Online Car Rental System

Quick car reservation for customers and a thorough business management solution for car rental owners.

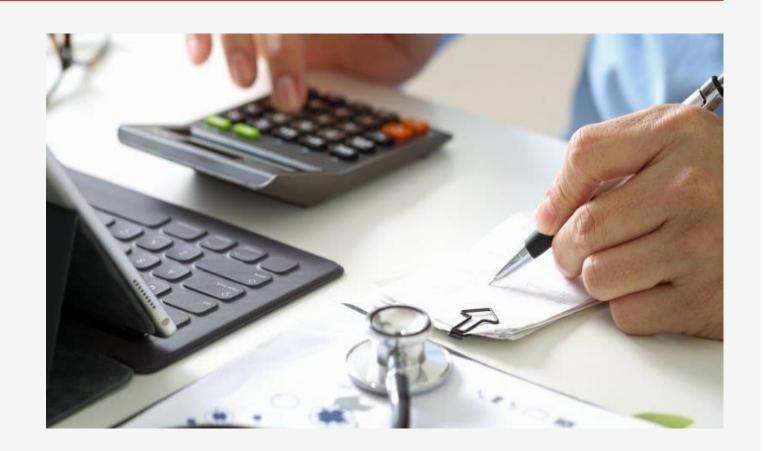


Problem Statement

Car reservation and business management is complex and ineffective to manually track the rental records.

- Cash based payment records bookkeeping.
- Manual car inventory management
- Walk-in car reservation by customers
- Know Your Customer (KYC) management

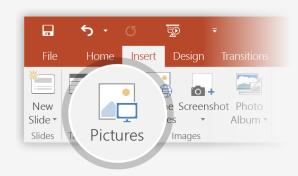
Solution: An online web application to solve all the above problem.

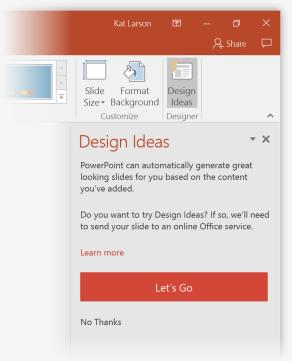


Key Features

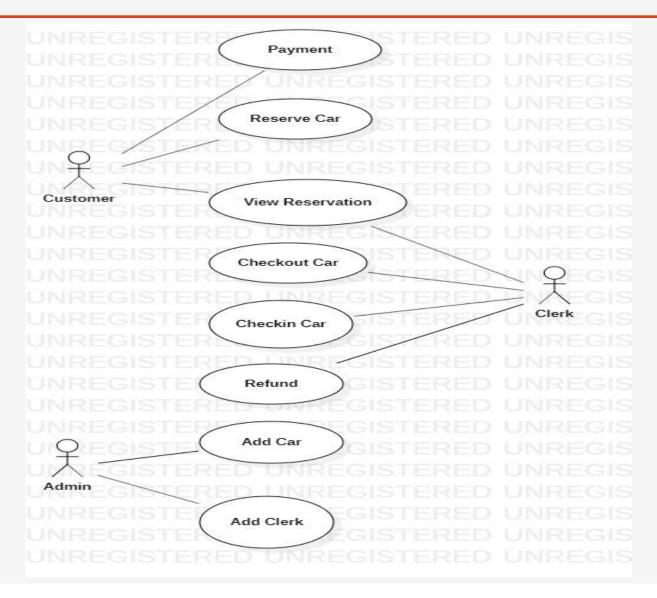
- 1 Car Reservation & Payment
- Car Inventory Management (Car check-in & checkout)

- 3 Reporting
- 4 KYC





Use case Diagram



Use case Description 1: Reserve Car

Use Case Number: 4

Name: Car reservation CRUD

Brief Description: Create, read, delete and update reservation

Actors: Customer

Precondition: To read, delete and update car reservation, customer must login

Flow of Events:

4. Basic Flows

1.1.0 Reserve Car

Step	User Actions	System Actions
1.	The customer loads the available cars	The system displays the available cars
2.	The customer selects the car from the list	The system displays the details of the
		selected car and load the reservation form.
3.	Customer fills reservation & payment form and	The system saves the reservations and
	submits for the system to save.	processes payment.

