

BUKIDNON STATE UNIVERSITY
COLLEGE OF TECHNOLOGIES
INFORMATION TECHNOLOGY DEPARTMENT



JJC Car Rental Management System

A Project Presented to
The Information Technology Department

In Partial Fulfillment of the Requirement for the Course

IT126 - Information Management and
IT129 - Integrative Programming and Technologies 1

by

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JJC Car Rental Management System

I. Background

The car rental industry provides essential transportation services for both leisure and business needs. Traditional bookings have been managed manually through in-person or phone transactions, which have become increasingly inefficient as customer expectations shift toward digital solutions. As demand for online services grows, car rental businesses must evolve or adapt to remain competitive. This project explores how digital solutions can improve efficiency, streamline operations, and enhance the customer experience in the car rental industry.

I.1 Identifying the Problem

Car Rentals currently uses a manual process for handling customer bookings, face-to-face inquiries. This method is slow, inconsistent, and inconvenient for both customers and car owners. Clients often experience delays when checking availability or confirming reservations. The lack of a centralized system means vehicle information, pricing, and rental terms are not always clearly communicated, leading to misunderstandings and hidden charges. The absence of customer reviews limits transparency and makes it harder for new clients to make confident rental choices. These challenges lead to lower customer satisfaction and increase the workload for the business owners, emphasizing the need for a more efficient and user-friendly solution.

I.2 The Solution

JJC Car Rentals develop a web-based car rental system. This platform allows customers to browse available vehicles, view complete specifications, check rental fees, compare vehicles, and make bookings online all in one place. It ensures transparency by clearly displaying prices and removing hidden charges. The system also includes a review feature, where customers can share feedback to help others make informed decisions. On the car owner dashboard, owners can manage cars, and accept bookings through a secure dashboard. This solution improves booking speed, eliminates confusion, and provides a more reliable and user-friendly experience for both customers and car owners.

I.3 Key Benefits

The web based system brings significant benefits to every Car Rentals. Customers can now book vehicles quickly and conveniently without needing to visit their offices. They have access to detailed car information, clear pricing, and real customer reviews, which builds trust and helps them make better decisions. For the business, the system simplifies management by allowing car owners to handle bookings, monitor availability, and update vehicle data efficiently. The solution improves customer satisfaction, reduces manual work, and prepares the business for future growth.

