

Booking Management System



Name	Booking a vehicle for hire	
Summary	Renter books a vehicle for a hire	
Priority	2	
Preconditions	Renter must login to the system	
Postconditions	Renter can have reservation confirmation	
Primary Actor(s)	Renter , Vehicle Owner , Driver	
Main Scenario	Step	Action
	1	Renter selects the booking type as hire
	2	Renter filter and select a vehicle based on vehicle type and price ,etc.
	3	Renter visits vehicle details page
	4	Renter checks vehicle availability
	5	Renter fills the request booking form with necessary information such as rental duration, pickup and return location, etc.
	6	Renter clicks on request booking button
	7	Vehicle owner confirms vehicle availability
	8	Vehicle owner check driver availability
	9	Vehicle owner accepts booking request
	10	System notify renter with booking payment
	11	Renter pays the booking payment
	12	System shows booking successful msg to renter
	13	System notifies vehicle owner about booking payment
	14	Vehicle owner confirms booking payment
	15	Vehicle owner reserve vehicle for renter
	16	Vehicle owner updates vehicle availability
	17	System generates full payment bill after trip
	18	Renter pays full payment
	19	Renter gives rating to vehicle and driver
	20	Vehicle owner confirm payment received
	21	Vehicle owner pays to driver
	22	Driver confirms payment
Extensions	Step	Action
	7a	if the vehicle is not available, the system notifies the renter about the unavailability and suggests other available vehicles.

	8a	if the driver is not available, the vehicle owner attempts to assign another driver
	8b	If the vehicle owner fails to find an alternative driver, they inform the system about the vehicle's unavailability.
	11a	if the payment fails, the system notifies the renter about the failed payment and asks them to try again or use a different payment method.

User Story : Booking a Vehicle for Hire

As a Renter,

I want to log into the system,

So that I can book a vehicle for hire.

As a Renter,

I want to select the booking type as hire,

So that I can proceed with the booking process.

As a Renter,

I want to filter and select a vehicle based on vehicle type, price and location

So that I can choose the best vehicle for my needs.

As a Renter,

I want to check the vehicle's availability,

So that I can ensure the vehicle is available for hire.

As a Renter,

I want to fill out the request booking form with necessary information,

So that I can request a booking for the vehicle.

As a Vehicle Owner,

I want to confirm the vehicle's availability,

So that I can accept or reject the booking request.

As a Vehicle Owner,

I want to check the driver's availability,

So that I can ensure a driver is available for hire.

As a Vehicle Owner,

I want to accept the booking request,

So that I can reserve the vehicle for the renter.

As a Renter,

I want to pay the booking payment,

So that I can confirm my booking.

As a Renter,

I want to receive a booking successful message,

So that I know my booking has been successful.

As a Vehicle Owner,

I want to confirm the booking payment,

So that I can finalize the booking.

As a Vehicle Owner,

I want to update the vehicle's availability,

So that the system reflects the current availability of the vehicle.

As a Renter,

I want to pay the final payment after hire.

So that I can complete my payment

As a Vehicle Owner

I want to receive final payment.

So that I can return vehicle from renter

As a Vehicle Owner

I want to pay the driver.

So that driver can have the payment.

As a Driver

I want to confirm payment.

So that Owner can know to payment is successful.

As a Vehicle Owner

I want to change vehicle availability status.

So that other Renters can hire or rent the vehicle.

Name	Booking vehicle for rent	
Summary	Renter books a vehicle for a rent	
Priority	2	
Preconditions	Renter must login to the system	
Postconditions	Renter can have reservation confirmation	
Primary Actor(s)	Renter, Vehicle Owner	
Main Scenario	Step	Action
	1	Renter selects the booking type as rent
	2	Renter filter and select a vehicle based on vehicle type and price,etc.
	3	Renter visits vehicle details page
	4	Renter checks vehicle availability
	5	Renter fills the request booking form
	6	Renter clicks on request booking button
	7	Vehicle owner confirms vehicle availability
	8	Vehicle owner accepts booking request
	9	System notify renter with booking payment
	10	Renter pays the booking payment
	11	System shows booking successful msg to renter
	12	System calculates amount of deposit and display to renter
	13	System display required documents for reserve vehicle
	14	System notifies vehicle owner about booking payment
	15	Vehicle owners confirm booking payment
	16	Renter pays the deposit and reserve vehicle

