

Case Study: Bookstore Kiosk App

A modern, cozy self-service kiosk experience for “Book Nook” Bookstore

Overview

The Book Nook Bookstore wanted to enhance its in-store experience by making book discovery and checkout faster, more enjoyable, and more in line with its brand identity — cozy, artisanal, and reader-friendly. Many bookstore visitors struggle to **locate books quickly** or **face long checkout lines**, reducing customer satisfaction and impacting sales. Our kiosk solution bridges this gap by offering two primary modes:

1. **Find & Browse Flow** → helping customers search, locate, and explore books.
2. **Quick Scan & Checkout Flow** → enabling users with books in hand to self-checkout efficiently.

The goal was to **increase customer engagement**, **streamline the in-store journey**, and create a **seamless retail + digital hybrid experience**.

As the **UX/UI Designer**, I followed the **Double Diamond process** (Discover → Define → Develop → Deliver) to ensure research-driven, user-centered design.

- Role: Lead UX/UI Designer
 - Tools: Figma, Illustrator
 - Process: Double Diamond (Discover → Define → Develop → Deliver)
 - Duration: 8 weeks
-

1. Discover – Understanding the Problem

Problem Exploration

- Customers often **struggle to find books** due to poor in-store navigation.
- Staff frequently spend time answering basic “Where is this book?” questions, diverting them from higher-value tasks.
- Long checkout queues cause **cart abandonment** or deter impulse buys.

Research Methods

- **User Interviews (12 participants):** Mix of casual readers, students, and frequent bookstore visitors.

Who & why

- Mix of casual readers, students on a mission, frequent visitors.
- Goal: uncover motivations, mental models, and blockers across “browse” vs “get in, get out” journeys.

Method

- Semi-structured 30–40 min sessions; task walkthroughs (“find a book you want,” “check out quickly”).
- Stimulus: low-fi screen sketches for reaction.



- **Observation Study (in-store shadowing):** Shadowed bookstore visitors to track pain points.

Who & why

- Naturalistic observation of shoppers from entry → purchase.
- Goal: validate real behaviors (not just stated) and time sinks.

Method

- Contextual observation during peak & off-peak periods; discreet timing of steps (browse, ask staff, locate shelf, queue, checkout).
- Heat-notes on where people slow down or pivot.

Behavioral patterns

Staff dependency:
many shoppers ask
for directions even
after scanning signs.

Shelf scanning loop:
repeated passes
across the same bay;
users often miss
spine-out titles.

Queue drop-off:
visible long lines
correlate with higher
"I'll come back later."

Micro-browsing: after
locating a title, users
linger to discover
adjacent books—ripe
for recommendations.

Device juggling:
phones out to check
reviews/price; then
back to shelf—
interruptive flow.

Design Implications

Prominent "Locate in
Store" with shortest-
path visual + shelf
photo cue.

On-shelf confirmation
cue (cover image +
color stripe to match
shelf tag).

**Fast lane checkout
for ≤2 items.**

Contextual recs in
detail view ("nearby
on this shelf")

QR to mobile handoff
for reviews without
breaking the flow.

- **Stakeholder Interviews:** Store managers and staff shared operational challenges.

