CSE347: Information System Analysis And Design
Section: 06

Equipment And Accessories Rental System

Group: 5

Submitted By :

Muhammad Abdul Kayum
ID: 2023-2-60-082

Reduan Islam
ID: 2023-1-60-118

Md Ishaq
ID: 2023-1-60-031

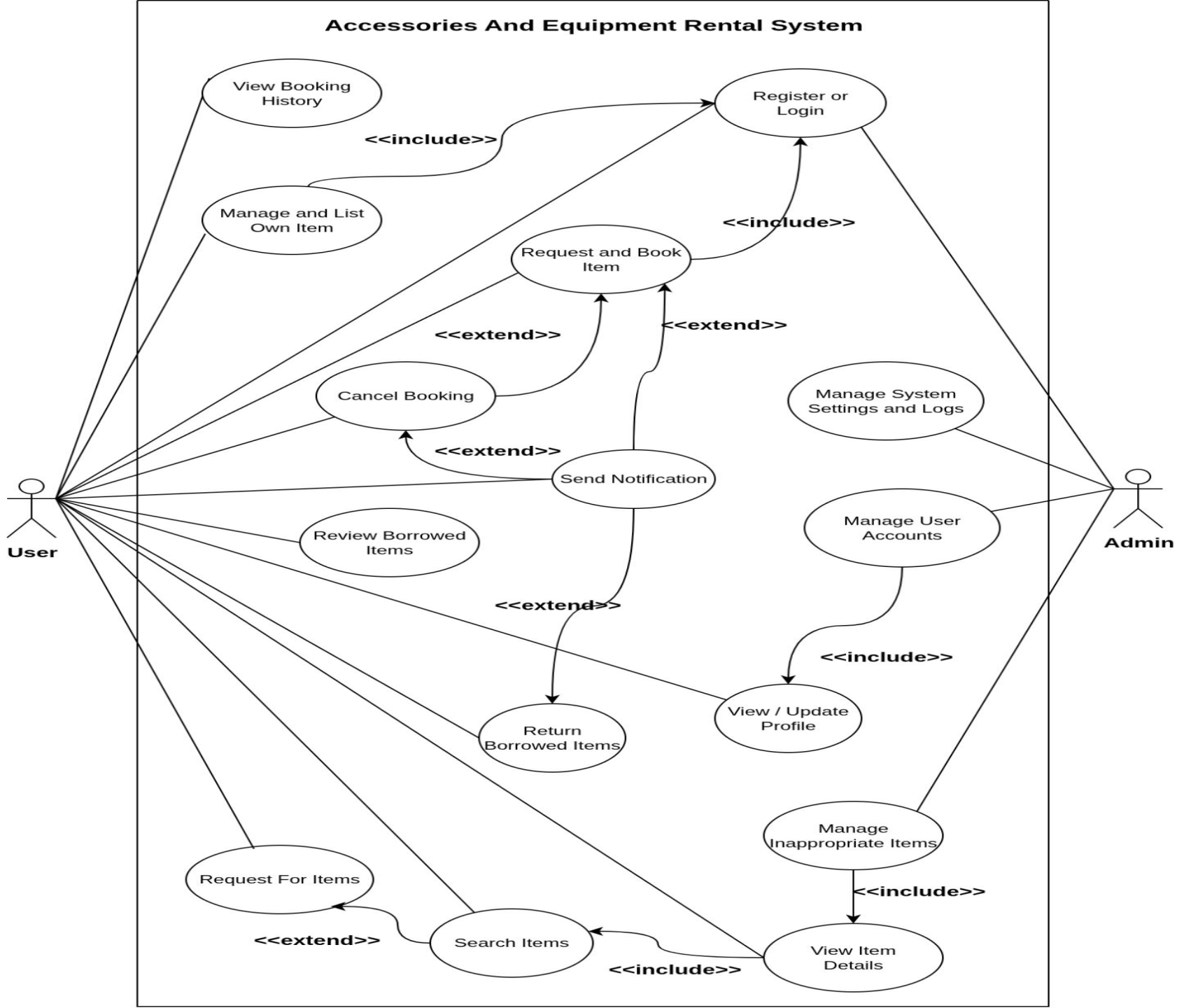
Md.Sadman Sakib Siam
ID: 2023-1-60-119

Introduction

- ➔ Community-based rental & sharing platform
- ➔ Connects item owners with borrowers
- ➔ Features: listings, booking, notifications, reviews
- ➔ Promotes cost saving & sustainability