II. Diagrams (with descriptions each diagram)

Diagram 01. Data Flow

Diagram 1.1 Customer Flow in Car Rental System

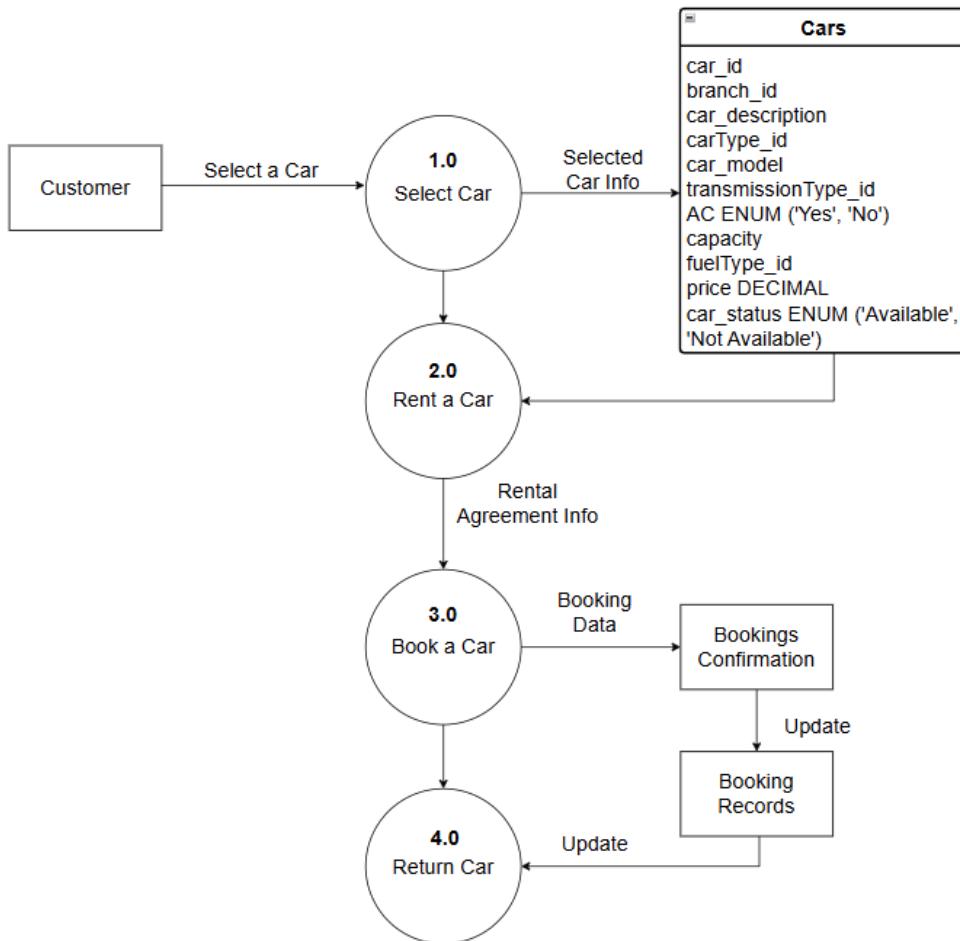


Figure 01. User Flow

The data flow diagram represents the process of a customer renting a car through the car rental system. The process begins when the customer selects a car from the available options, with car details retrieved from the system's car inventory. Once a car is selected, the customer proceeds to provide rental details such as the duration and start date of the rental.

Next, the customer confirms the booking, and the system records the booking information in the booking records while also generating a booking confirmation for the customer. After using the car, the customer returns it, and the system updates both the car's availability status in the car inventory and the rental history in the booking records.

