



RFID FOR MODERN LIBRARIES

YOUR FOREMOST STEP TO LIBRARY AUTOMATION!



In Partnership with BestBookBuddies

WELCOME

This presentation will explore the role of Radio Frequency Identification (RFID) technology in modern libraries, revolutionizing circulation, security, and inventory management. Whether you're a librarian, administrator, or technology enthusiast, you'll discover how RFID enhances efficiency, improves user experience, and streamlines daily operations.

Let's begin!



Presented by Team BestBookBuddies

2CQR: A Decade of Expertise in RFID Automation

2CQR is a trusted provider of RFID solutions, empowering 350+ libraries across India with seamless automation, security, and operational efficiency.

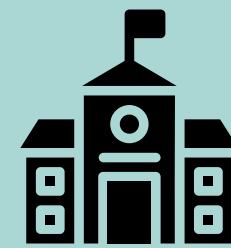
We work with libraries of all size & categories:

- ✓ Public & Government Libraries
- ✓ Universities & Institutions
- ✓ Corporate & Private Libraries



Proven Expertise

10+ years of innovation in RFID solutions, transforming library management with cutting-edge technology and industry-leading support.



350+ Successful Deployments

Trusted by public, government, academic, and corporate institutions, ensuring seamless operations and enhanced user experience.



Seamless Security & Automation

Automate check-ins, checkouts, and inventory tracking while preventing theft, reducing human errors, and improving operational efficiency.

RFID & Its Library Applications

Understanding Your First Step Toward Library Automation!

How an RFID Library System Works

An RFID Library System operates by attaching RFID tags to library materials (e.g., books). These tags emit a signal when scanned by an RFID reader, which then communicates with the library's software to instantly update the item's status.

This real-time update includes check-in/check-out status, item location, and availability, ensuring seamless tracking and management. By providing instant access to material status, RFID enhances efficiency, reduces manual workload, and creates a more organized, user-friendly library experience.

Advantages of Adopting RFID

1 Faster Transactions & Better Patron Experience

RFID streamlines book check-ins and check-outs, allowing librarians to process multiple transactions at once. This reduces wait times, enhances efficiency, and improves the overall library experience.

2 Cost-Effective in the Long Run

While the initial setup requires investment, RFID automation lowers operational costs by reducing manual labor and preventing inventory loss—leading to significant long-term savings.

3 Seamless Circulation Process

Automating routine tasks like book returns and checkouts speeds up circulation. RFID enables batch scanning, real-time updates, and instant availability status, ensuring smooth operations.

4 Optimized Inventory & Stock Management

RFID enables real-time tracking of library materials, helping librarians efficiently manage collections, reduce misplaced books, and maintain accurate stock records.

5 Enhanced Security & Loss Prevention

Integrated with access control systems (e.g., security gates), RFID minimizes unauthorized removals and theft. It ensures compliance with proper check-out protocols, protecting valuable library assets.

6 Data-Driven Decision Making

RFID-powered analytics provide insights into patron preferences, borrowing trends, and book circulation. This data helps librarians refine collection development strategies and align resources with user needs.

Built for a Hassle-Free Experience



RFID vs. Barcoding

A Solution That Scales with You!

Smarter, Faster, and Future-Ready!

Feature	RFID Technology	Barcode System	Manual/Traditional Methods
Transaction Speed	✓ Faster – Multiple books scanned at once	✗ Slower – One book scanned at a time	✗ Very slow – Manual entry for each book
Inventory Management	✓ Better accuracy – Real-time stock updates	✗ Prone to errors – Requires manual scanning	✗ High error risk – No instant updates
Security	✓ Fewer losses – Anti-theft RFID tags	✗ Limited – Barcode doesn't prevent theft	✗ No security – High risk of misplaced books
Self-Service	✓ Fully automated – Patrons check out independently	✗ Requires librarian assistance for scanning	✗ Manual check-out process only
Efficiency	✓ 100% automated – Eliminates human errors	✗ Prone to mis-scanning & misplaced books	✗ Labor-intensive, requiring continuous supervision
Multi-Book Scanning	✓ Yes – Scan multiple books instantly	✗ No – Must scan one barcode at a time	✗ No – Requires manual logging of each book
Integration with LMS	✓ Seamless integration with KOHA & other systems	✗ Limited – Requires additional software	✗ No direct system integration
Implementation Cost	◆ Medium – Higher initial cost, but cost-saving long-term	✓ Low – Affordable but NOT efficient	✗ High – Requires more staff and effort
Long-Term Benefits	✓ High – Improves productivity & reduces workload	✗ Moderate – Still needs manual effort	✗ Low – Time-consuming and error-prone