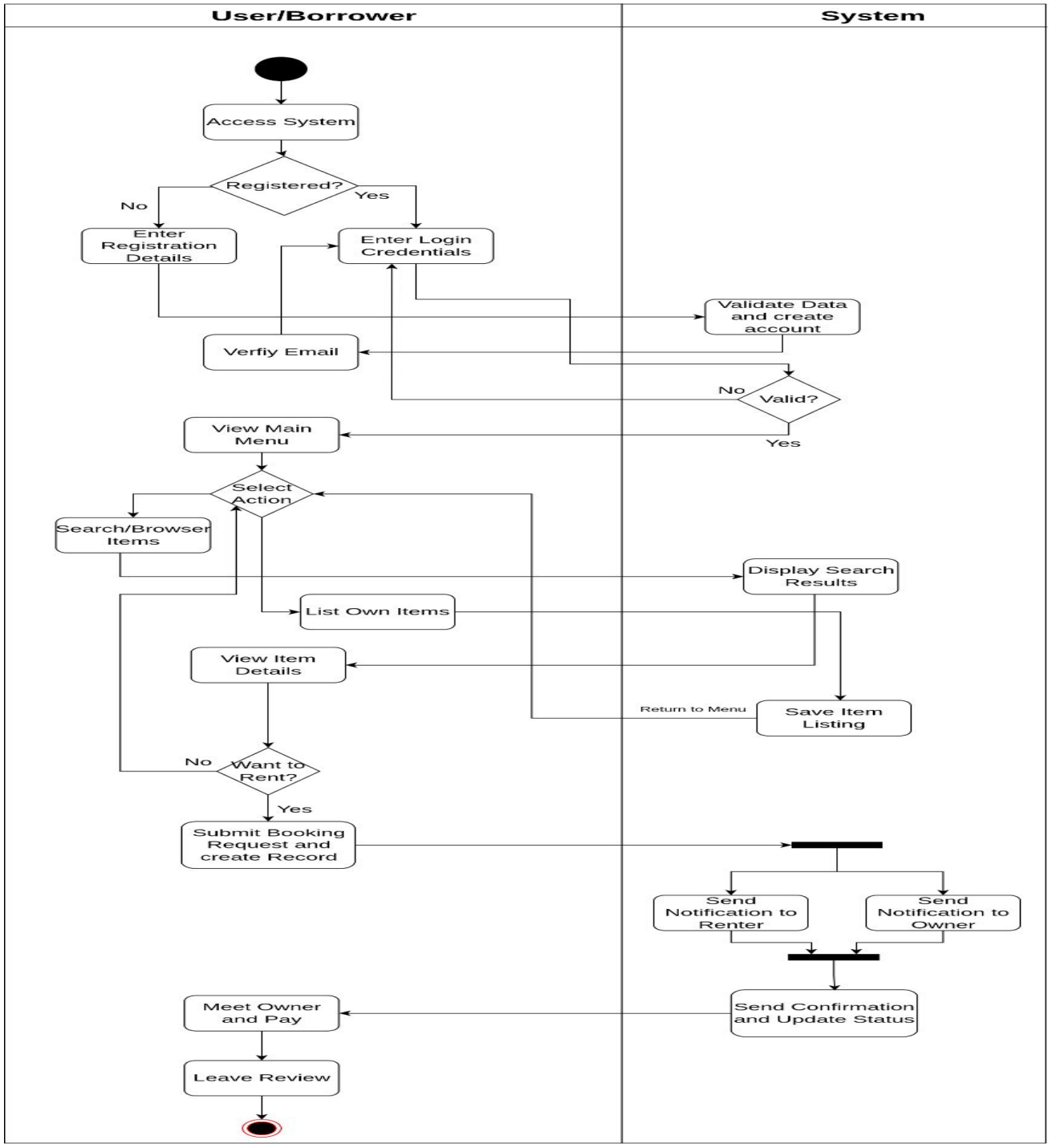
Objectives

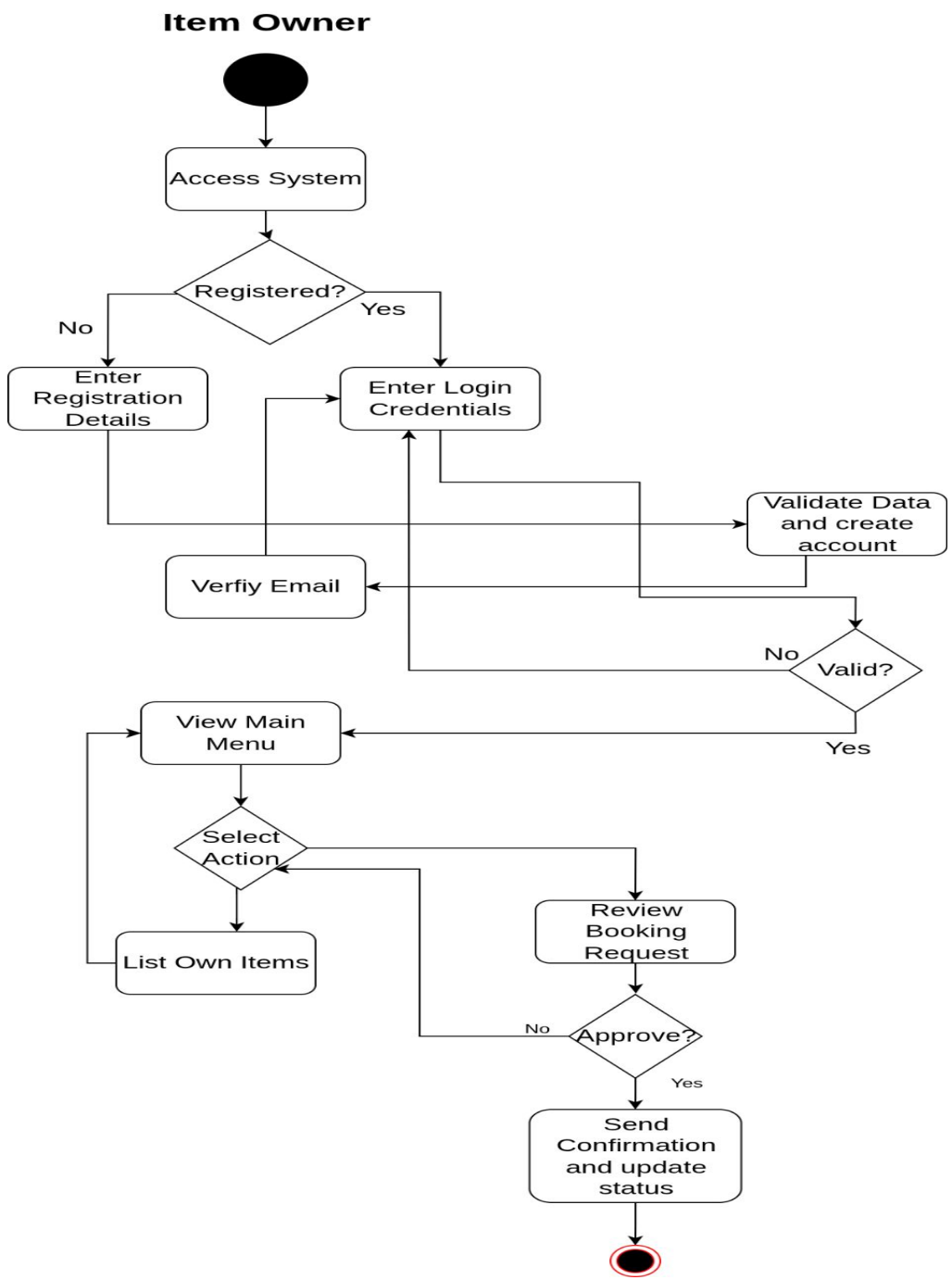
- ➔ Provide easy access to shared resources
- ➔ Reduce unnecessary purchases
- ➔ Create opportunities for extra income