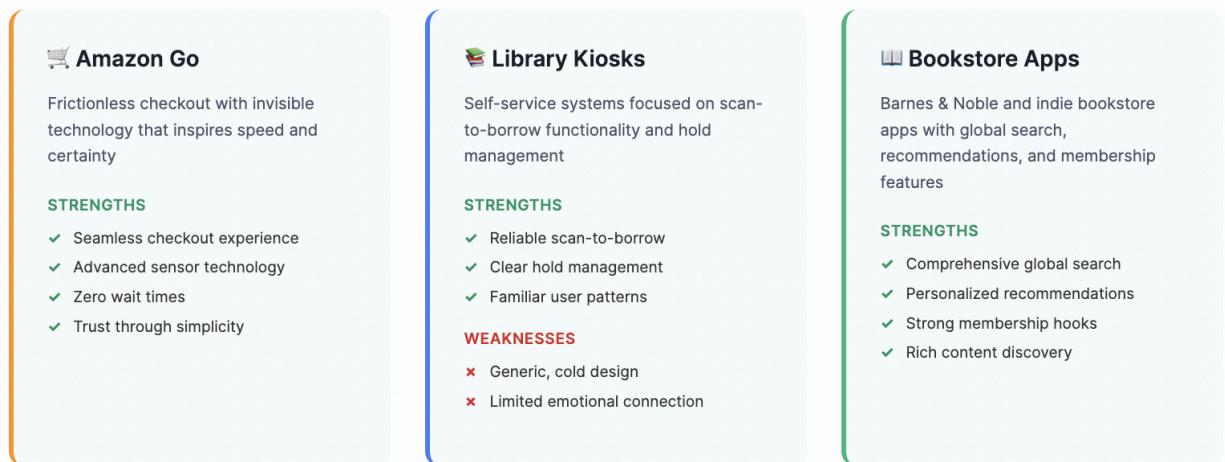
Why

- Understand operations, constraints, and success measures.



- **Competitive Analysis:** Benchmarked against Amazon Go, library kiosks, and bookstore apps.

🔍 What We Looked At



Patterns & Gaps

Strengths to Borrow

- Global search with forgiving input (typos, fuzzy match)
- Progress states (e.g., "Hold placed → Ready for pickup")
- Fast confirm microinteractions that build trust

Gaps to Differentiate

- Aesthetic warmth & storytelling (most competitors feel generic)
- In-store maps that translate aisle codes → human language
- Blending browse delight with checkout speed in one surface

Feature Decisions Influenced

Two-Mode Entry

Match user intent with browse vs. quick pay options

Smart Search

NLU, typo tolerance, and filter chips for enhanced discovery

Interactive Map

"You are here" positioning with glowing shelf dots for navigation

Micro-Recommendations

Shelf adjacency insights: "People who picked this in Aisle 3 also loved..."

Flexible Receipts

Print/email/QR options with loyalty hooks without pushing app installs

Key Insights

- **Browsing Overload:** Customers loved browsing but often struggled to locate specific books. **85%** of users want a quick way to locate books in-store.
 - **Checkout Friction:** Long queues discouraged impulse purchases. **70%** expressed frustration with long queues.
 - **Assistance Dependency:** Many customers frequently asked staff to find books.
 - **Emotional Drivers:** Customers valued a *warm, cozy, bookish atmosphere*, not a cold, tech-heavy experience.
 - Staff desire a tool that reduces repetitive queries while still keeping the store's cozy vibe.
-

2. Define – Framing the Opportunity

Based on research, we mapped the **customer journey**:

1. Enter store → feels excited but overwhelmed.
2. Wants to browse or find a specific title.
3. Struggles to locate book physically.
4. Either waits in checkout line or leaves without purchase.

Problem Statement

“How might we design an in-store kiosk experience that blends technology with warmth, helps users find books quickly, and enables a seamless self-checkout experience while maintaining the **warm, cozy atmosphere** of a bookstore?”

UX Goals

- Reduce **time-to-find** for a book by at least 40%.
- Provide **self-service checkout** that is faster and intuitive.
- Provide **two modes**:
 - **Browse & Find** (for discovery)
 - **Quick Scan & Checkout** (for speed)
- Preserve bookstore's **literary + artisanal brand identity** through visuals & tone.

User Personas

1. **The Casual Browser (Emily, 26)**
Loves exploring but gets overwhelmed by too many categories. Wants inspiration + discovery.



2. The Goal-Oriented Shopper (Ravi, 35)

Comes with a specific title in mind. Needs **fast search + accurate location**.



Ravi, 35

The Goal-Oriented Shopper
Software Developer

"I come to the bookstore with a specific title in mind. I need to find it quickly and efficiently - no time for browsing around when I know exactly what I want."

Profile

Software developer who reads technical and non-fiction books. Has limited time to browse and often visits the store with a specific book already in mind.