Post conditions

The payment is processed and the reservation is saved in the system

The Clerk is notified about the new reservation. Customer is notified about the payment and reservation status.

Business Rules

The same car cannot be reserved more than once on the same date and time.

Use case Description 2: Checkout Car

Use Case Number: 5

Name: Car checkout

Brief Description: Checking out the reserved car

Actors: Clerk

Precondition: The car must be reserved, and customer must present the valid reservation ID, Clerk must be logged in

Flow of Events:

1. Basic Flows

3.1.0 Checkout car

Step	User Actions	System Actions
1	The Clerk loads the Reservation Search Form	The system displays the reservation search
		form.
2	Clerk enters the reservation ID and submit	The system verifies that the reservation ID
	search form.	is valid and load reservation details.
	Clerk clicks the button of checking out the car	The system flags the car as checked out.

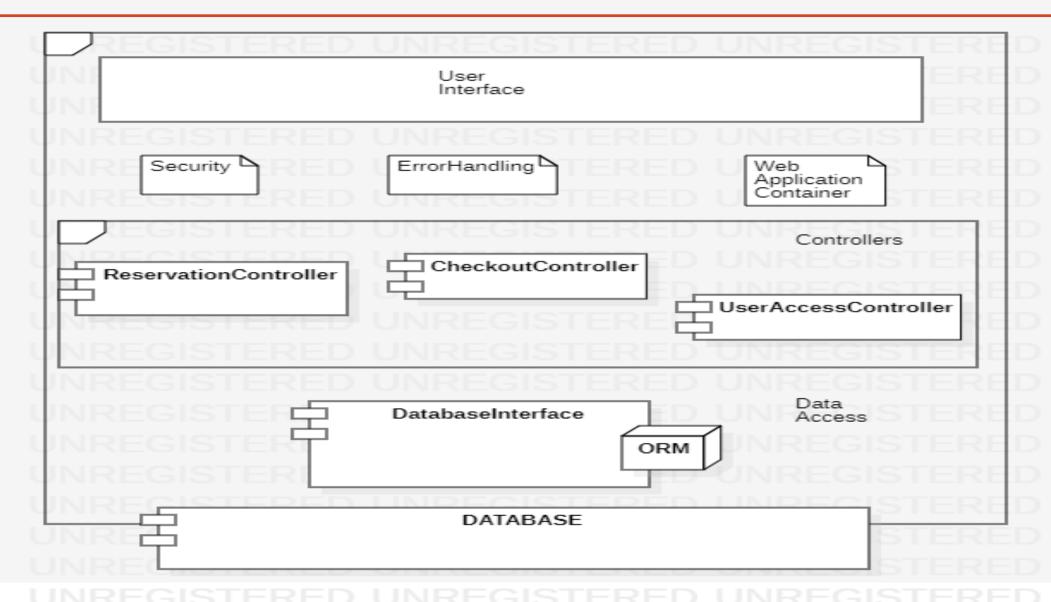
post conditions

The car is flagged as checked out.

Business Rules

Car cannot be checked more than once at time.

