Requirements

1. Users should be able to search movies, cinemas, and book movie
2. User should be able to search movie by genre, language ,location ,actors
3. User should be able to select different types of payment methods for booking
4. The system should provide the option to refund to user payment or account
5. The user should be able to view, edit and update its personal information
6. User should be able to view seats, change and book seats
7. The system should allow on both online and offline check-in for booking
8. The user should be able to view all bookings
9. System should notify users about promotions, booking/cancellation

User of System

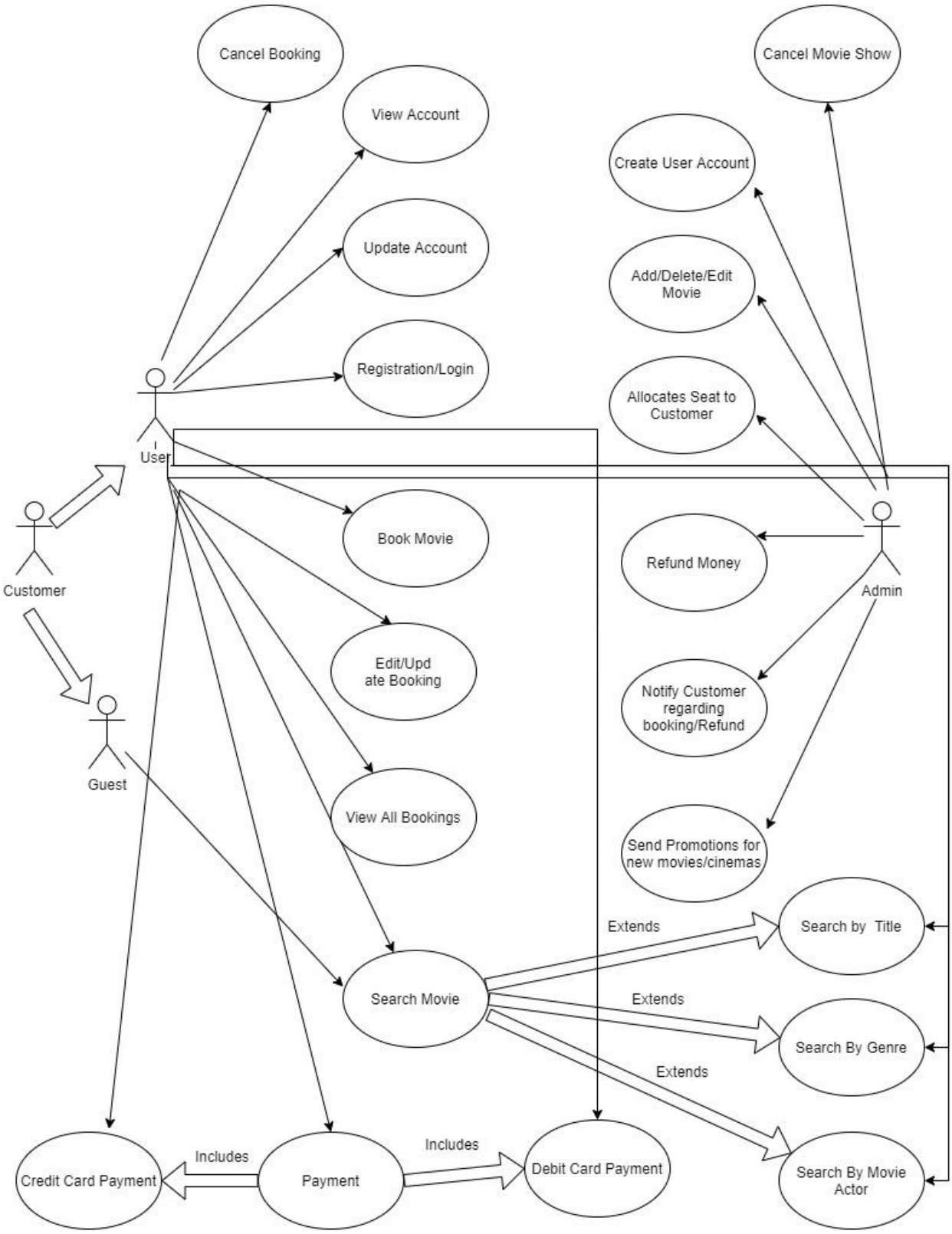