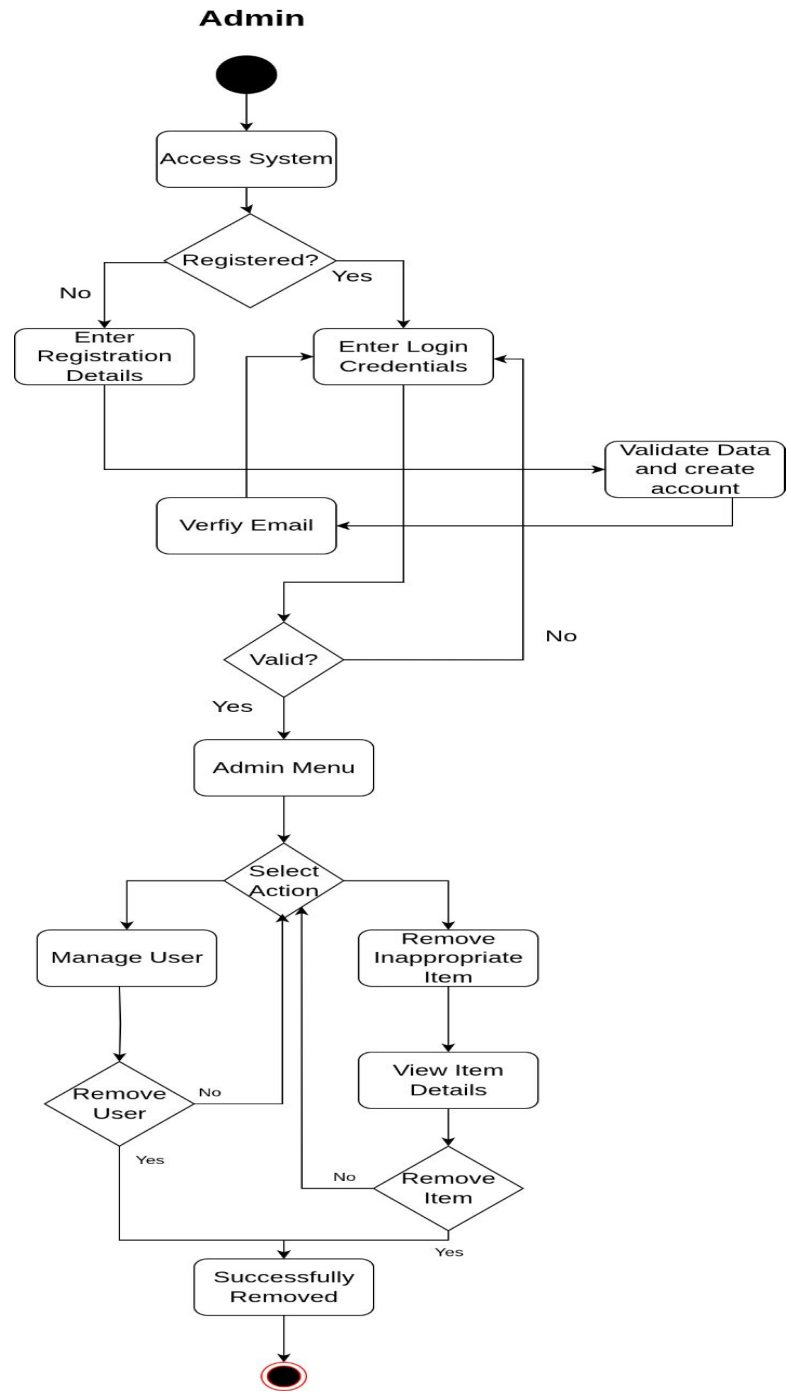

Accessories And Equipment Rental System
View Booking History
Register or Login
<<include>>
Manage and List Own Item
<<include>>
Request and Book Item
<<extend>>
<<extend>>
Cancel Booking
Manage System Settings and Logs
<<extend>>
Send Notification
User
Admin
Review Borrowed Items
Manage User Accounts
<<extend>>
<<include>>
View / Update Profile
Return Borrowed Items
Manage Inappropriate Items
Request For Items
<<include>>
<<extend>>
Search Items
View Item Details
<<include>>

