

Preliminary Requirements Document

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Functional Requirements (Use Cases)

Use-Case Name: Customer Starts a New Kiosk Session

Main Success Scenario

1. Customer selects start
2. System presents customer with selection choices
 - Customer Browses Audiobook Collection
 - Customer Picks up Reserved Audiobook
 - Customer Returns Audiobook
3. Customer selects exit session
4. System presents main start screen

Step 2 repeats until customer selects Exit or session length equals five minutes

Use-Case Name: Customer Browses Audiobook Collection

Main Success Scenario

1. Customer selects browse
2. System presents customer with screen showing available audiobooks
3. Customer selects desired audiobook
4. System presents customer with detailed description and reviews of audiobook
5. Customer selects add desired audiobook to cart
6. System adds desired audiobook to running list of customers audiobooks
7. Customer selects checkout
 - Customer Checks Out

Steps 2-6 continue until customer selects check out or session length equals five minutes

Alternate Scenario

5. Customer selects more details option (from step 4)
6. System presents customer with detailed view of the desired audiobook
7. Customer selects return to list of audiobooks
8. System presents customer with view of audiobooks starting at the recently viewed audiobook
9. Customer selects add desired audiobook to cart

Use-Case Name: Customer Checks Out

Main Success Scenario

1. Customer selects check out
2. System prompts customer to scan library card
3. Customer scans library card
4. System prompts customer to enter address zip code for verification
5. Customer enters zip code
6. System validates library card and zip code information
7. System checks for reservations under the customers library card number
8. System adds reserved audiobooks to cart
9. System presents customer with view of cart containing all desired audiobooks
10. Customer selects confirm check out
11. System dispenses the desired audiobooks and removes one copy of each title from the system inventory
12. System prints receipt showing all audiobooks checked out and their due dates
13. System returns to start screen

Use-Case Name: Customer Picks up Reserved Audiobook

Main Success Story

1. Customer selects pick up reserved audiobook
2. System prompts customer to scan library card
3. Customer scans library card
4. System prompts customer to enter address zip code for verification

5. Customer enters zip code
6. System validates library card and zip code information
7. System displays currently reserved audiobooks for the library card number
8. System displays options to customer
 - Customer Checks Out (start at step 8)
 - Customer Browses Audiobook Collection

Use-Case Name: Customer Returns Audiobook

Main Success Scenario

1. Customer selects return audiobook
2. System activates audiobook return slot
3. System scan audiobook barcode
4. System adds one copy of audiobook title to system's inventory
5. System removes audiobook title from customers library card account
6. System displays audiobook return successful
7. System prompts user to start new kiosk session
 - Start New Kiosk Session

Use-Case Name: Customer Reserves Audiobook

Main Success Scenario

1. Customer logs into library account website
2. Web system displays all available audiobook collection
3. Customer adds desired audiobooks to cart
4. Customer selects check out
5. System displays all titles in cart
6. System prompts user to select local kiosk location
7. Customer selects desired pickup kiosk
8. System queues audiobook transfer to desired kiosk
 - Courier transfers audiobooks

Use-Case Name: Employee Restocks Audiobooks

Main Success Scenario

1. Employee physically adds audiobooks to kiosk
2. Employee logs into library account website
3. Employee enters tracking number for each audiobook that was added

Use-Case Name: Customer Registers

Main Success Scenario

1. Customer accesses the library account creation website
2. Customer enters information required for account creation
3. System creates new account

Alternate Scenario

- 1a. Customer visits library in person
- 2a. Customer accesses kiosk account creation interface
- 3a. Customer enters information required for account creation into kiosk (return to main scenario step 3)

Use-Case Name: Manager Generates Report

Main Success Scenario

1. Manager logs into library website
2. Manager accesses report generation page
3. Manager requests that the system generate an administrative report
4. System generates and presents administrative report via web interface

Alternate Scenario (local branch report)

- 4a. Manager requests that the system generate a local branch report
- 5a. System generates and presents local branch report via web interface

Non-Functional Requirements

- The system must be able to be managed from the library's administrative branch
- The system must be able to run continuously 24/7/360, except when re-stocking or maintenance is being performed.
- The system must generate on demand administrative reports containing the following: Inventory for every kiosk in the system, and detailed statistics for check out and check in time and date of each book in the entire system.
- The system must generate on demand local reports containing the following: Inventory for a specific kiosk, and detailed statistics for check out and check in time and date of each book in that kiosk.