Customer

Guest

Administrator

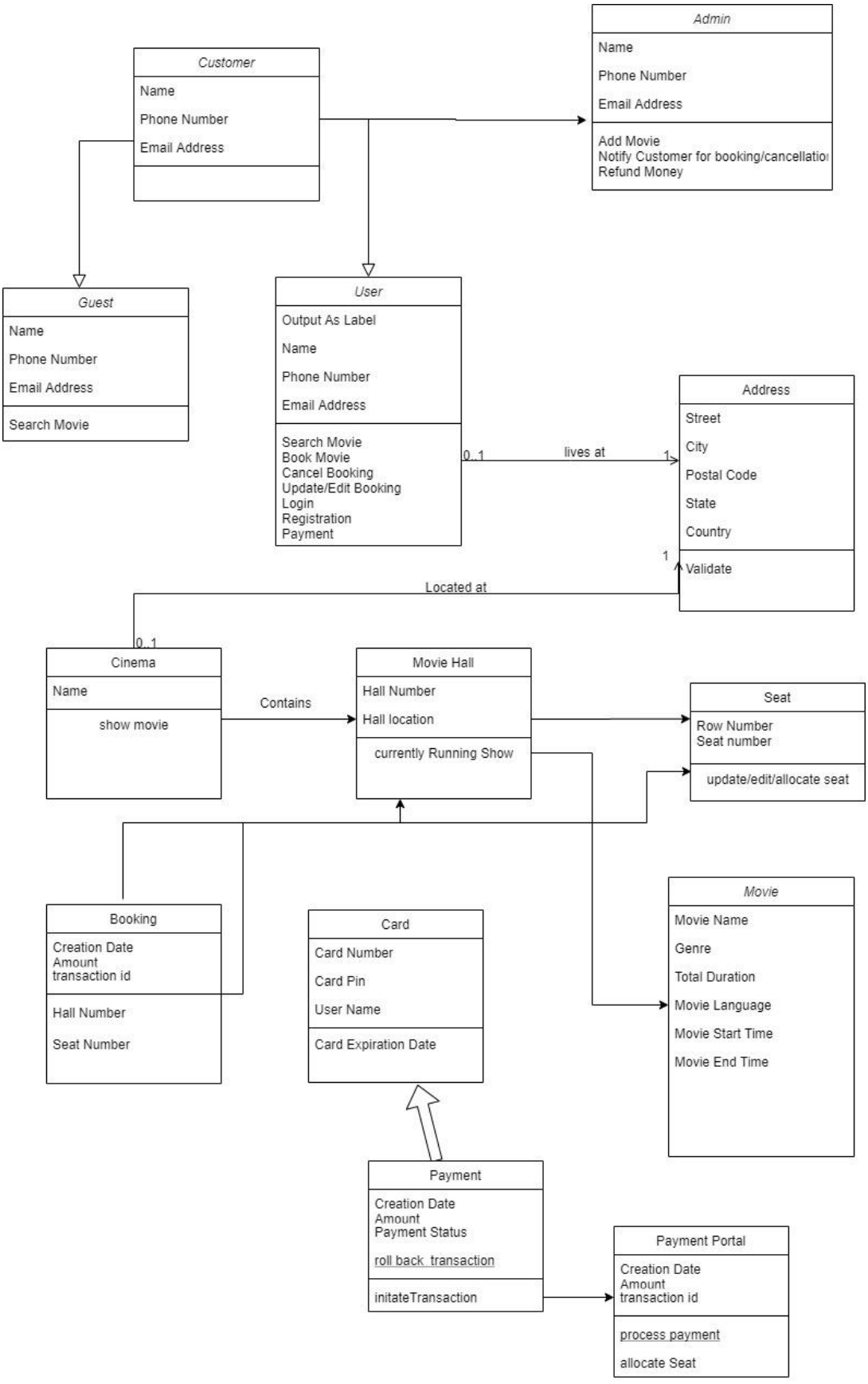
Top Use Cases

- Search Movie by Genres/Location/Actor/Movie Halls
- Assign/Edit/Change/Delete Seats
- Cancel Booking
- Payment
- Refund


Cancel Booking
View Account
Update Account
Registration/Login
Cancel Movie Show
Create User Account
Add/Delete/Edit Movie
Allocates Seat to Customer
User
Customer
Guest
Admin
Book Movie
Edit/Update Booking
View All Bookings
Search Movie
Refund Money
Notify Customer regarding booking/Refund
Send Promotions for new movies/cinemas
Extends
Search by Title
Extends
Search By Genre
Extends
Search By Movie Actor
Includes
Credit Card Payment
Payment
Includes
Debit Card Payment