Activity Diagram for Borrower

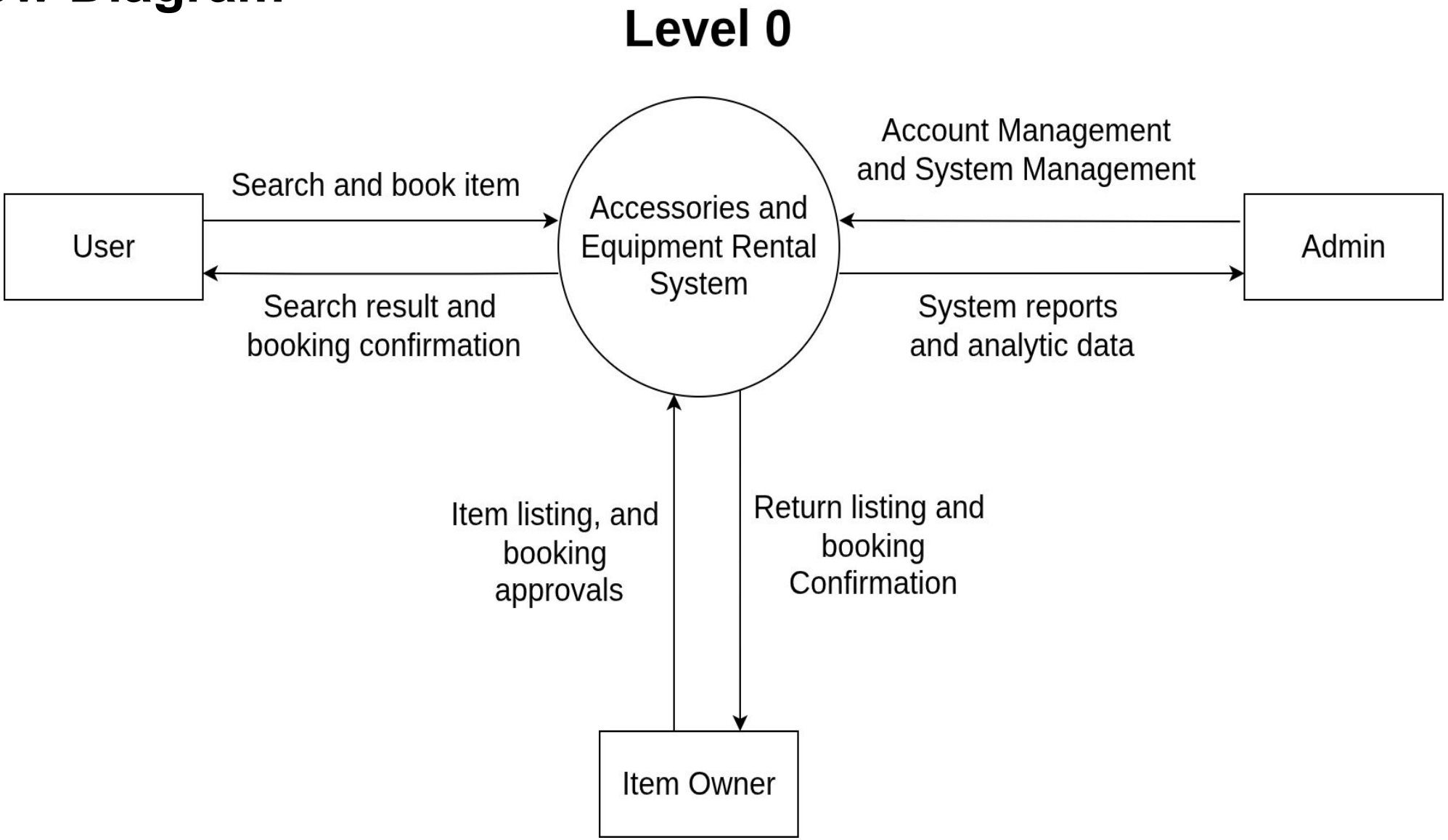
- ➔ contains the borrowing process by user
- ➔ Includes the system activity