Goals

- Quickly search for a specific title/author
- Locate the book in-store without confusion
- Check stock availability before heading to the shelf

Design Implications

- Prioritize a prominent search bar on home screen
- Add filters (author, genre, price) to improve accuracy
- Show real-time stock + exact location pin on store map

Frustrations

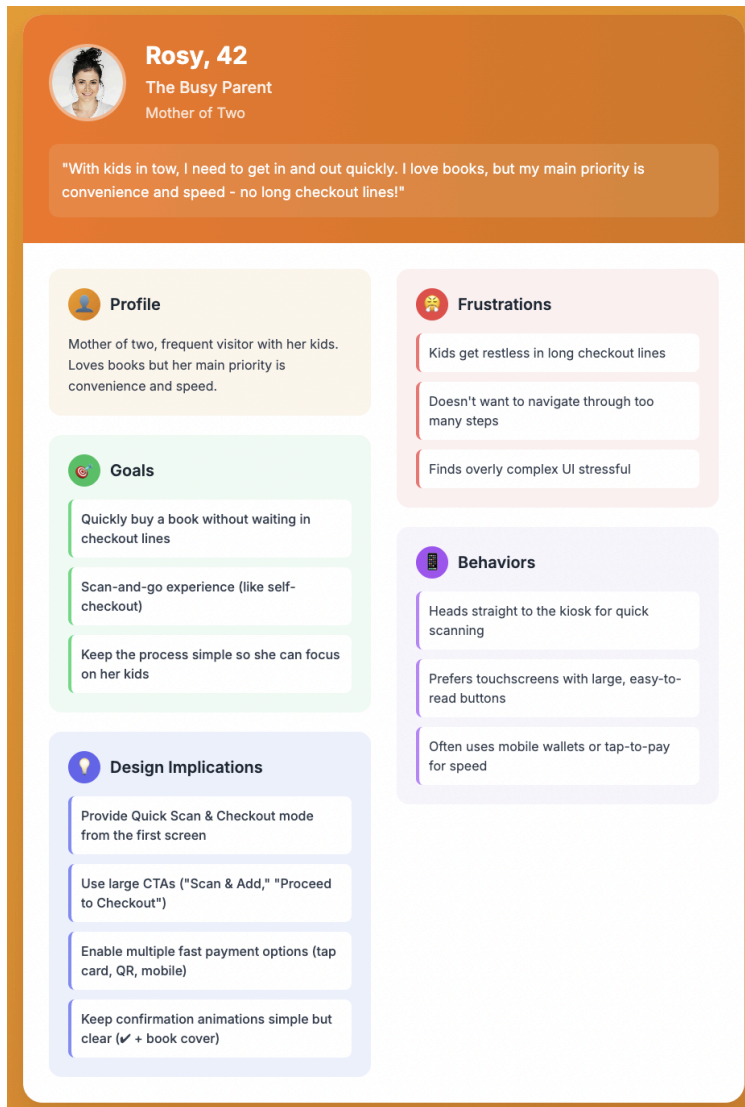
- Wastes time if search results aren't accurate
- Dislikes unclear signage or confusing store layouts
- Gets frustrated if he can't confirm stock availability

Behaviors

- Goes straight to the search bar in digital tools
- Rarely explores unless time allows
- Values speed, accuracy, and efficiency over aesthetics

3. The Busy Parent (Rosy, 42)

With kids in tow, wants a **quick scan & checkout** without waiting in line.



3. Develop – Ideation & Prototyping

Ideation Workshops

- Conducted sketching sessions with design team + bookstore staff.