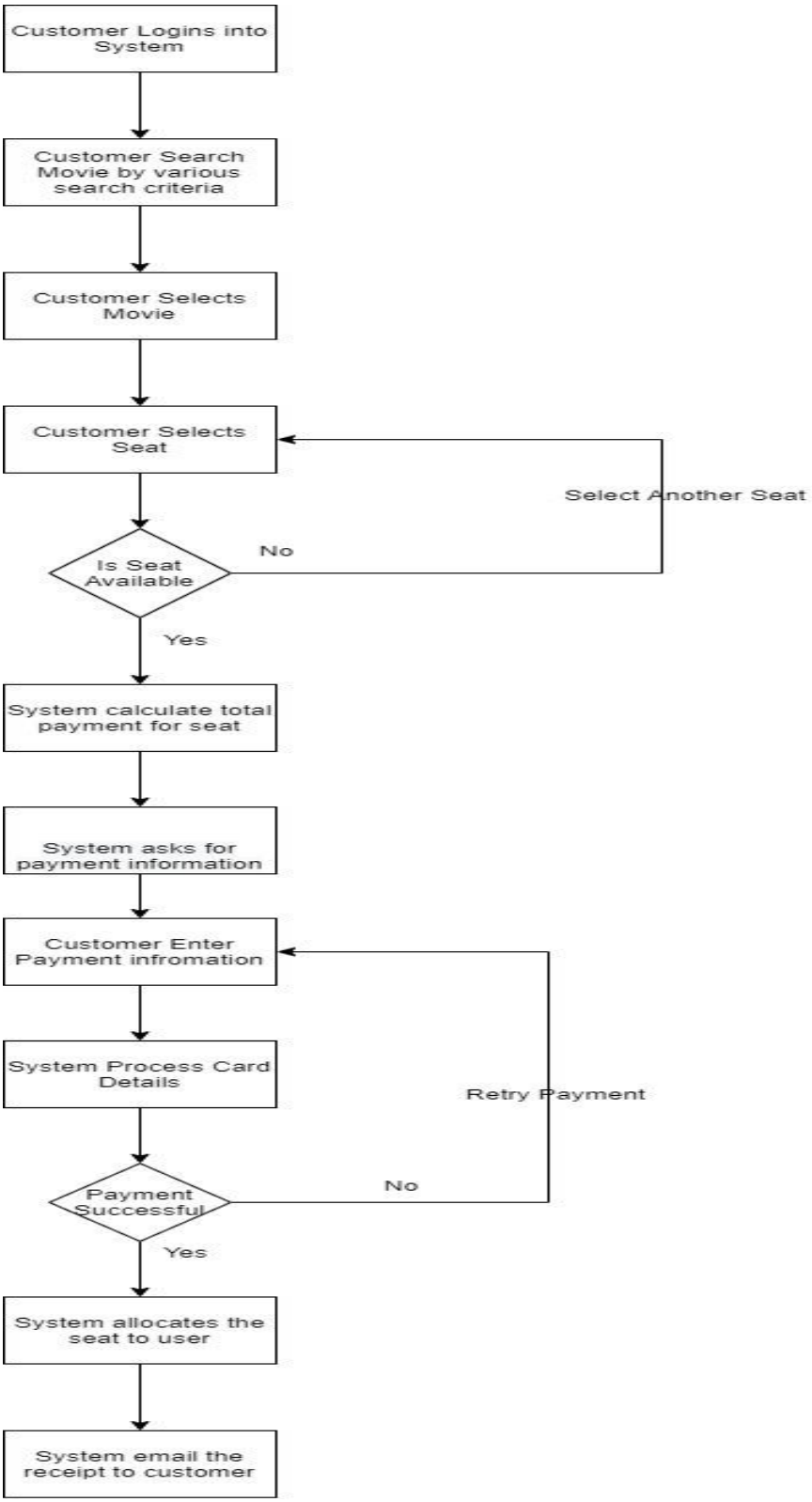
Class Diagram

- Account
- Movie
- Movie Show
- Movie Hall
- Payment
- Movie Seat
- Booking


Admin
Name
Phone Number
Email Address
Add Movie
Notify Customer for booking/cancellatio
Refund Money
Customer
Name
Phone Number
Email Address
Guest
Name
Phone Number
Email Address
Search Movie
User
Output As Label
Name
Phone Number
Email Address
Search Movie
Book Movie
Cancel Booking
Update/Edit Booking
Login
Registration
Payment
0..1
lives at
1
Address
Street
City
Postal Code
State
Country
Validate
1
Located at
0..1
Cinema
Name
show movie
Contains
Movie Hall
Hall Number
Hall location
currently Running Show
Seat
Row Number
Seat number
update/edit/allocate seat
Booking
Creation Date
Amount
transaction id
Hall Number
Seat Number
Card
Card Number
Card Pin
User Name
Card Expiration Date
Movie
Movie Name
Genre
Total Duration
Movie Language
Movie Start Time
Movie End Time
Payment
Creation Date
Amount
Payment Status
roll back transaction
initateTransaction
Payment Portal
Creation Date
Amount
transaction id
process payment
allocate Seat

Activity Diagram

Movie Booking


Customer Logins into System
Customer Search Movie by various search criteria
Customer Selects Movie
Customer Selects Seat
Select Another Seat
Is Seat Available
No
Yes
System calculate total payment for seat
System asks for payment information
Customer Enter Payment infromation
System Process Card Details
Retry Payment
Payment Successful
No
Yes
System allocates the seat to user
System email the receipt to customer