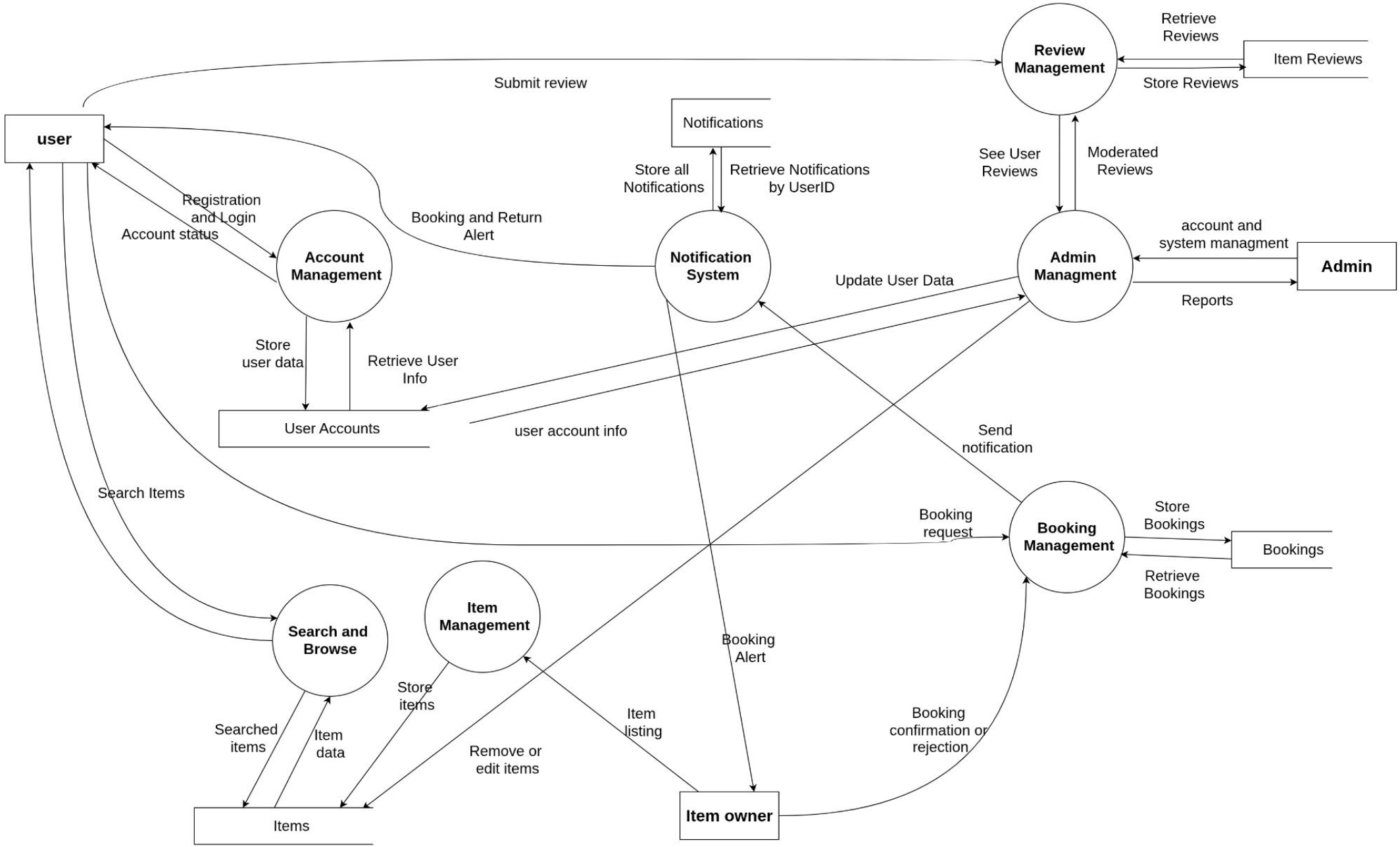

Item Owner
Access System
Registered?
No
Yes
Enter Registration Details
Enter Login Credentials
Validate Data and create account
Verfiy Email
No
Valid?
Yes
View Main Menu
Select Action
List Own Items
Review Booking Request
No
Approve?
Yes
Send Confirmation and update status


Admin
Access System
Registered?
No
Yes
Enter Registration Details
Enter Login Credentials
Validate Data and create account
Verfiy Email
Valid?
No
Yes
Admin Menu
Select Action
Manage User
Remove Inappropriate Item
Remove User
No
Yes
View Item Details
No
Remove Item
Yes
Successfully Removed

