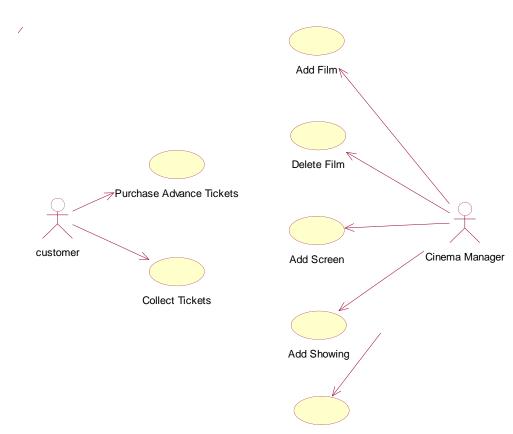
APPENDIX G

USE CASE SPECIFICATIONS for CINEMA BOOKING SYSTEM



Use Case Diagram

Cancel Showing

Use case descriptions, with Actions and Data

Use case: "Purchase Advance Tickets"

Actor requests to view Showings for a DateTime System retrieves a list of Showings, including DateTime, Film Title for each Showing

Actor selects a Film Title System retrieves Film Details, including Film Title, Age Rating, Duration, Short Trailer Actor specifies Ticket Type required (student, child, adult) Actor supplies Quantity of Tickets required If insufficient seats available, System cancels Booking Otherwise, System calculates Cost

If Actor not satisfied with Cost, System cancels Booking Otherwise, Actor supplies Payment Card Details, including Card Type (Credit/Debit), Card Number, Expiry Date System transacts Payment

Actions:

RetrieveShowingsList uses: DateTime, ShowingNumber

RetrieveFilmDetails

uses: Title, AgeRating, Duration, Trailer

CheckSeatAvailability

uses: ShowingNumber, Seats

CalculateCost

uses: BookingNumber, Quantity, TicketType, Cost

CancelBooking

uses: BookingNumber

TransactPayment

uses: CardType, CardNumber, ExpiryDate

Data:

DateTime ShowingNumber Title AgeRating Duration Trailer Seats TicketType BookingNumber Quantity Cost CardNumber CardType ExpiryDate

Use case: "Collect Tickets"

Actor provides Payment Card Details System looks up Booking Details System prints Tickets for Booking

Actions:

LookUpPayment Uses: CardNumber, BookingNumber

PrintTickets

Uses: CardNumber, BookingNumber, TicketType

Data:

CardNumber CardType CardExpiry

Use case: "Add Film"

Actor supplies Film Details, including Title, Age Rating, Duration, Short Trailer System creates Film Details

Actions:

CreateFilm

Uses: Title, AgeRating, Duration, Trailer

Data:

Title AgeRating Duration Trailer

Use case: "Delete Film"

Actor requests a list of current Titles System retrieves a list of current Titles Actor selects Title System deletes Film Details

Actions:

RetrieveFilmList Uses: Title

DeleteFilm

Uses: Title, AgeRating, Duration, Trailer

Data:

Title AgeRating Duration Trailer

Use case: "Add Screen"

Actor provides Screen Details, including Screen Number and Capacity System creates Screen Details

Actions:

CreateScreen

Uses: ScreenNumber, Capacity

Data:

ScreenNumber Capacity

Use case: "Add Showing"

Actor requests to add a showing System retrieves a list of current Titles System retrieves a list of current Screens Actor supplies Showing Details, including Date and Time, Title, Screen Number System creates Showing Details

Actions:

RetrieveFilmList Uses: Title

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RetrieveScreenList

Uses: ScreenNumber, Capacity

CreateShowing

Uses: DateTime, Title, ScreenNumber

Data:

DateTime FilmTitle ScreenNumber Capacity

Use case: "Cancel Showing"

Actor requests to cancel a Showing

System retrieves a list of current Showings Actor selects a ShowingNumber System cancels Showing

Actions:

RetrieveShowingsList

Uses: ShowingNumber, DateTime

CancelShowing

Uses: ShowingNumber, DateTime

Data:

ShowingNumber

SUMMARY

Number of actions is: 15 Number of data is: 16 Number of uses is: 39