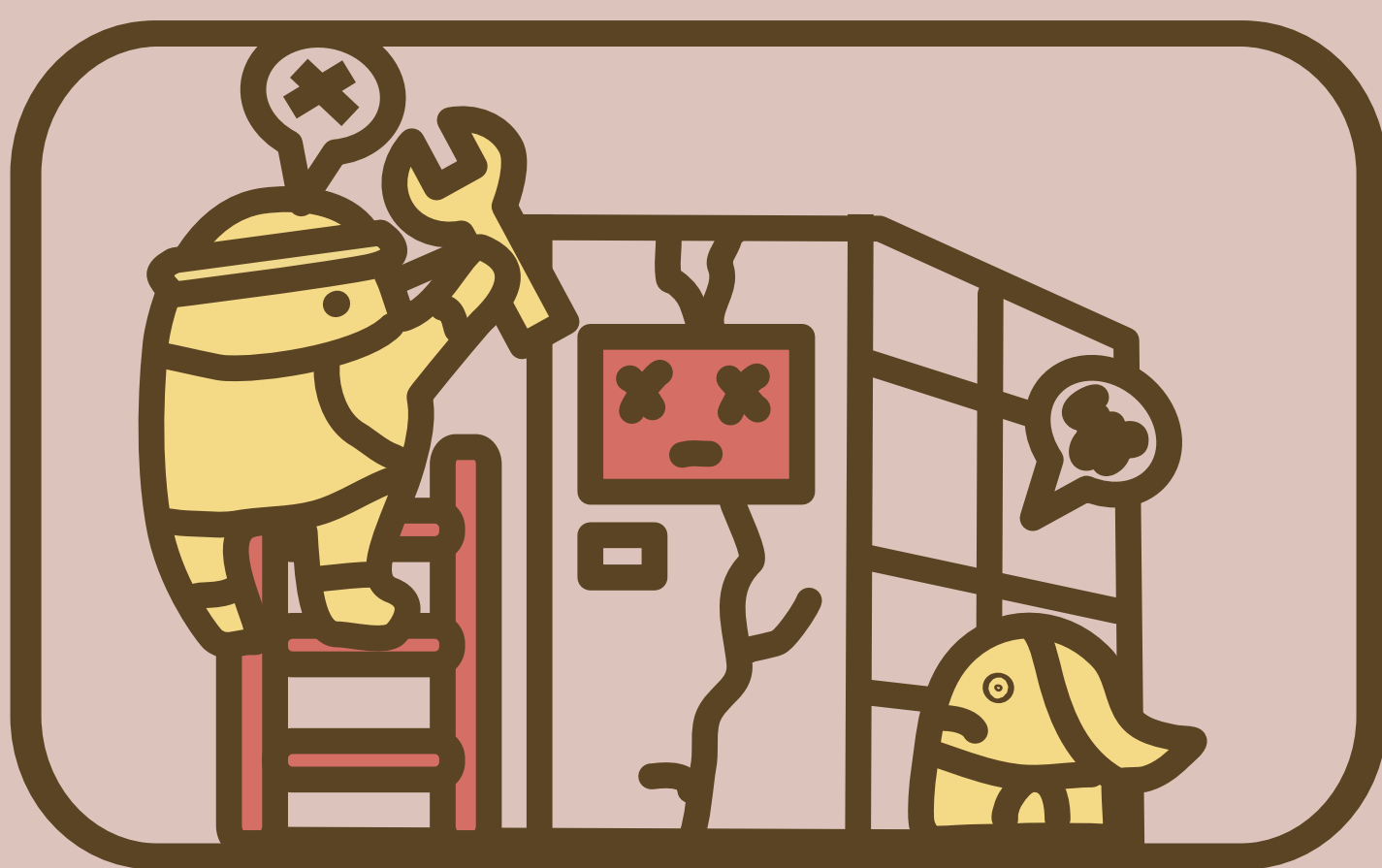
Highly Efficient Reserved Book Management