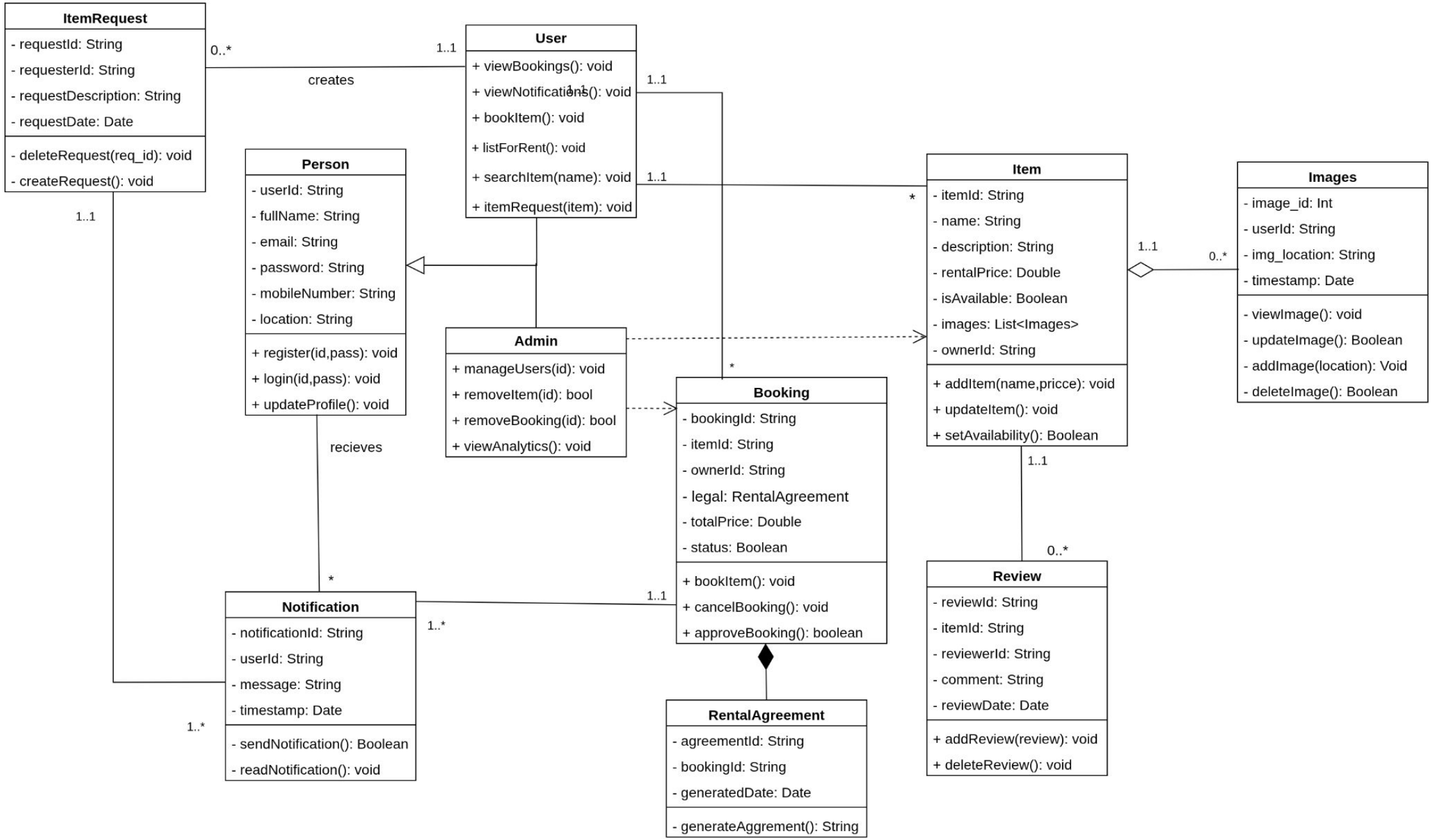
Data Flow Diagram



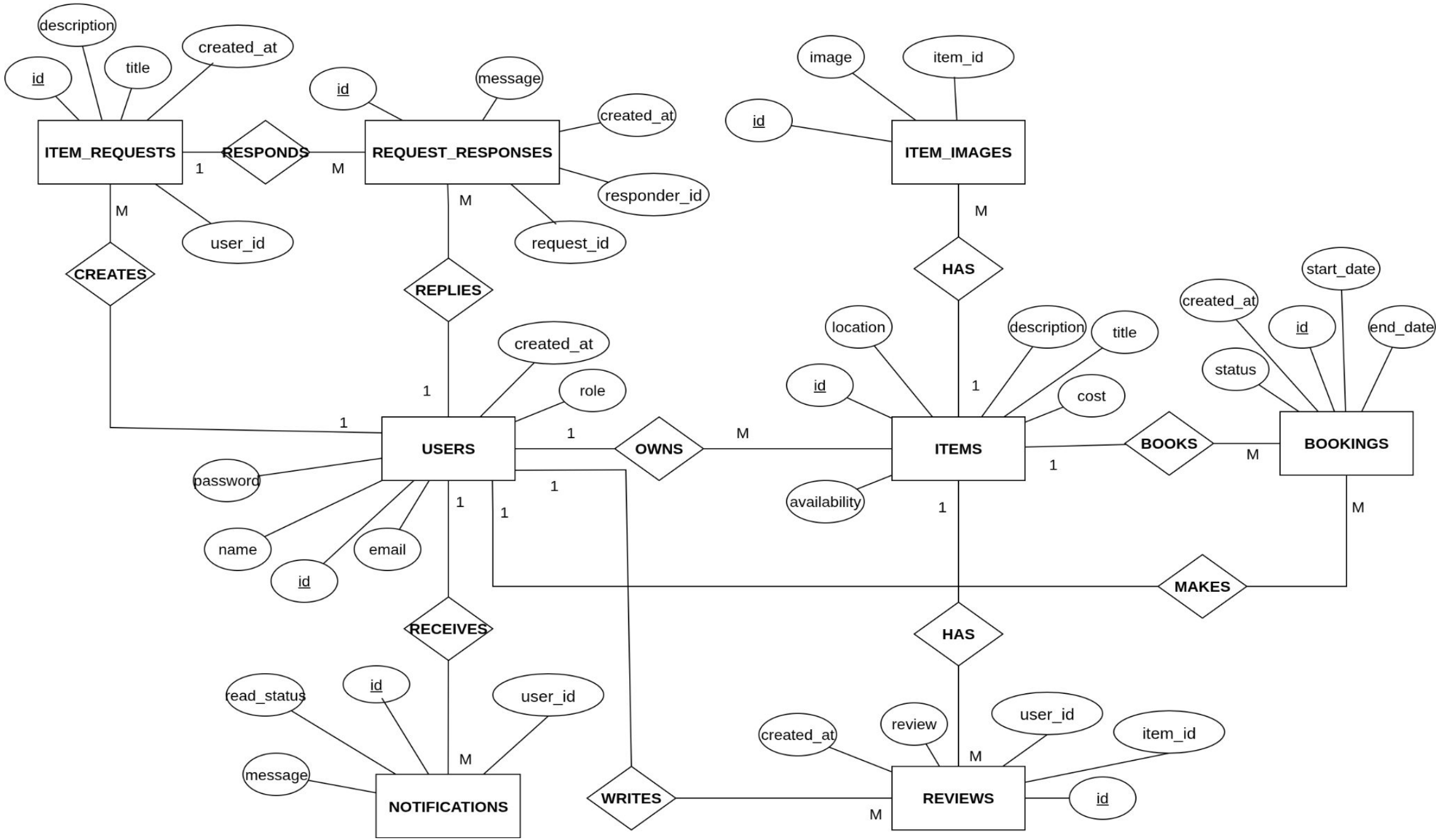
Level 1


user
Review Management
Retrieve Reviews
Item Reviews
Store Reviews
Submit review
Notifications
Store all Notifications
Retrieve Notifications by UserID
See User Reviews
Moderated Reviews
Registration and Login
Account status
Account Management
Booking and Return Alert
Notification System
Admin Managment
account and system managment
Admin
Reports
Update User Data
Store user data
Retrieve User Info
User Accounts
user account info
Send notification
Search Items
Booking request
Booking Management
Store Bookings
Bookings
Retrieve Bookings
Search and Browse
Item Management
Booking Alert
Store items
Searched items
Item data
Item listing
Booking confirmation or rejection
Remove or edit items
Items
Item owner