RFID ESSENTIALS FOR MODERN LIBRARIES

AUTOMATE UP TO 60% OF YOUR DAILY TASKS



Staff Station

Efficient book processing with real-time tracking, reducing manual work and enhancing accuracy for a seamless library management experience.



Security Gates

Advanced theft prevention with automated alerts, ensuring secure access and a protected environment for both patrons and library staff members.



Entry-Exit System

Secure, controlled access for visitors, employees, and vehicles, integrating seamlessly with authentication systems to enhance overall safety and security.



Smart Shelf

Smart sensors and intuitive tracking, simplifying book location and retrieval while optimizing organization for a better library experience overall.



Bio-attendance Software

Revolutionize attendance management with our Bio Attendance System, offering secure, accurate, and seamless clock-ins



Self-Serving Kiosks

Designed to reduce wait times and free up staff for more valuable tasks, our kiosk enhances the library experience.



E-Gate System

Our advanced E-Gate System enhances library security with RFID and biometric verification, ensuring seamless entry and exit tracking. Integrated with Library Management Software, it provides accurate user authentication and real-time monitoring.



Book Drop Box

Simplify book returns with our RFID Book Drop-Box! Patrons can return books anytime, even after hours, with secure RFID tracking. Libraries gain valuable insights to enhance collections and user experience.



**For A Seamless Experience
Defined by
Innovation and Efficiency!**

Customizable in any size

Customizable in any color

Upto 10 Years Guarantee

BENEFITS & SAVINGS



30%

Faster Checkouts

Self-Service Kiosks cut Check-In/Check-Out Times, Improving Efficiency

40%

40% Fewer Inventory Losses

RFID Tracking and Security Gates actively Prevent Theft & Misplacement

Maximize Efficiency, Minimize Effort

Imagine a library where patrons Checkout Books in Seconds, Inventory Updates happen in Real-Time, and security Prevents Unauthorized Removals—all without manual intervention.

75%

Better Stock Accuracy

Real-Time Updates ensure Precise Cataloging and Availability

100%

Automated Circulations

Eliminates Manual Errors, Optimizes Workflows, and Enhances Efficiency

**STICK
AROUND
FOR AN
IN-DEPTH
SHOWCASE**

STAFF SOLUTIONS

Achieve Better Work-Life Balance

Less Repetitive Work

Automated checkouts and returns reduce manual scanning, freeing up time for more engaging tasks.

Easier Asset Tracking

Instantly locate books and materials, minimizing time spent searching for lost or misplaced items.

Smoother Daily Operations

Reduced desk congestion and self-service options allow librarians to focus on meaningful patron support.



Dedicated Staff Station

Streamlining Book Transactions with Advanced Tagging and Reading Technology



The RFID Staff Station is a key component of an RFID Library Management System, designed to streamline book transactions and improve workflow efficiency.

 **RFID-Powered Transactions:** Uses RFID Book Tags or Labels and RFID Readers to quickly process check-ins, checkouts, and renewals.

 **Versatile Tagging Support:** Compatible with LF (Low Frequency), HF (High Frequency), and UHF (Ultra High Frequency) tags, similar to traditional book labels in size and usability.

 **Automated Inventory Management:** Easily track and update library collections in real-time, reducing errors and manual work.

