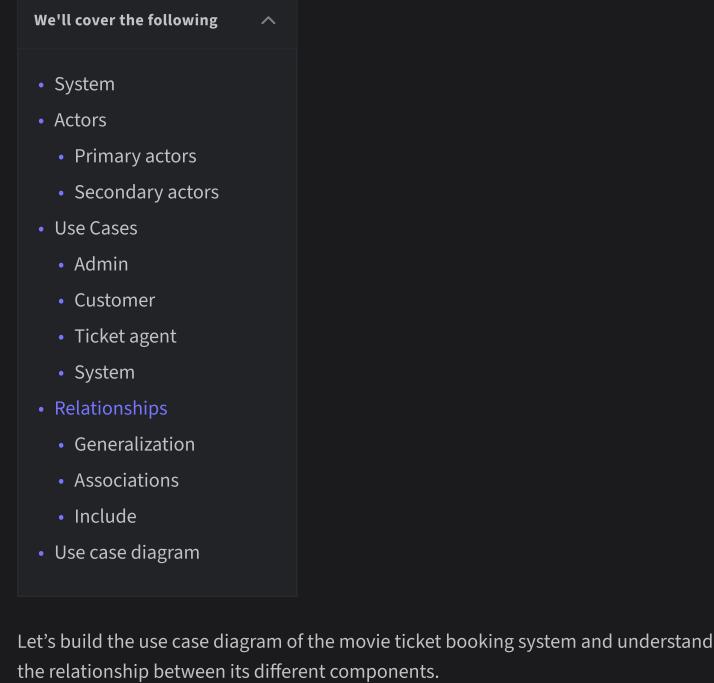
Use Case Diagram for the Movie Ticket **Booking System**

Learn how to define use cases and create the corresponding use case diagram for the movie ticket booking system.



by the complete use case diagram of the system. System

First, we'll define the different elements of our movie ticket booking system, followed

Our system is the "movie ticket booking system."

Now, we are going to define the main actors of our movie ticket booking system.

Actors

Primary actors

as modify and cancel the booking. They also need to pay for the movie tickets that they booked.

Secondary actors

the tasks that a customer can do, such as creating a booking of the movie ticket on behalf of the customer, except for modifying and canceling a booking.

• Ticket agent: The ticket agent will assist the customer and perform almost all

• Customer: This actor can book one or more movie tickets for any movie as well

• **Admin:** This can add, remove, or update a show and movie. • **System:** This is responsible for sending out notifications for new movies, bookings, cancellations, etc.

In this section, we will define the use cases for movie ticket booking systems. We have listed the use cases according to their respective interactions with a particular actor.

Use Cases

Admin

Note: You will see some use cases occurring multiple times because they are

Delete show: To delete or cancel a show **Add movie:** To add a new movie to the calendar

• Search movie: To search for any particular movie based on the given criteria

• **Delete movie:** To delete any particular movie

Customer

• Add show: To add a new show for any particular movie

• Search movie: To search for any particular movie based on the given criteria

(title, language, genre, release date)

(title, language, genre, release date)

any show of a movie

(title, language, genre, release date)

Modify show: To modify a show

shared among different actors in the system.

Create/Modify/View/Cancel booking: To create or cancel a booking for any show of a movie, and to view or modify the booking details for any show of a movie

• **Reserve a seat:** To reserve a seat from the available seats on a seating map for

• Pay using credit card/cash: To pay the movie ticket fee via credit card or cash Ticket agent

• Search movie: To search for any particular movie based on the given criteria

Reserve a seat: To reserve a seat from the available seats on a seating map for any show of a movie

Send new movie notification: To send a notification of any new movie launched

• Create/View booking: To create a booking for any show of a movie and view its

Send booking notification: To send a notification of the bookings made Send cancellation notification: To send a notification of any canceled bookings

Relationships

Generalization

Associations

Modify show

Delete show

Add movie

Search movie

Delete movie

Include

← Back

seating map.

details

System

We describe the relationships between and among actors and their use cases in this section.

We can search for a movie with the title, language, genre, or release date. This shows

that the "Search movie" use case has a generalization relationship with the "By movie

title," "By movie language," "By movie genre," and "By movie release date" use cases.

- The table below shows the association relationship between actors and their use cases.
- **Admin Ticket Agent** Customer Add show Search movie Search movie

Create/view/modify/cancel

Pay using credit card/cash

• The "Create booking" use case has an include relationship with the "Reserve

The "Pay using cash" and "Pay using credit card" use cases have an include

relationship with the "Send booking notification" use case, since once the

payment has been made and verified, only then will the system generate a

seat" use case, since the booking creation process includes reserving a seat on a

booking

Reserve a seat

S€

S€

S€

Create/view booking

Reserve a seat

notification. The "Cancel booking" use case has an include relationship with the "Refund payment" use case, since this is part of the process. The "Add movie" use case has an include relationship with the "Send new movie notification" use case, since a notification will only be sent when an admin adds a new movie. The "Cancel booking," "Delete movie," and "Delete show" use cases have an include relationship with the "Send cancellation notification" use case, since a notification will only be sent when an admin cancels the show or the movie or a customer cancels their booking. Use case diagram Here is the use case diagram of the movie ticket management system:

Movie ticket booking system

By movie genre

By movie

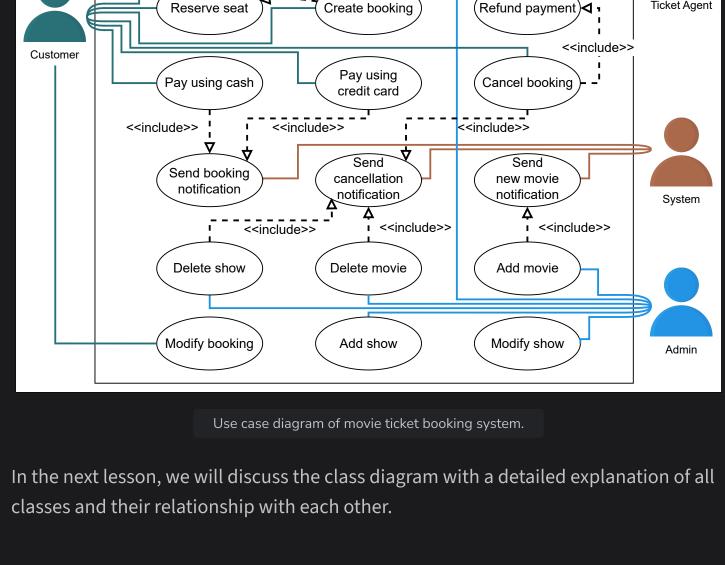
release date

Ticket Agent

By movie By movie title Search movie language

<<include>>

View booking



Complete Requirements for the Movie Ticket Bookin...

Next \rightarrow Class Diagram for the Movie Ticket Bookin...