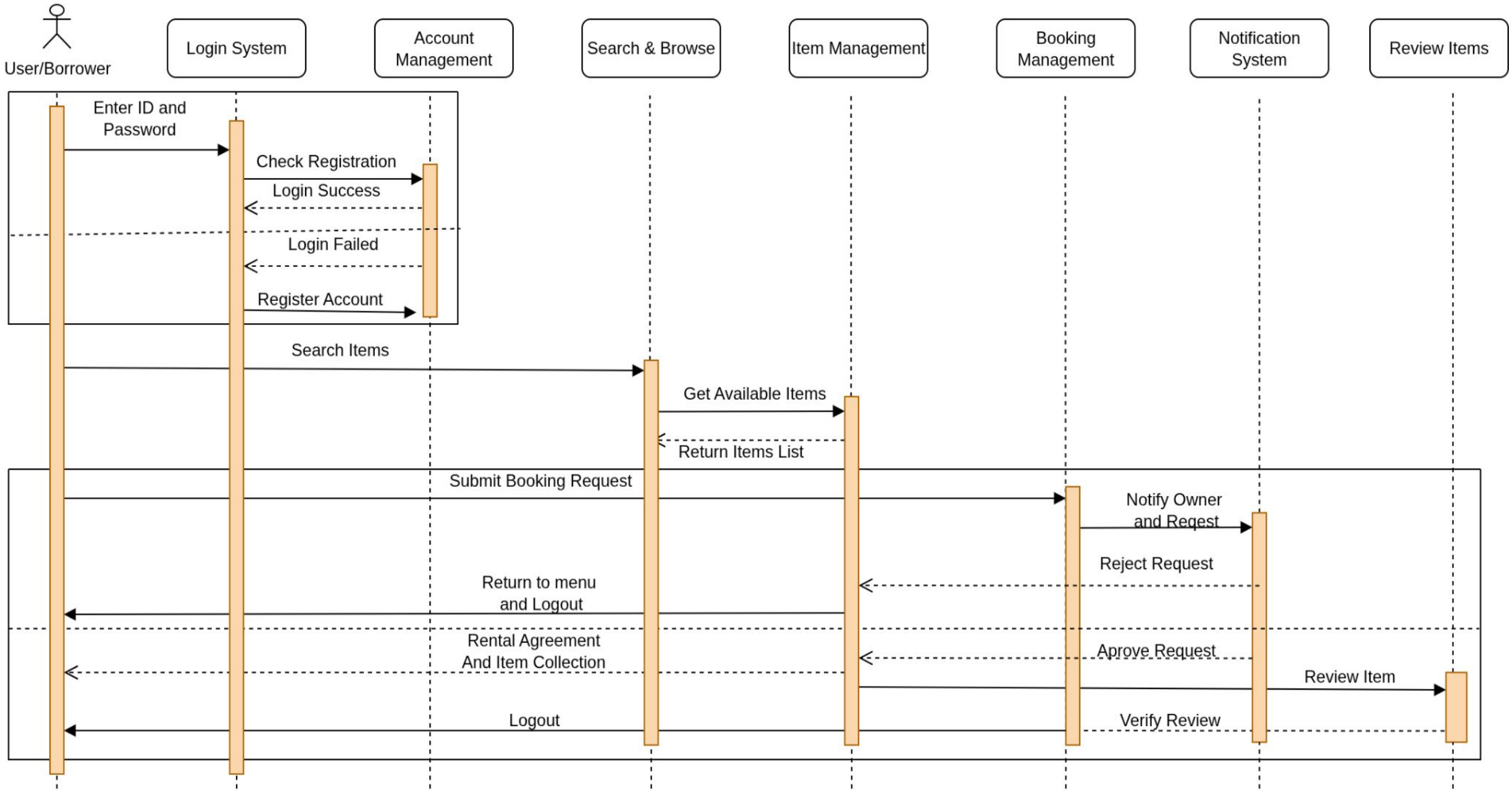
Accessories and Equipment Rental System - Class Diagram



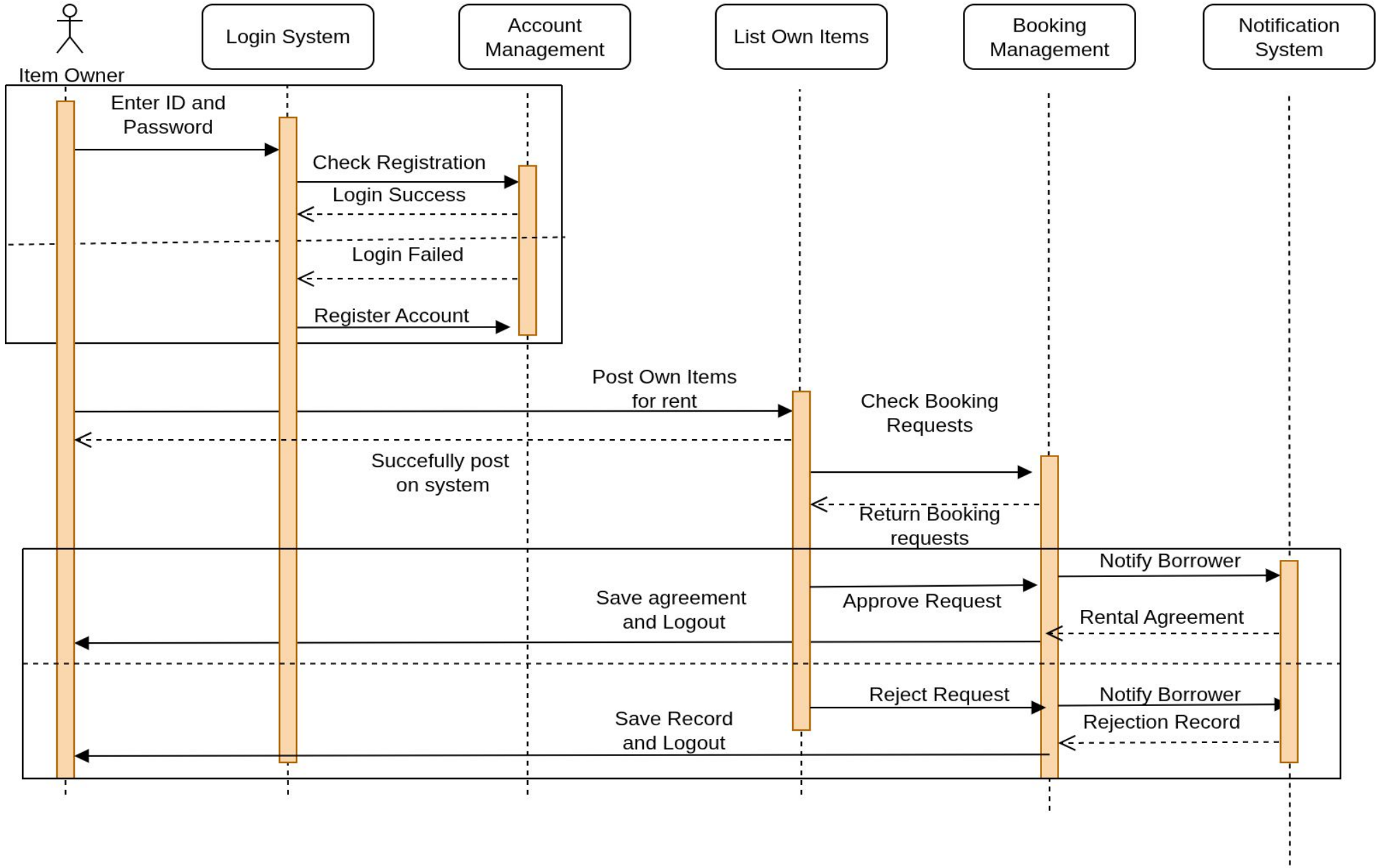
Equipment and Accessories Rental System - ER Diagram