 **User-Friendly Interface:** Designed for seamless navigation, minimizing training time for staff while maximizing efficiency.



Central Admin Software

2CQR's Central Admin Software seamlessly integrates with Self-Service Kiosks, DropBoxes, Security Gates, and Entry-Exit Systems, serving as the core hub for managing the entire RFID library ecosystem.



Seamless System Integration – Connects with all RFID-enabled devices, ensuring smooth and automated library operations.



Unauthorized Movement Tracking – Detects and alerts staff about unauthorized book removals, enhancing security.



Real-Time Monitoring – Provides instant updates on book loans, renewals, returns, and overdue items.



User-Friendly Dashboard – Offers an intuitive interface for easy navigation and efficient resource management.



Automated Transactions – Streamlines issue, return, and renewal processes, reducing manual workload for staff.



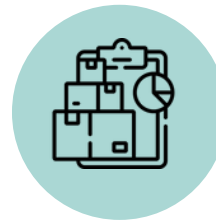
Customizable Reports & Analytics – Generates detailed insights into patron activity, circulation trends, and inventory tracking.



Stock Control Device

For Efficient Book stock Management

The Library RFID Stock Control Device by 2CQR simplifies inventory management by quickly scanning bookshelves and locating misplaced or missing books, ensuring efficient stock control.



Effortless Stock Management : Quickly scan bookshelves to track inventory, reducing manual effort and saving time.



Locate Missing & Misplaced Books : Easily identify misplaced or missing books, ensuring accurate shelf organization and availability.



Bulk Security Activation : Activate security for all books at once, streamlining protection and preventing unauthorized removal.



Quick & Easy Installation : Set up within three days with minimal disruption to library operations and services.



Seamless System Integration : Compatible with existing library software, ensuring smooth implementation without technical issues.



Comprehensive Training & Support : Librarians receive hands-on training and ongoing support for efficient device usage and management.

E-GATE SYSTEM FOR HASSLE-FREE ACCESS MANAGEMENT

Automated entry and authentication reduce repetitive tasks, allowing staff to focus on security and efficiency.



Seamless Access Control

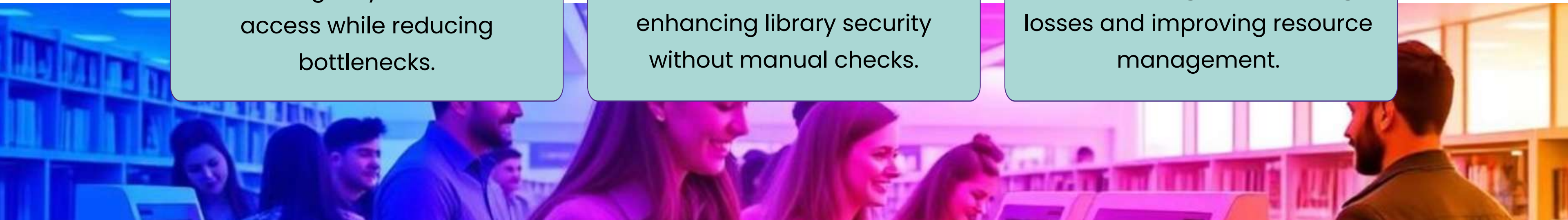
RFID-enabled security gates streamline entry and exit, ensuring only authorized access while reducing bottlenecks.