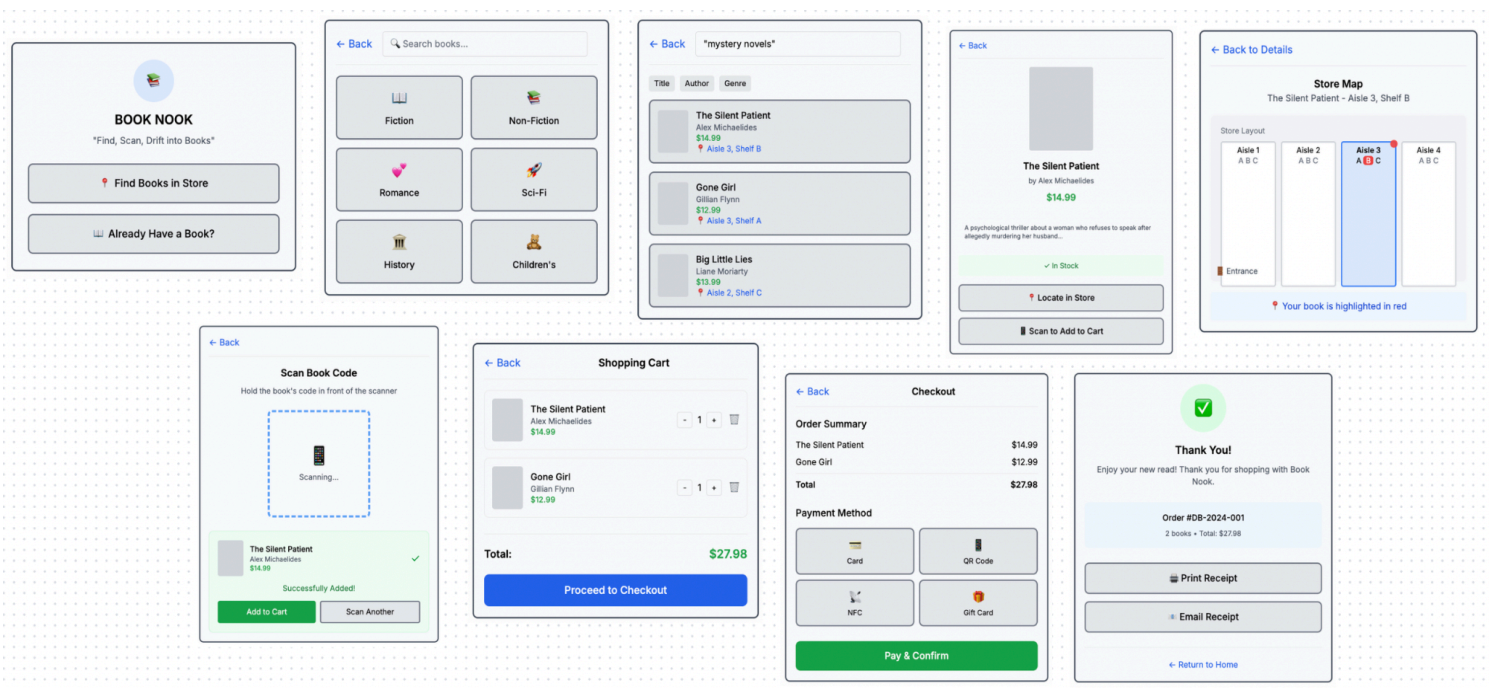
Information Architecture

Two key flows designed:

- **Mode 1: Find & Browse Flow** → Welcome → Browse/Search → Book Details → Store Map → Scan → Cart → Checkout → Thank You.
- **Mode 2: Quick Scan Flow** → Welcome → Scan → Cart → Checkout → Thank You.

Wireframing & Prototyping

- **Low-Fidelity Wireframes (Figma):** Tested layouts for scanning, browsing, and cart flow.
- **Mid-Fidelity Interactive Prototypes (Figma):** Included navigation patterns (bottom nav vs. top nav).
- Iterated through **3 rounds of feedback** with bookstore staff & test users.
- Created **high-fidelity prototypes** with illustration-rich UI to match brand.