SDG GOALS 8 DECENT WORK AND ECONOMIC GROWTH



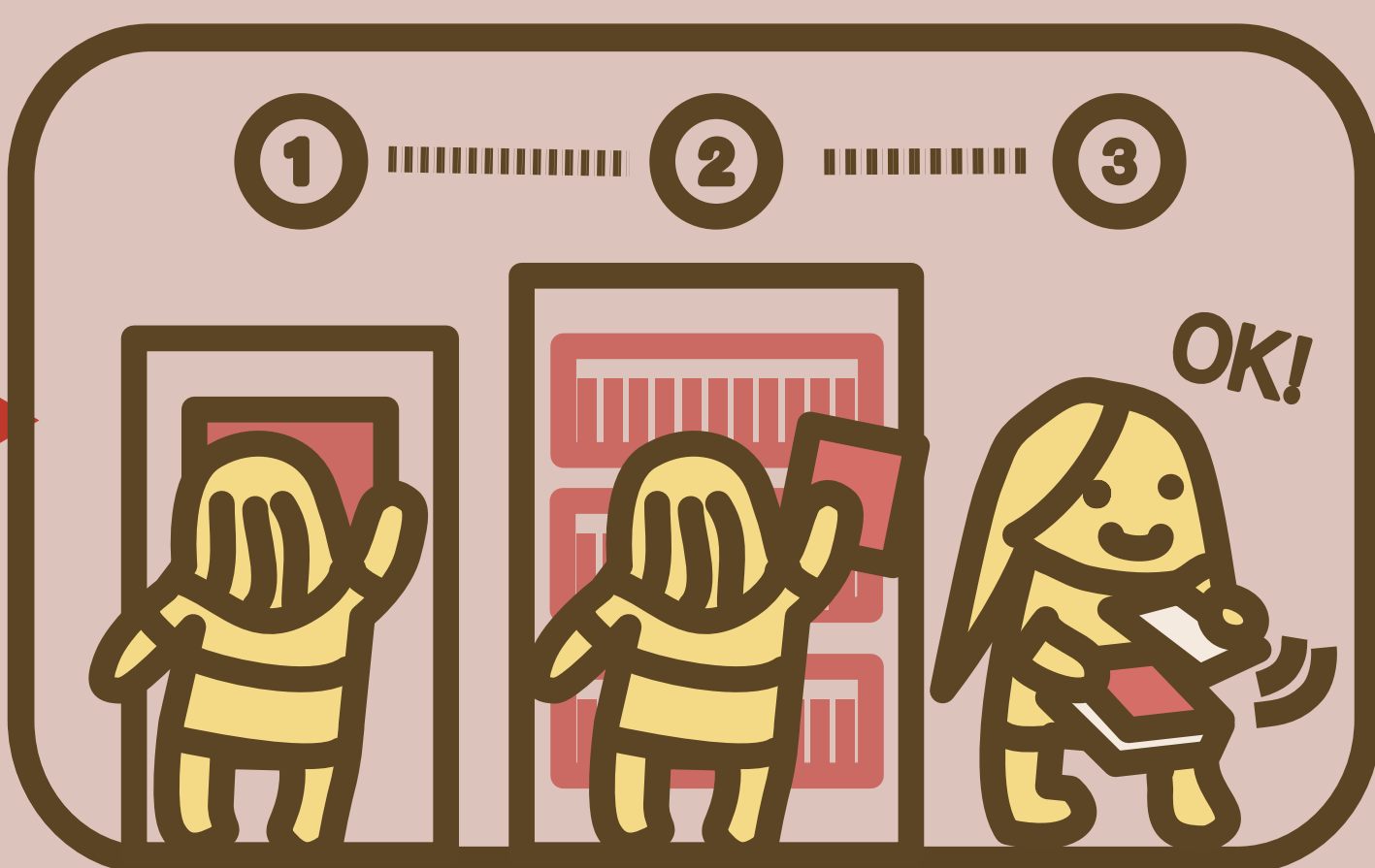
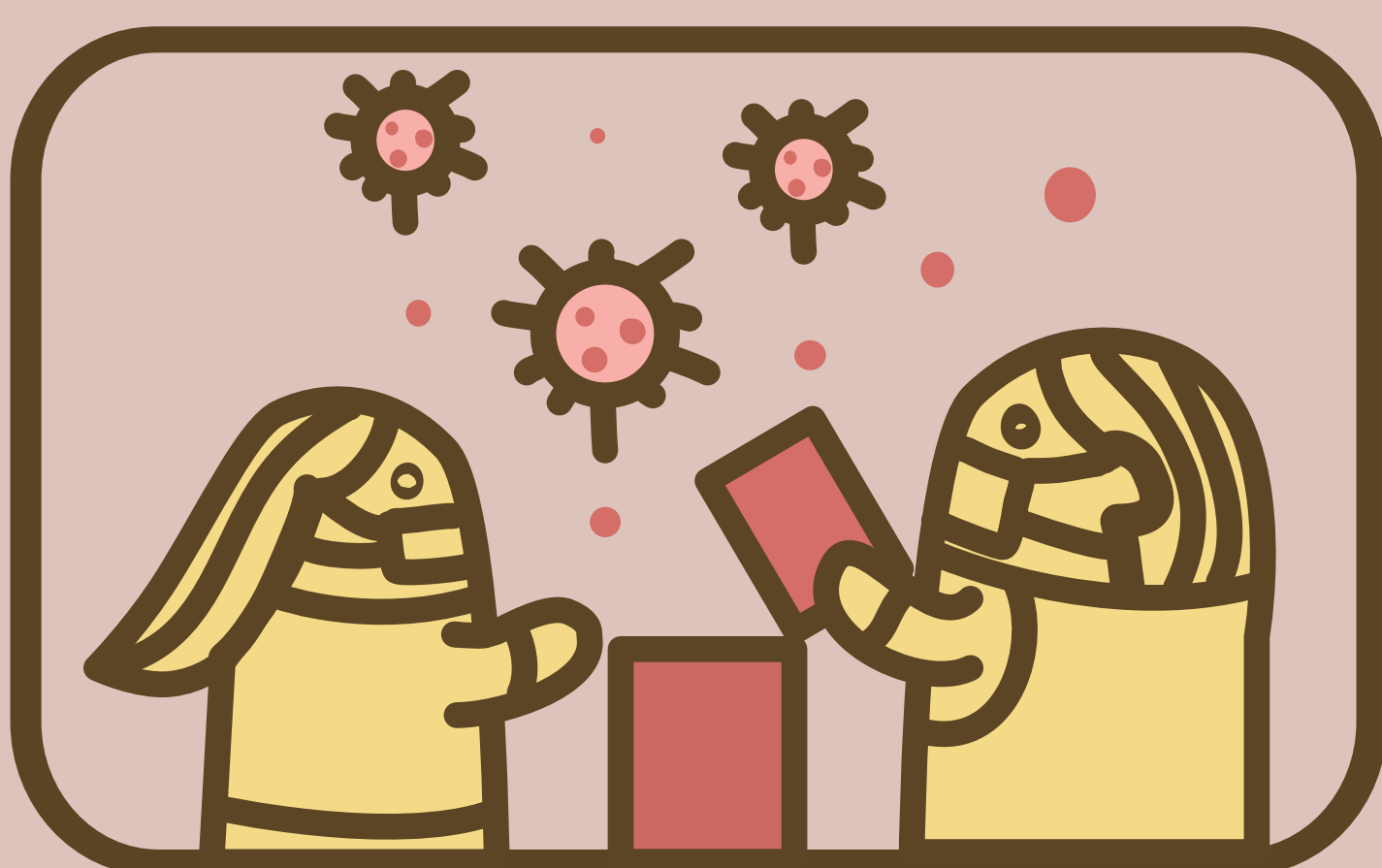
Ease the workload of staff