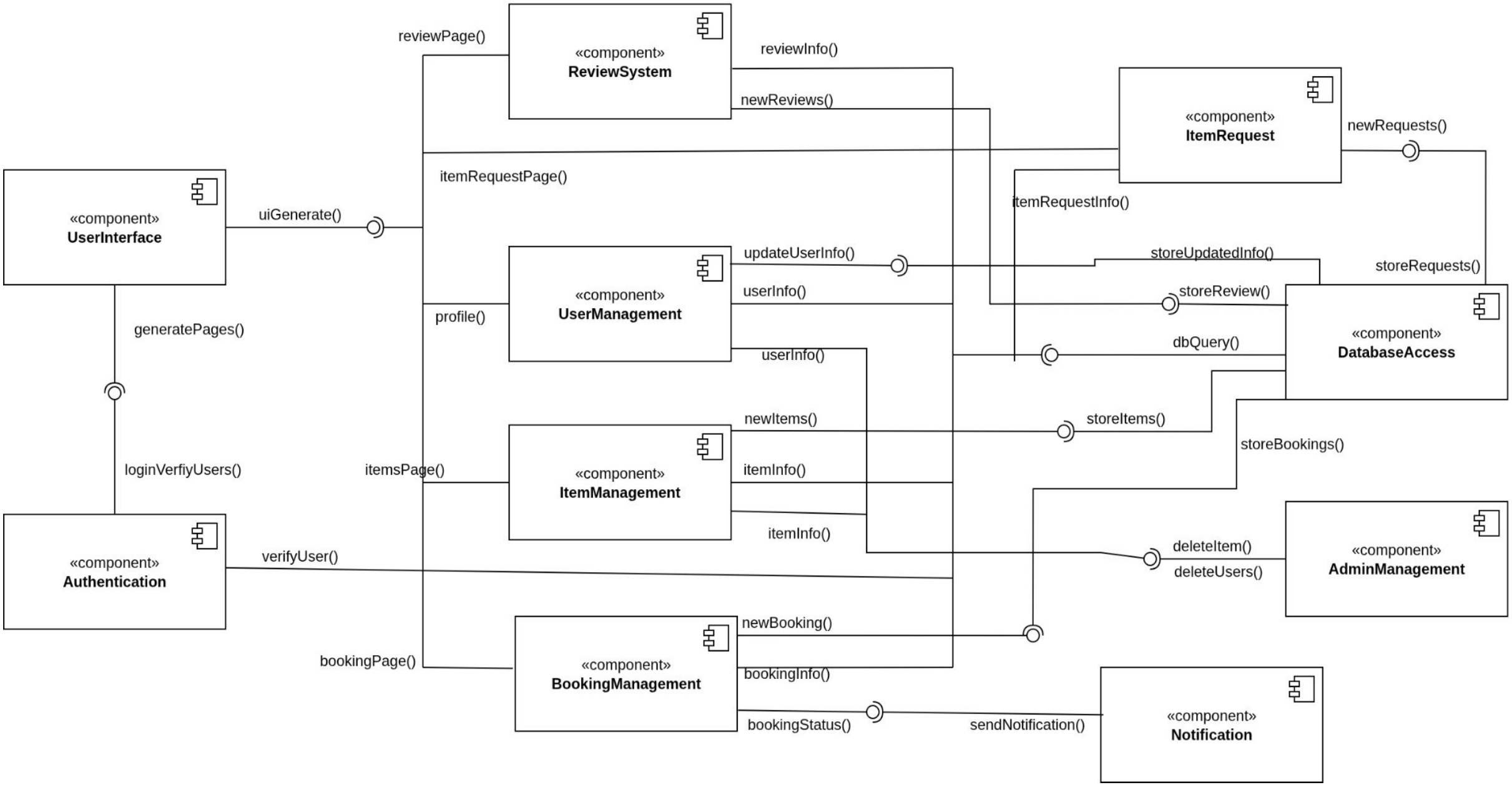
Sequence Diagram Of Borrower



Sequence Diagram Of Item Owner



Accessories and Equipment Rental System - Component Diagram



conclusion

- System makes borrowing & renting simple and organized
- Encourages resource-sharing and reduces waste
- Useful for students, communities, and organizations

Thank You