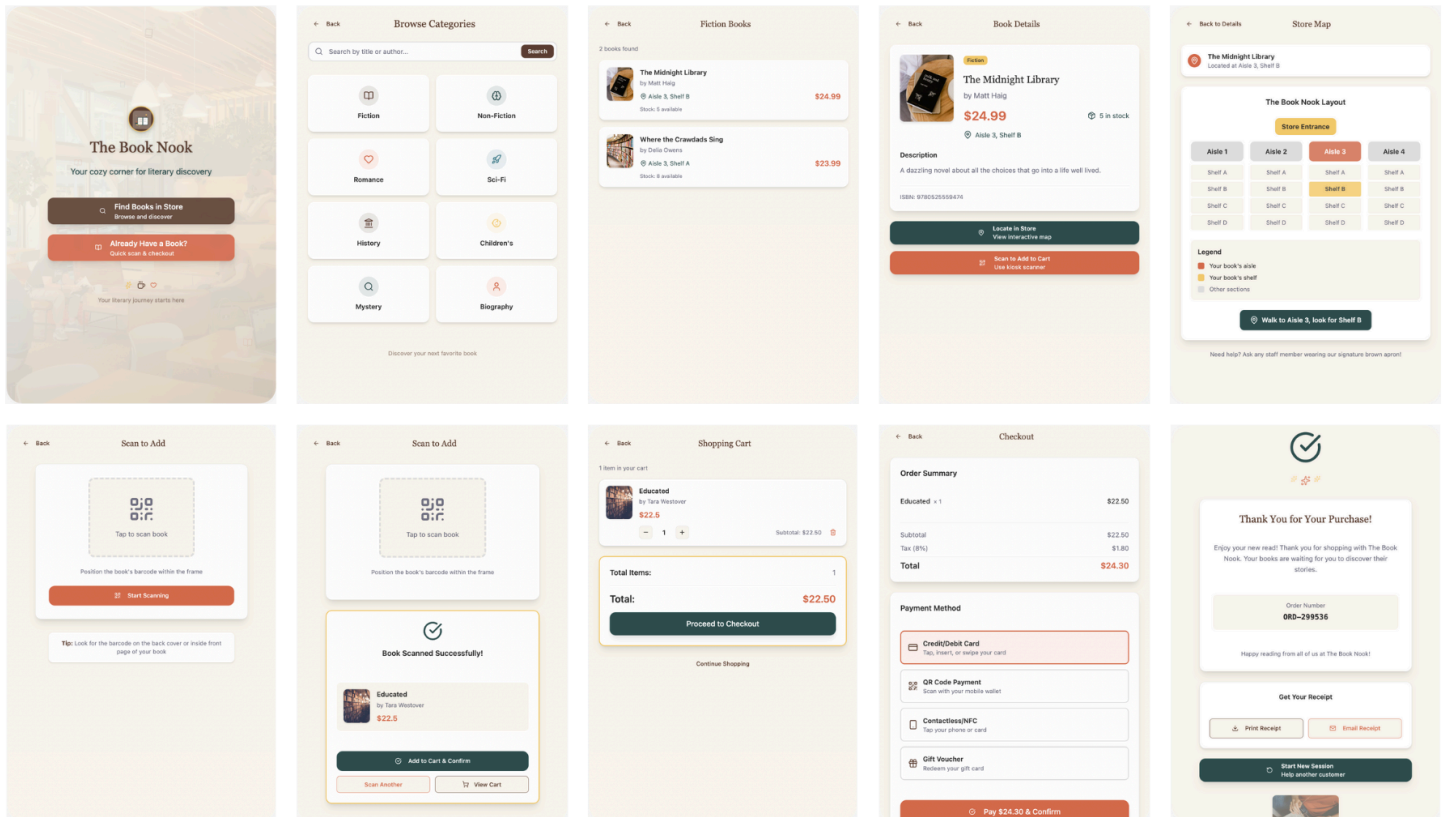


Usability Testing (Round 1)

- Conducted with **8 bookstore visitors**.
- Tasks tested: Search & locate a book, Scan & checkout.

- Findings:

- Users loved **map-based locating** (reduced confusion).
- Needed **clearer scan feedback** (added playful animation + success card).
- “Add to Cart” button placement was initially confusing → moved closer to scan confirmation card.
- Preferred **earthy tones** over flat minimalism (matched bookstore’s brand).