Diagram 1.2 Car Owner Data Flow

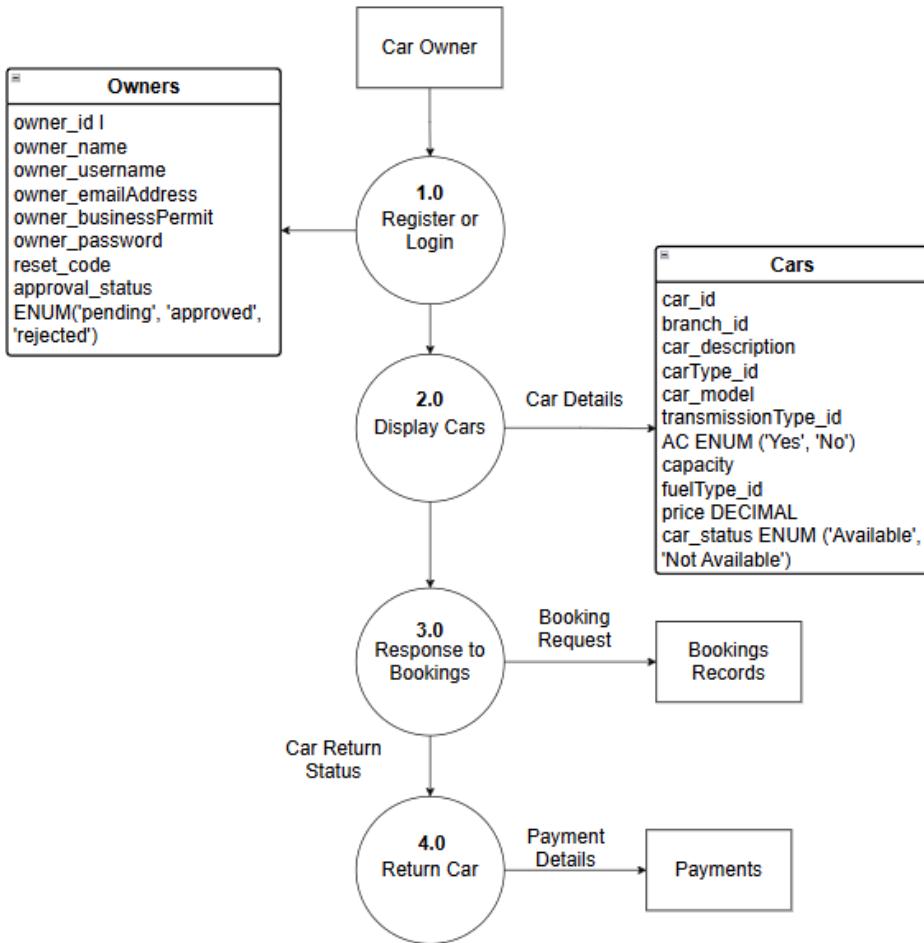
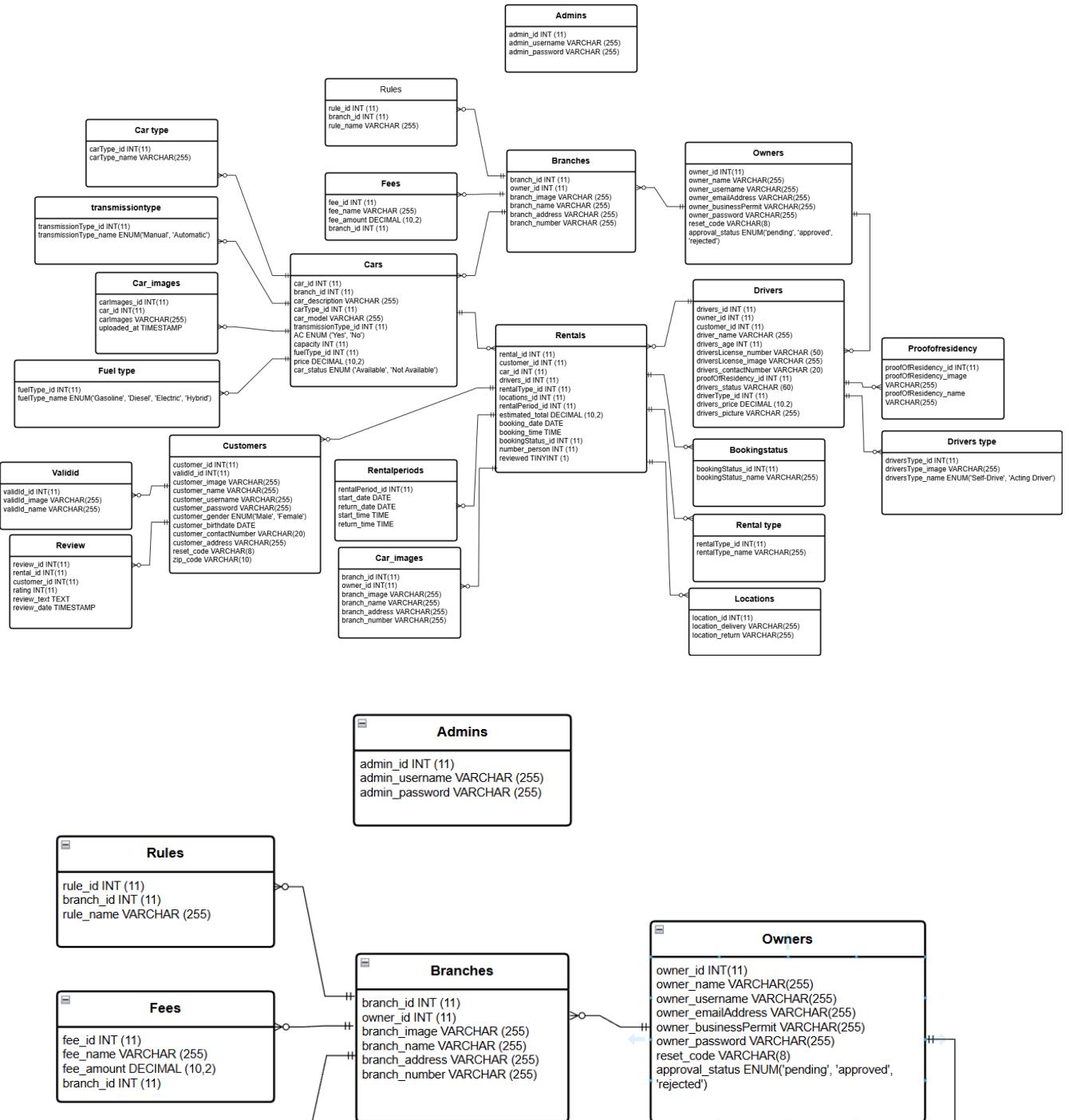


