

Use case #1: Loan an Item Id: LI-1

Description: A resident will talk to the DA and request an item that the DA will then give to the resident for a certain amount of time.

Pre-Conditions: - Resident must not have an open loan record.

- Resident wants an item they can loan.

Actors:

- Resident

- Desk Assistant (DA)

Goals:

- Rent out the equipment to Resident

- Update records in database

Basic Flow:

1. Resident speaks with DA.

2. DA checks Resident information.

3. DA swipes ID card to begin record of loan.

4. DA gets item for Resident.

Alternate Flow:

↳ 1. same as Basic Flow step 1.

2. DA manually enters Resident Data (updates Record)

3. DA gets item for Resident.

Exceptions:

After step 1 of Basic Flow, the DA will check if that item is available, and if not the process will end at that step and the Resident will be told there is no loanable item.

Post-Conditions:

- Resident has item

- Record of loan is opened

- Database is updated with new log/record

Use Case #2: Return of Item

Id: RI-1

Description: The resident will return the loaned item to the DA.

Pre-conditions:

- Resident must have an open loan record.
- Resident must have item with them.

Actors:

- DA
- Resident

Goals:

- Return equipment securely
- Update resident record

Basic Flow:

1. The Resident speaks with DA and tells them they are returning the item.
2. The DA accepts the item back.
3. DA checks resident record and complete transaction.
4. DA returns item to storage; Resident can leave.

Alternative Flow:

↳ 1. Same as Basic Flow 1

2. DA must manually enter Resident data

3. DA puts item in storage; Resident leaves.

Post-Conditions:

- Item is properly returned
- Resident Record updated and fulfilled
- Database updated with complete log/record.

Use Case #3: Print Logs

Id: MF-1

Description: Manager can print out logs for end of year auditing and traceability.

Pre-conditions: - Log must not be empty.
- System cannot be down for maintenance.

<u>Actors</u> : - Manager (HS)	<u>Goals</u> : - Have complete logs for audits
-----------------------------------	--

Basic Flow:

1. HS starts software.
2. HS interacts with filters to specify which logs to print out.
3. HS selects to print.
4. HS exits print screen; system is ready for loans.

Alternative Flow:

1. wait until system is up.
2. Follow basic flow
↳ If wait will be too long:
 1. Check logs thru backend
 2. Print Database tables necessary
 3. Close backend access

Post-Conditions:

- Logs printed out for audit
- System backend is closed.

Use Case #4: Send Reminder Message Id: MR-1

Description: DA will click button to send reminder to Resident to return loaned items.

Pre-Conditions: - Resident has an open record
- Time limit for loan is near to or has ended.

Actors:

- DA

Goals: - Remind resident's of terms of use

- Get loaned item as directed

Basic Flow:

1. Desk Assistant opens current unfinished logs.
2. DA clicks send reminder button.
3. System will send email reminder to student.
4. System creates visual confirmation that email was sent.
5. DA repeats step 2 for each unfinished log.

Exceptions:

- If a resident has already been sent an email, the system will ignore that record and continue.

Post-Conditions:

- Resident received email reminder.

Use Case Diagram:

Equipment Loaning System

Customer Actors

Resident

Admin Actors

.DA

Manager

Loan/Return
an item

Send
Reminder

Print Logs

Check Logs