1. Sequence Diagram
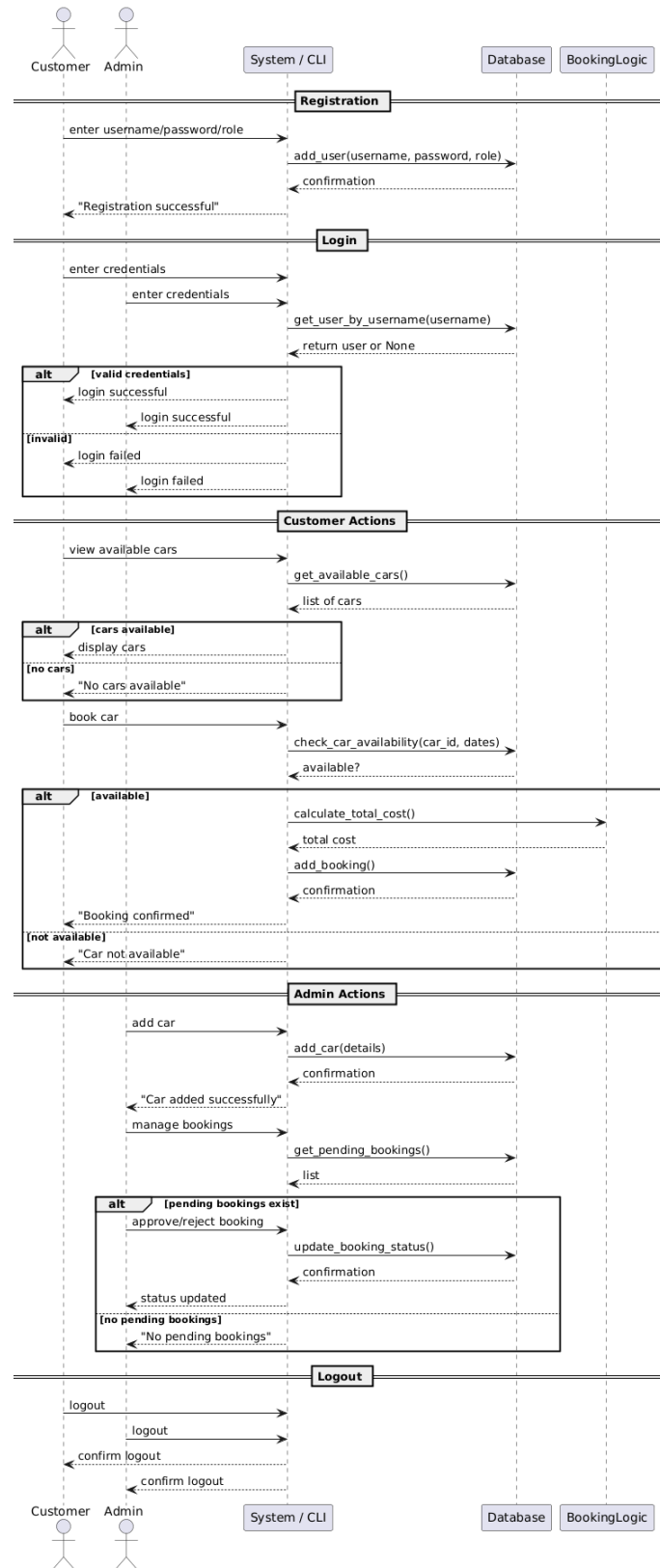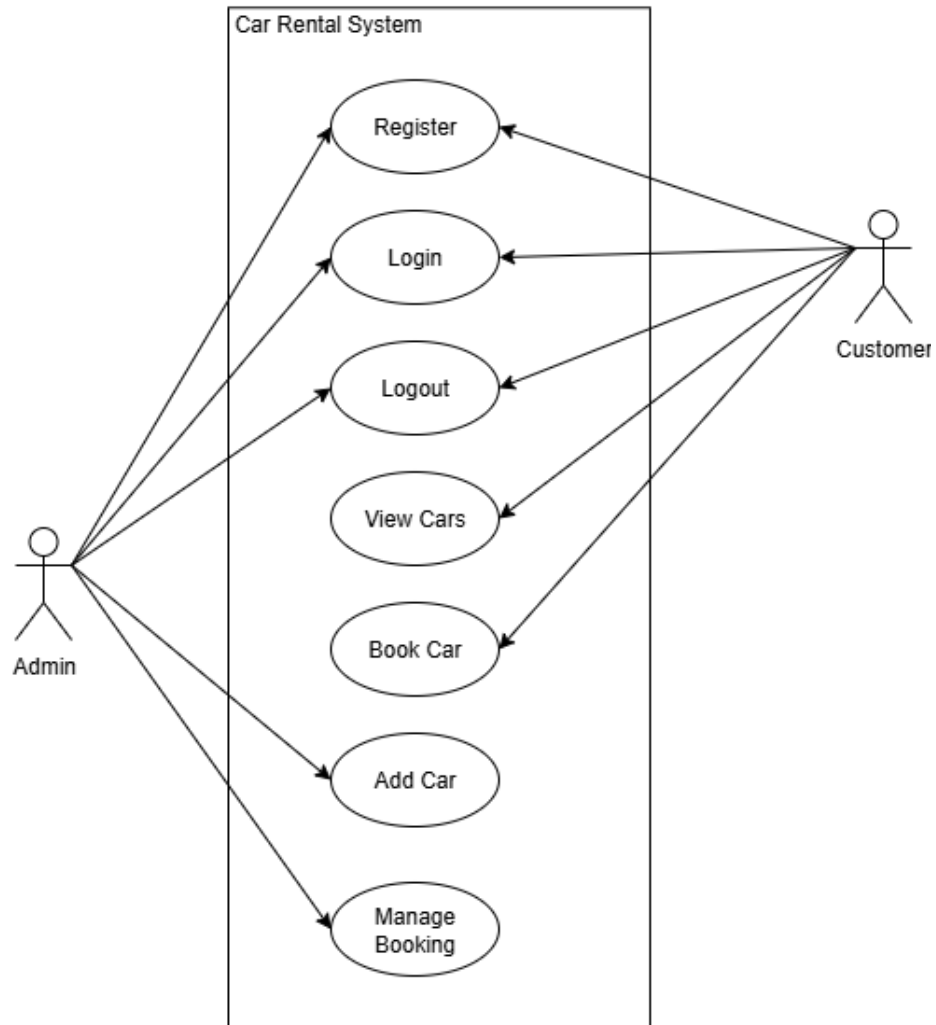
2. User Diagram

Car Rental System

Register

Login

Logout

View Cars

Book Car

Add Car

Manage
Booking

Customer

Admin

3. Class Diagram

User

user_id : int
username : string
password : string

login()
logout()

Customer

customer_id : int
name : string
email : string
phone : string

register()
view_cars()
book_car(car_id)

Database

connection_string : string

connect()
save_data(entity)
retrieve_data(entity)

Admin

admin_id : int
role : string

add_car(car)
remove_car(car_id)
manage_bookings(booking_

Booking

booking_id : int
booking_date : date
return_date : date
status : string (Pending,
Approved, Rejected)

create_booking(customer, car)
cancel_booking()
update_status(status)

Car

car_id : int
model : string
brand : string
year : int
price_per_day : float
availability : bool

update_availability(status)
get_details()

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