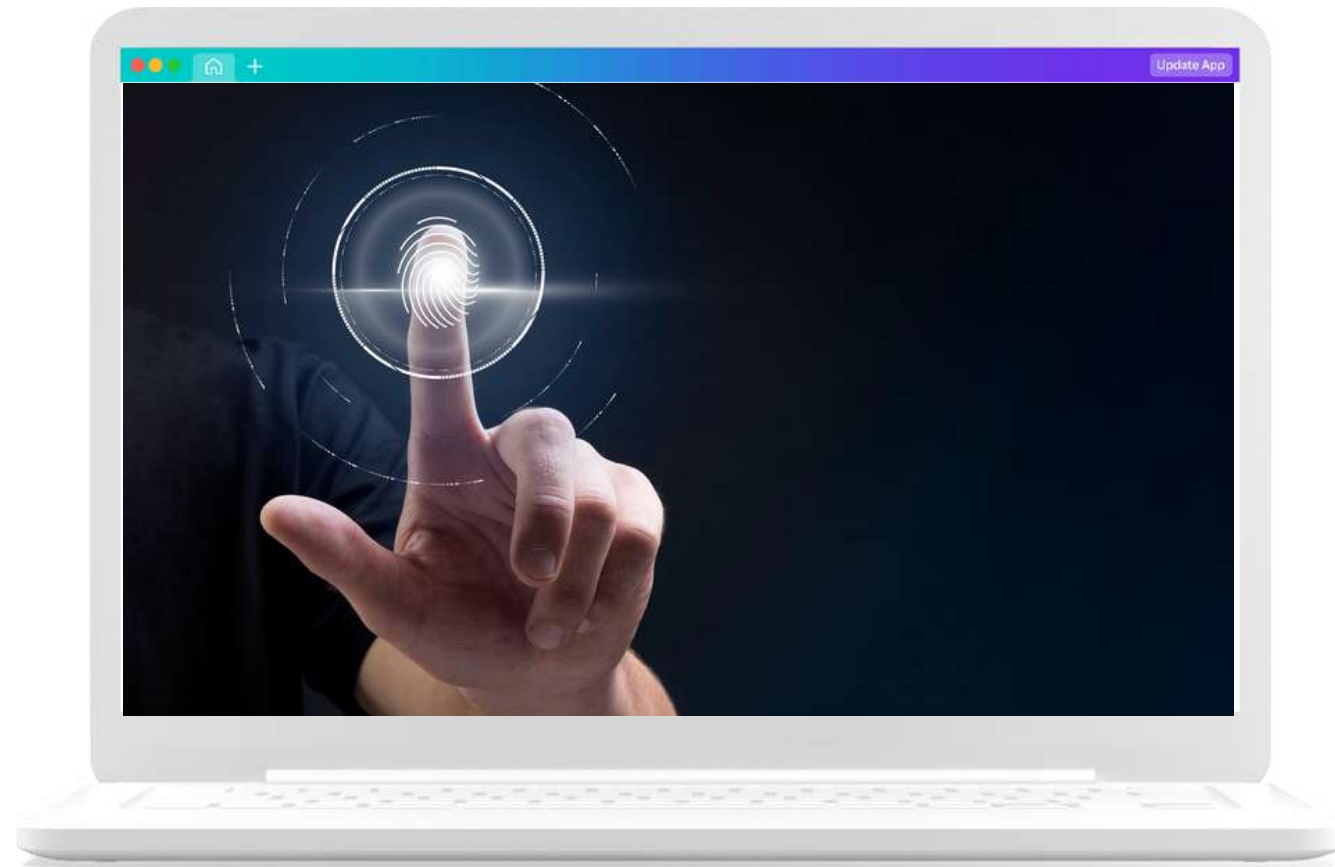
Theft Prevention

Automated detection systems help prevent unauthorized removal of materials, enhancing library security without manual checks.

Effortless Monitoring

Real-time tracking of items and visitor movement allows for better oversight, minimizing losses and improving resource management.





Bio-Attendance Software

Smart, Secure & Efficient

Say goodbye to manual attendance hassles! Our Bio-Attendance Software uses cutting-edge RFID and biometric authentication to ensure precise, real-time tracking for employees and students.



Automated Attendance Tracking – Combines RFID and biometric authentication for real-time, hassle-free check-ins and check-outs.



Comprehensive Reporting – Generate detailed attendance insights with customizable reports on daily, weekly, and monthly trends.



Multi-Location Support – Install devices across different library sections for accurate patron tracking and usage analysis.