- The open-shelf management system allows multiple readers to pick-up reserved books at the same time.
- The security gate can reduce the loss rate of reserved books.



With more flexibility

- Each device can be maintained or upgraded independently.
- Contain a greater number of books while occupying less space compared to self-service pickup lockers.



Zero-Touch Service

- Readers can check out reserved book through self-service without the assistance from librarians.
- Mobile checkout allows multiple readers to check out books at the same time.

Increasing Reservation Requests and User Satisfaction

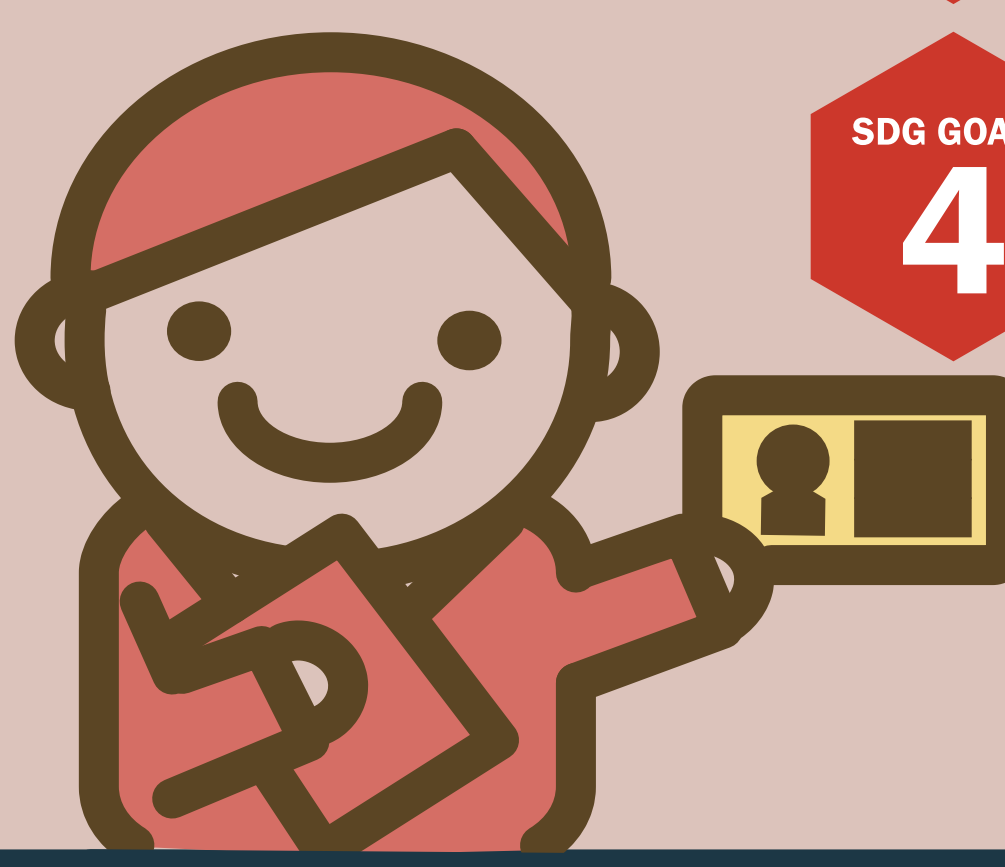
User Satisfaction

4.6/5

Reservation Requests 50% Increased



Decreasing Digital Gap and Supporting Lifelong Learning



SDG GOALS 1 NO POVERTY

SDG GOALS 4 QUALITY EDUCATION