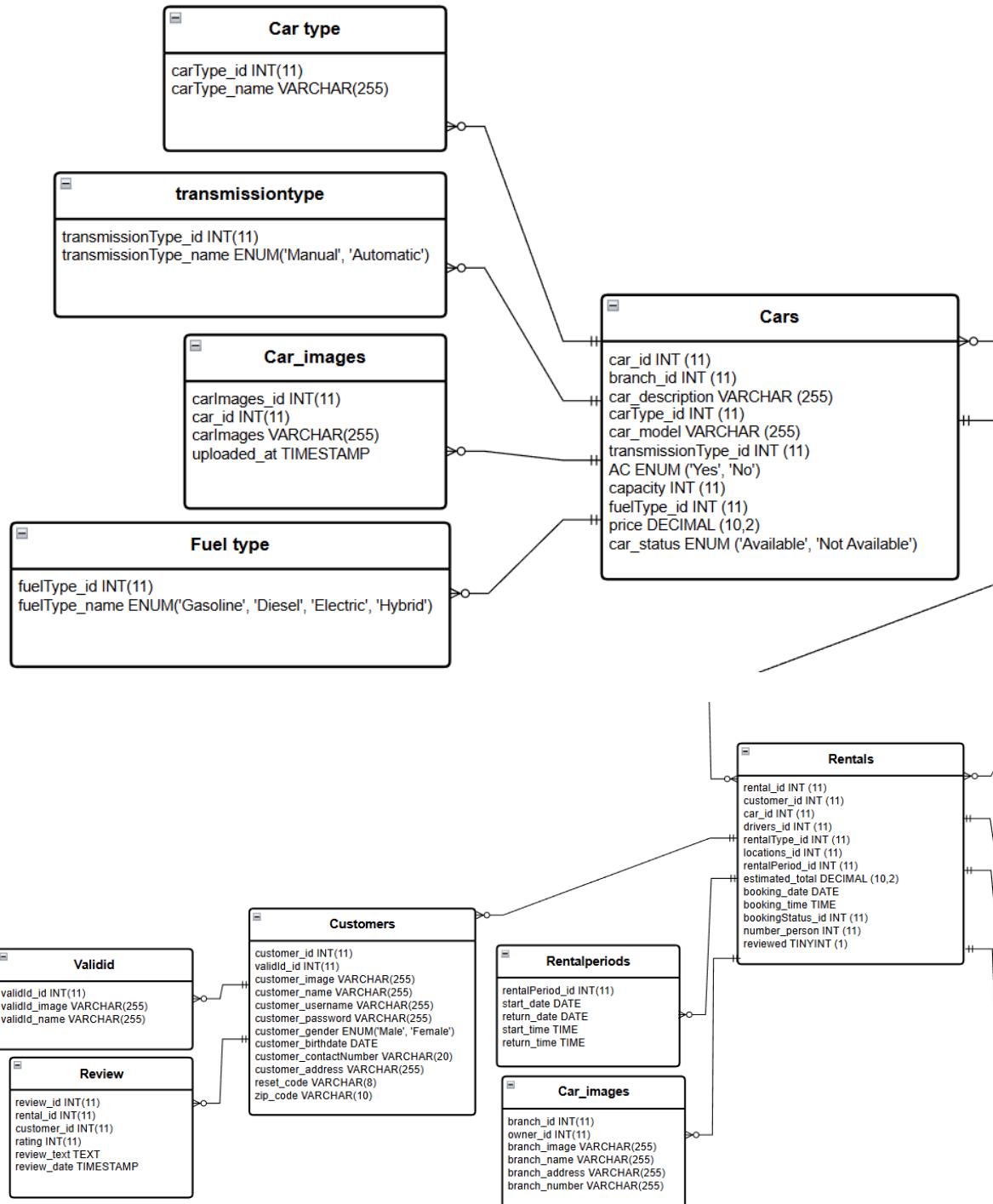
Figure 01. Owners Flow

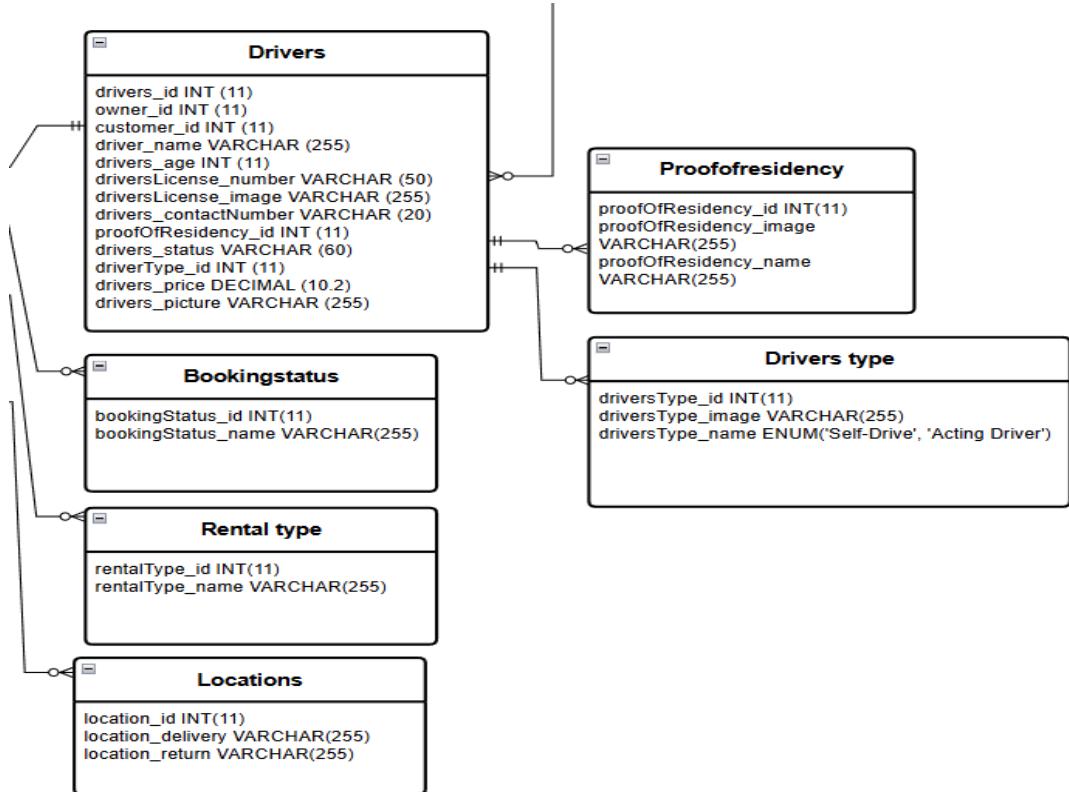
This data flow diagram illustrates how a **car owner** interacts with the car rental system. The process begins when the car owner **registers or logs in**, and their credentials are stored or verified using the **Owner Profile** data store. Once authenticated, the owner can **manage car details**, such as adding or updating information about their vehicles, which is stored in the **Car Inventory**.

The owner can then **view and respond to booking requests** made by customers. These booking details are retrieved from the **Bookings Records**. After a car is rented and returned, the system provides the owner with **return status updates** and corresponding **payment details**, which are stored in the **Payments** data store. This flow ensures that car owners can securely manage their cars, monitor bookings, and receive earnings through an organized, interactive system.

Diagram 02. Physical Data Model







The physical data model of the Car Rental Management System includes key tables such as cars, rentals, customers, and drivers to manage vehicle inventory, booking transactions, and user information. The system supports multi-branch operations with the branches table and links vehicles to specific types through reference tables like car_type, fuel_type, and transmission_type. Supporting tables such as owners, fees, and rules manage vehicle ownership, pricing, and branch-specific policies. The admins table handles system-level access, while rental_periods and booking_status ensure precise tracking of rental timelines and statuses. Account and role management is facilitated by drivers_type and proof_of_proficiency, while user feedback and data verification are handled through review and validation. Image storage is managed through the car_images table. This structure supports secure, efficient, and scalable vehicle rental operations across multiple locations.