Fast & Easy Integration – Quick installation, seamless integration with existing systems, and customizable design.



Reliable Support & Training – Get expert installation, hands-on training, and dedicated post-installation customer support.



Entry-Exit System

Secure, Reliable Access Points

Prevent unauthorized access while seamlessly tracking patron movements. Our system integrates RFID or biometric authentication for secure entry and exit. Strategically install multiple access points across library sections and integrate with flap barriers, turnstiles, or magnetic locks for enhanced security and control.



Advanced Access Control – Prevent unauthorized entry with RFID and biometric authentication, ensuring secure and restricted access.



Multi-Location Installation – Strategically install access points across different library sections like General Reading, Digital Library, and Exam Halls.



Seamless System Integration – Easily integrate with 20+ Library Management Systems and existing university databases for smooth operation.



Comprehensive User Tracking – Monitor real-time patron movements, generate attendance logs, and export detailed reports in Excel or PDF.



Customizable & Scalable – Tailor both hardware and software to fit library needs, with features like webcam integration and automatic data sync.



Security Gates

Protect, Track, and Manage Access with Ease

Stop unauthorized book removal while seamlessly tracking patron entries and exits. Our advanced RFID Security Gate offers real-time alerts, multi-gate scalability, and smooth integration with your library system.



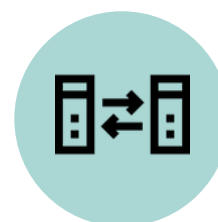
Real-Time Security Alerts – Instantly detects unauthorized book removals and triggers alarms, ensuring library resource protection.



Seamless Access Control – Monitors patron entry and exit with RFID tracking, improving security and attendance management.



Customizable Security Settings – Adjust alarm volume, patterns, and gate sensitivity to match library-specific security needs.



Advanced Multi-Gate Scalability – Supports multiple gate installations for enhanced security across large library entrances and exits.



Energy-Efficient & Reliable Operation – Includes UPS backup for uninterrupted security, even during power outages, ensuring 24/7 protection.

