# UML Class Diagram - Movie Ticket Booking System

## GORASSO Manon

**Customer :**
- has limited access on the database for any cinema :
  - has access to views for the screenings for any cinema
  - has access to views for the price of tickets

**CustomerManager :**
- has limited access on the database for the cinema they work for :
  - has access to views for the screenings
  - can update the Ticket table

**CinemaManager :**
- has full access on the database for their cinema :
  - has access to views for the screenings for any cinema
  - can update the Ticket table
  - can update the Screening table for his cinema
  - can update the CinemaPerManager table for his cinema (add or revoke Customer Manager Role on User)

**Administrator:**
- has full access on the database for any cinema :
  - has access to views for the screenings for any cinema
  - can update the Screen table for any cinema
  - can update the Movie table for any cinema
  - can update the Screening table for any cinema
  - can update the CinemaPerManager table for any cinema
  - can update the CinemaManager table for any cinema



### CinemaManager
+update_screening()
+update_customer_manager()

### Administrator
+update_cinema()
+update_movie()
+update_cinema_manager()

### Cinema
-name : string
-address : string
-city : string
-post_code : int
-phone_number : int

### Screen
-screen_number : int
-total_amount_seats : int

### Movie
-title : string
-description : string
-duration_min : int

### <<enumeration>> RoleType
Customer
Customer Manager
Cinema Manager
Administrator

### Role
-role_name : string

### UserRole

### Customer
+view_screenings()
+ask_for_booking_ticket()

### Screening
-date : date
-time : time

### User
-email : string
-username : string
-password : string
_is_student : boolean
-birthday : date

### CustomerManager
+confirm_booking_ticket()
+confirm_payment_ticket()
+confirm_cancellation_ticket()

### Ticket

### Price
-name : string
-price : decimal
-currency : string

### <<enumeration>> StatusType
Booked
Payed
Cancelled

### TicketStatus
-name_status : string