Diagram 03. Database Normalization (raw data to last normal form)

Customers_Name	Email_Address	Password	Age	Valid_ID	Contact_Number	Address	Owner_Name
Jhb Rendon	jhb@gmail.com	jhb123	25	National ID	9112233445	Casisang Malaybalay City	Oscar
Jimmy Pingcas	jimmy@gmail.com	jimmy123	26	Voters ID	9223344556	New Ilcos Malaybalay City	Wiggy
Christian Principe	christian@gmail.com	christian123	27	SSS ID	9334455667	San Jose Malaybalay City	Boboards
Ian Dalmento	ian@gmail.com	ian123	28	Pag Ibig ID	9445566778	Kalasungay Malaybalay City	Pepito
Mark Trinidad	mark@gmail.com	mark123	29	Pag Ibig ID	9556677889	Km-4 Malaybalay City	Marlon

Email_Address	Password	Business_Permit	Contact_Number	Branch_Name	Shop_Address	Car_Type	Car_Model
Rasco@gmail.com	gwapokoi23	Business_123	09234579168	Oscar branch 1, Oscar branch 2	Casisang, KM4	Pickup Truck	Ford Ranger
Wiggys123@gmail.com	wiggy123	Business_456	09145216687	wiggys branch	Sanjose	Van, SUV	Toyota HiAce, Toyota Fortuner.
Bords163@gmail.com	bobboards123	Business_467	09469512387	bords branch	Dalwangan	Sedan	Vios
Pits000@gmail.com	pepito123	Business_999	09825619665	pits branch	Market	SUV	Toyota Fortuner
Marlonsakalam@gmail.com	nolram321	Business_789	09851358359	Ionskie branch	Valencia	Van, Sedan	Toyota HiAce, Vios

Transmission_Type	AC	Plate_Number	Mileage	Drivetrain	Capacity	Fuel_Type	Price	Status	Rental_Type
Manual Transmission (MT)	Aircon	ABC 1234, MNO 123	Limited(16km)	Front-Wheel Drive (FWD)		4 Diesel	₱10000	Available	Delivery
Automatic Transmission (AT)	No-Aircon	DEF 1235, JKL 1234	Unlimited	Rear-Wheel Drive (RWD)		12, 7 Diesel	₱11000	Reserved	Self Pickup
Semi-Automatic Transmission	Aircon	GHI 1236	Limited(16km)	All-Wheel Drive (AWD)		4 Gasoline	₱2500	Rented	Delivery
Manual Transmission (MT)	No-Aircon	XYZ1234	Unlimited	Four-Wheel Drive (4WD or 4x4)		7 Diesel	₱2500	In Maintenance	Self Pickup
Automatic Transmission (AT)	Aircon	STW 1235, PQR 1236	Limited(16km)	Front-Wheel Drive (FWD)		12, 4 Diesel, Gasoline	₱7500	Returned	Delivery

Delivery_Location	Return_Location	Pickup_Location	Return_Location	Booking_Type	Start Date	End Date	Start_Hours	End_Hours	Rules	Fees_Name	Fees_Amount	Estimated_Total
Casisang Malaybalay City	Casisang, KM4	Casisang, KM4	Casisang, KM4	Day(200)	04/01/2025	04/01/2025	4:00 AM	6:00 PM	Return the car on time.	Late Return Fee	₱500/hour	₱11000
New Ilcos Malaybalay City	Sanjose	Sanjose	Sanjose	Week(1400)	04/02/2025	04/02/2025	4:00 AM	6:00 PM	No smoking inside the car.	Damage Fee	₱500/hour	₱12000
San Jose Malaybalay City	Dalwangan	Sanjose	Sanjose	Month(6000)	04/03/2025	04/03/2025	4:00 AM	6:00 PM	Customer is responsible for any damages.	Cleaning Fee	₱500/hour	₱3000
Kalasungay Malaybalay City	Market	Sanjose	Sanjose	Week(1400)	04/04/2025	04/04/2025	4:00 AM	6:00 PM	Return the car with the same fuel level.	Fuel Refill Fee	₱500/hour	₱6500
Km-4 Malaybalay City	Valencia	Sanjose	Sanjose	Week(1400)	04/05/2025	04/05/2025	4:00 AM	6:00 PM	Valid driver's license is required.	Over Mileage Fee	₱500/hour	₱9500