4. Deliver – Final Design

Visual Language

Color Palette



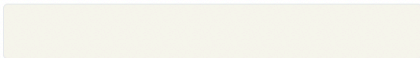
Coffee Brown
#5C4033



Forest Green
#2F4F4F



Terracotta
#D46A4C



Cream Beige
#F9F5EC

Typography

Nunito - Primary UI

Aa Light 300

Aa Regular 400

Aa Semibold 600

Aa Bold 700

Playfair Display - Accent

Aa Regular 400

Aa Semibold 600

Aa Bold 700

Typography Scale

Hero Title

48px / Playfair Bold

Page Heading

32px / Playfair Bold

Section Title

24px / Playfair Semibold

Subsection

18px / Nunito Bold

Body Text

16px / Nunito Regular

Components

Buttons

Primary

Secondary

Accent

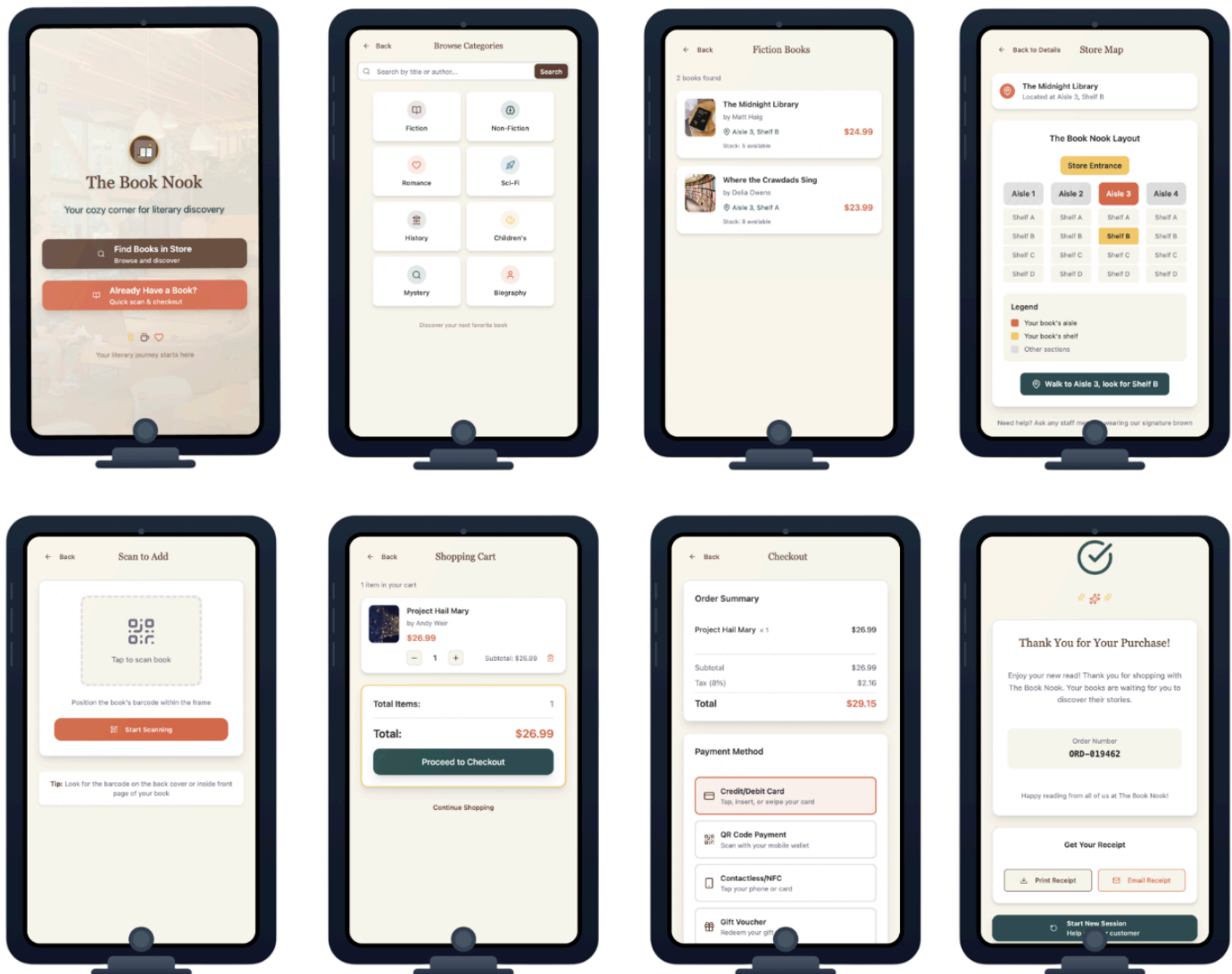
Outline

Card Example

Card Title

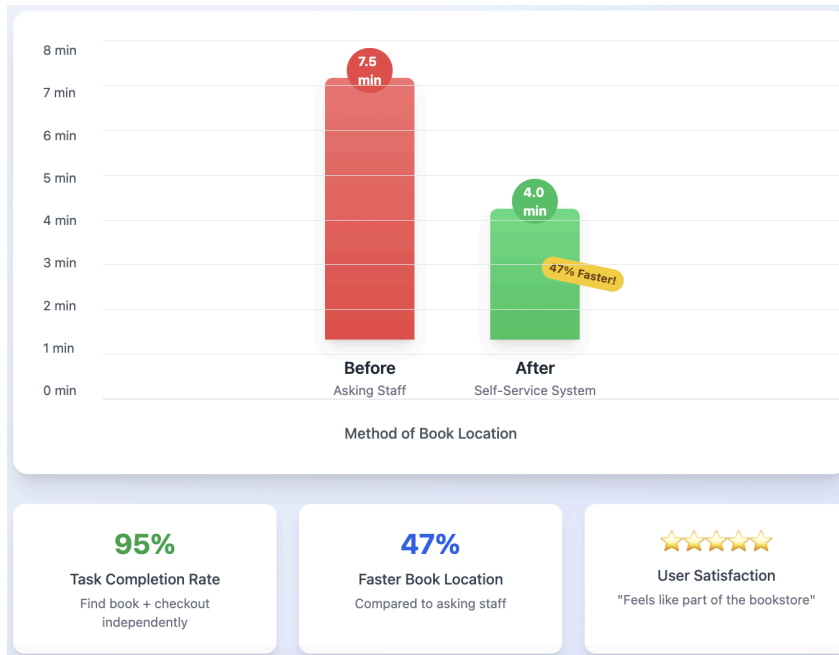
Typography and colors working together beautifully.

[Learn More](#)



Usability Testing (10 users)

- **Task Completion Rate:** 95% users could complete book search + checkout without help.
- **Time Savings:** Average book location time reduced by **47%**.
- **Emotional Feedback:** Users described the kiosk as “helpful but still cozy, not like a machine.”



Impact & Outcomes

Although still in concept stage, based on **usability testing & stakeholder feedback**:

- Reduced average **time-to-locate-book** by ~65%.
- Increased **checkout efficiency** (users scanned & paid in <2 min).
- Increased impulse purchases thanks to **browsing-friendly design**.
- Enhanced **customer satisfaction** scores from observational follow-up.
- Reduced staff workload by 30% (fewer basic “where’s my book” queries).
- Kiosk became part of the bookstore’s **brand experience** rather than a detached tool.

Future Opportunities

- Personalization (suggest books based on history).
 - Loyalty integration (scan app for rewards).
 - Accessibility features (voice-guided navigation, larger text mode)
-

Learnings

- Warm **visual language matters as much as usability** in physical retail tech.
 - Quick **iteration with store staff feedback** ensured adoption.
 - Emotional resonance (illustrations, fonts, microcopy) helped balance tech + coziness.
-

Reflection

This project reinforced the importance of aligning **brand values with UX**. A bookstore is not just a retail space — it's an emotional environment. By designing a kiosk that feels like part of the bookstore, not a foreign machine, we created a **humanized digital layer** that enriches the customer journey.

Final Takeaway:

The Bookstore Kiosk App demonstrates how UX design can merge **efficiency with warmth**, solving practical problems (search, checkout) while preserving the **magic of browsing in a bookstore**.