Self-Service Solutions

Boost User Satisfaction

Empowerment

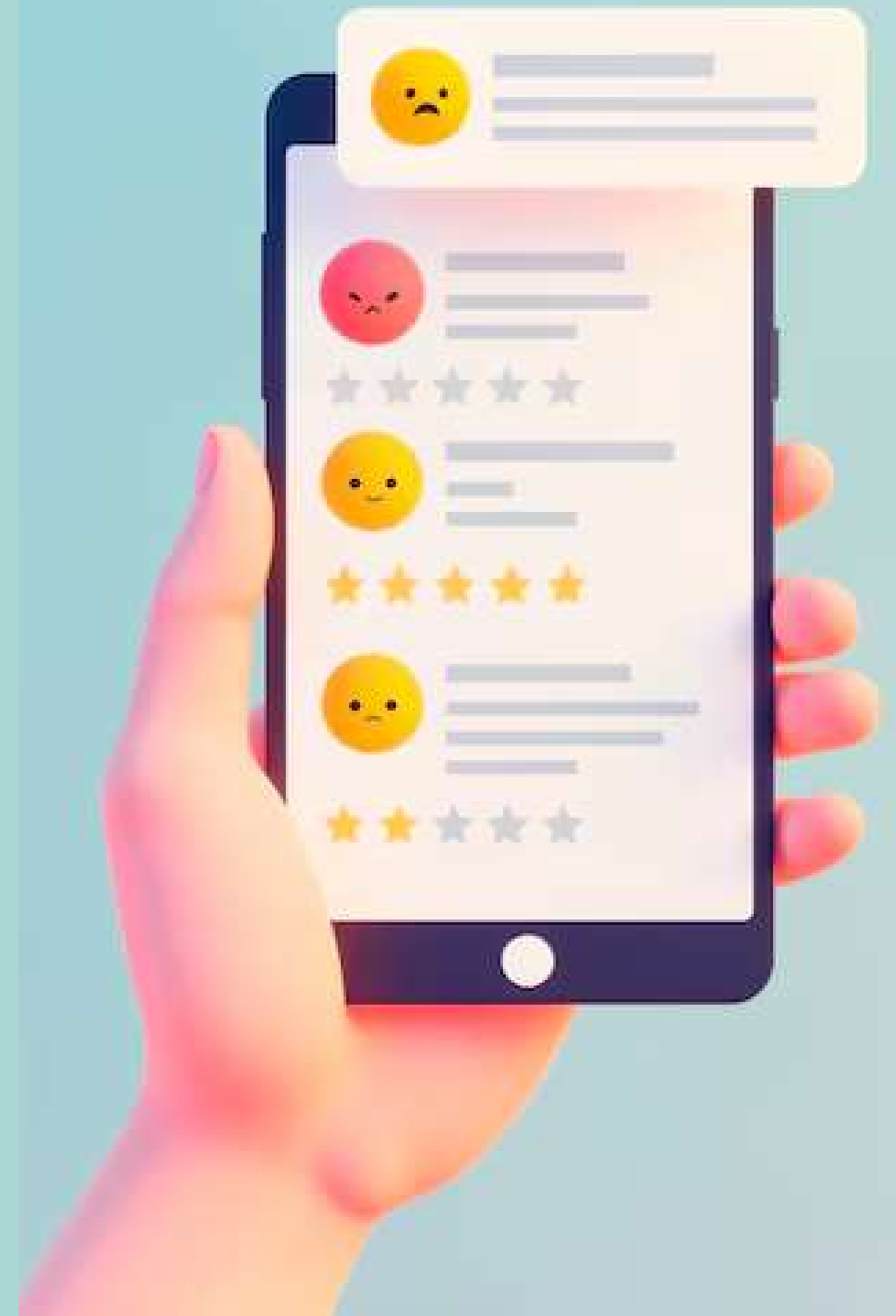
Users manage checkouts. They can do this at their own pace.

Reduced Congestion

Fewer lines at the desk. Staff can focus on support.

Increased Privacy

Users manage their activity. They gain control over their data.





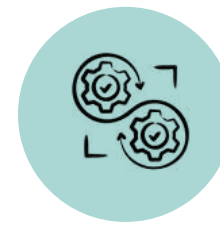
Self-Serving Kiosk

For Effortless Book Transactions

Our RFID Self-Service Kiosk simplifies book borrowing, returning, and renewal, giving patrons full control over their transactions. With seamless integration, real-time updates, and enhanced security, libraries can reduce staff workload while improving efficiency.



Flexible Authentication – Patrons can log in using RFID cards, biometrics, barcodes, or facial recognition.



Seamless Integration – Connects effortlessly with 20+ Library Management Systems for smooth operation.



Instant Transaction Updates – Receipts sent via SMS, email, or printed confirmation.



Enhanced Security & Verification – Supports single or dual authentication for added safety.



Customizable & User-Friendly – Multi-language support and personalized kiosk design to fit your library's needs.



Smart Shelf

Smart Returns, Zero Hassle

2CQR's RFID Intelligent Shelf revolutionizes book returns by automating the process, reducing staff workload, and making returned books instantly available for the next user. Simply place the book on the shelf, and the system takes care of the rest.



High-Speed & Simultaneous Book Returns – Enables multiple users to return books instantly, updating the library system in real-time.



Automated & Streamlined Processes – Eliminates manual intervention by automating returns, reducing processing time for staff and patrons.



Instant Availability & Security Activation – Books are immediately marked as available in the system, with RFID security reactivated upon return.



Seamless System Integration – Compatible with RFID HF, UHF, EM technologies, and over 20 Library Management Systems.



User-Friendly & Multi-Language Support – Features intuitive software with support for multiple languages, enhancing accessibility for all users.



Customizable Reports & Smart Notifications – Provides detailed return statistics and confirms transactions via SMS, email, or printed receipts.



THANK YOU

*We look forward to working
with you*



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