Architecture Diagram



Key Abstractions

1 Customer

4 Car category

7 Check-in record

10 Clerk

2 Customer

Check-out record

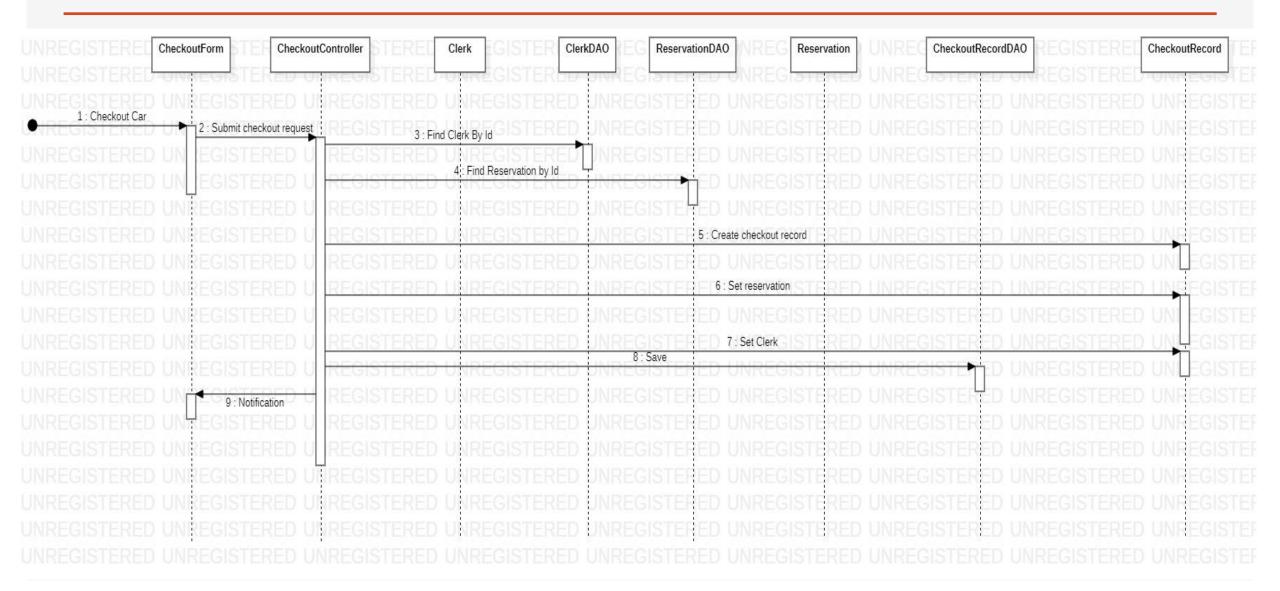
8 Car catalog

3 Account

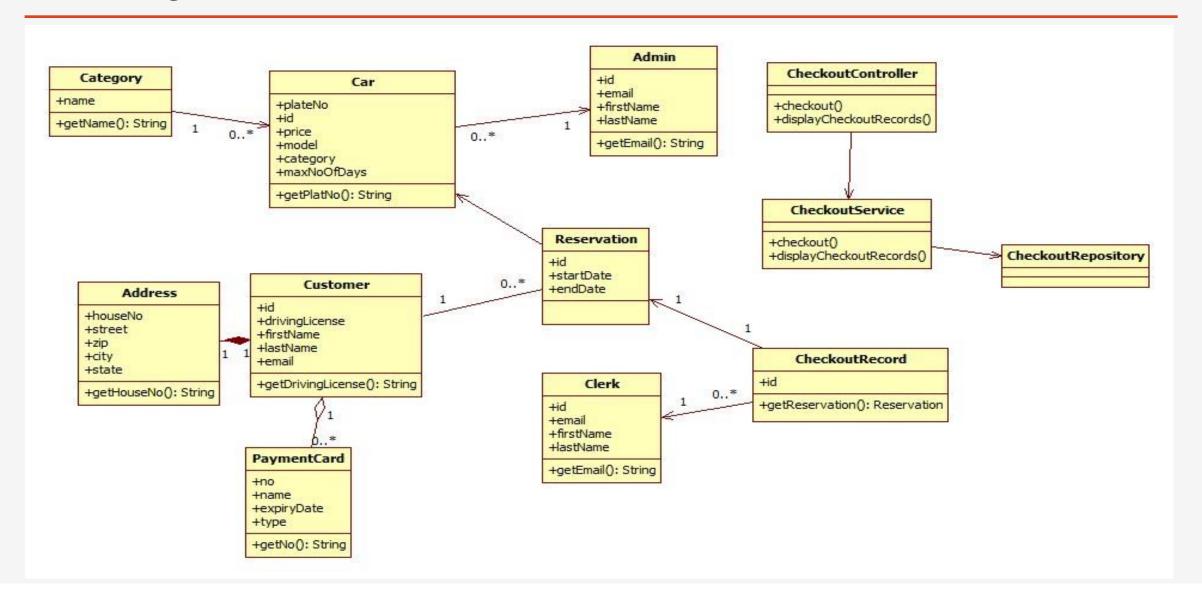
6 Admin

9 Credit Card

Sequence Diagram: Checkout Car



Class Diagram



THE END