	17	Vehicle owner updates vehicle availability
	18	System Calculates Final Payment after renter returns vehicle back
	19	System Reduces Final Payment from Deposit
	20	Owner returns remaining deposit to renter
Extensions	Step	Action
	7a	if the vehicle is not available, the system notifies the renter about the unavailability and suggests other available vehicles.
	10a	if the payment fails, the system notifies the renter about the failed payment and asks them to try again or use a different payment method.
	13a	if the renter does not have the required documents for reserving the vehicle, the system informs the renter about the missing documents and asks them to provide them.
	18a	if the vehicle is returned with damage, the system adds a damage fee to the final payment.
	18b	if the vehicle is returned late, the system adds a late fee to the final payment.

User Story: Booking a Vehicle for rent

As a Renter,

I want to log into the system,

So that I can book a vehicle for rent.

As a Renter,

I want to select the booking type as rent,

So that I can proceed with the booking process.

As a Renter,

I want to filter and select a vehicle based on vehicle type and price,

So that I can choose the best vehicle for my needs.

As a Renter,

I want to check the vehicle's availability,

So that I can ensure the vehicle is available for rent.

As a Renter,
I want to fill out the request booking form,
So that I can request a booking for the vehicle.

As a Vehicle Owner,
I want to confirm the vehicle's availability,
So that I can accept or reject the booking request.

As a Vehicle Owner,
I want to accept the booking request,
So that I can reserve the vehicle for the renter.

As a Renter,
I want to pay the booking payment,
So that I can confirm my booking.

As a Renter,
I want to receive a booking successful message,
So that I know my booking has been successful.

As a Vehicle Owner,
I want to confirm the booking payment,
So that I can finalize the booking.

As a Renter
I want to pay the full deposit for the vehicle
So that I can rent the vehicle without driver

As a Renter
I want to submit all required documentations
So that I can prove myself to vehicle owner.

As a vehicle owner

I want to confirm deposit and required documentations.
So that I can decide the renter can trusted or not

As a Vehicle Owner,
I want to update the vehicle's availability as booked.
So that other renters can't book this vehicle until it available.

As a renter
I want to return vehicle after reserved time.
So that I can return deposit

As a Vehicle Owner
I want to calculate the cost and reduce it from deposit.
And return remaining deposit to renter.

As a vehicle Owner
I want to update vehicle availability,
So other renters can hire or rent this vehicle again.

Functional Requirements:

The system should allow the renter to log in.
The system should allow the renter to select the booking type (hire or rent).
The system should allow the renter to filter and select a vehicle based on vehicle type, price, etc.
The system should display vehicle details to the renter.
The system should allow the renter to check vehicle availability.
The system should allow the renter to fill a request booking form with necessary information.
The system should allow the vehicle owner to confirm vehicle availability.
The system should allow the vehicle owner to check driver availability (for hire).
The system should allow the vehicle owner to accept the booking request.
The system should notify the renter with booking payment details.
The system should allow the renter to pay the booking payment.
The system should show a booking successful message to the renter.

The system should notify the vehicle owner about the booking payment.
The system should allow the vehicle owner to confirm the booking payment.
The system should allow the vehicle owner to reserve the vehicle for the renter.
The system should allow the vehicle owner to update vehicle availability.

Non-Functional Requirements:

The system should be user-friendly, with an intuitive interface for both renters and vehicle owners and drivers.
Security, usability, performance, reliability, scalability, compatibility
The system should be able to send notifications in real-time.
The system should be available 24/7 with minimal downtime.
The system should ensure the privacy and security of user data.
The system should be easy to use and navigate for all types of users, vehicle renters and vehicle owners.

Technical Requirements:

The system should be web-based, accessible via any modern web browser.
The system should be built using a reliable and scalable tech stack.
The system should use a secure database for storing user data.
The system should be hosted on a secure and reliable web server.