Rental_Status	Booking_Date	Booking_Time	Rating	Comment	Date	Approved_Status	Payment_Status	Driver's_Name	Drivers_Age	Driver's_License	Contact_Number	Proof_of_Residency
Upcoming	04/01/2025	4:00 AM	1	wow	04/01/2025	Approved	Partially_Paid	Johny, Jonel	25	DL12345, DL12350	9112233445	Electric Bill
Completed	04/01/2025	4:00 AM	2	nice	04/02/2025	Rejected	Fully_Paid	Canor, James	26	DL12346, DL12351	9223344556	Water Bill
Inprogress	04/01/2025	4:00 AM	3	nice	04/03/2025	Pending	Unpaid	Angelo	27	DL12347	9334455667	Electric Bill
Cancelled	04/01/2025	4:00 AM	4	amazing	04/04/2025	Approved	Partially_Paid	Choji	28	DL12348	9445566778	Electric Bill
Upcoming	04/01/2025	4:00 AM	5	wow	04/05/2025	Approved	Fully_Paid	Lorie, Recmar	29	DL12349, DL12352	9556677889	Water Bill

Status	Driver_Type	Admin_Name	Email_Address	Password
Available	Acting Driver	Christian	christian@gmail.com	Chris123
Available	Self Drive	Jimmy	jimmy@gmail.com	jimmy123
Available	Acting Driver	Rendon	rendon@gmail.com	rendon123
Available	Self Drive	Christian	christian@gmail.com	christian123
Available	Acting Driver	Rendon	rendon@gmail.com	rendon123

Figure 01. Raw Data

1st Normal Form

Customers_ID	Customers_Name	Email_Address	Password	Age	Valid_ID	Contact_Number	Address	Owner_Name
C1	Jib Rondon	jhb@gmail.com	jhb123	25	National ID	9112233445	Casisang Malaybalay City	Oscar
C1	Jib Rondon	jhb@gmail.com	jhb123	25	National ID	9112233445	Casisang Malaybalay City	Oscar
C2	Jimmy Pingcas	jimmy@gmail.com	jimmy123	26	Voters ID	9223344556	New Ilocos Malaybalay City	Wiggy
C2	Jimmy Pingcas	jimmy@gmail.com	jimmy123	26	Voters ID	9223344556	New Ilocos Malaybalay City	Wiggy
C3	Christian Principe	christian@gmail.com	christian123	27	SSS ID	933455667	San Jose Malaybalay City	Bobboards
C4	Ian Dalmento	ian@gmail.com	ian123	28	Pag Ibig ID	944566778	Kalasungay Malaybalay City	Pepito
C5	Mark Trinidad	mark@gmail.com	mark123	29	Pag Ibig ID	9556677889	Km-4 Malaybalay City	Marlon
C5	Mark Trinidad	mark@gmail.com	mark123	29	Pag Ibig ID	9556677889	Km-4 Malaybalay City	Marlon

Email_Address	Password	Business_Permit	Contact_Number	Branch_Name	Shop_Address	Car_Type	Car_Model	Transmission_Type
Rasco@gmail.com	gwapoko123	Business_123	09234579168	Oscar branch 1	Casisang	Pickup Truck	Ford Ranger	Manual Transmission (MT)
Rasco@gmail.com	gwapoko123	Business_123	09234579168	Oscar branch 2	KM4	Pickup Truck	Ford Ranger	Manual Transmission (MT)
Wiggy123@gmail.com	wiggy123	Business_456	09145216687	wiggys branch	Sanjose	Van	Toyota HiAce	Automatic Transmission (AT)
Wiggy123@gmail.com	wiggy123	Business_456	09145216687	wiggys branch	Sanjose	SUV	Toyota Fortuner	Automatic Transmission (AT)
Bords163@gmail.com	bobboards123	Business_467	09469512387	bords branch	Dalwangan	Sedan	Vios	Semi-Automatic Transmission
Pitso000@gmail.com	pepit023	Business_999	09825619665	pits branch	Market	SUV	Toyota Fortuner	Manual Transmission (MT)
Marlonsakalam@gmail.com	nolram321	Business_789	09851358359	ionskie branch	Valencia	Van	Toyota HiAce	Automatic Transmission (AT)
Marlonsakalam@gmail.com	nolram321	Business_789	09851358359	ionskie branch	Valencia	Sedan	Vios	Automatic Transmission (AT)

AC	Plate Number	Mileage	Drivetrain	Capacity	Fuel_Type	Price	Status	Rental Type	Delivery_Location
Aircon	ABC 1234	Limited(16km)	Front-Wheel Drive (FWD)	4 Diesel	₱5000	Available	Delivery	Casisang	
Aircon	MNO 123	Limited(16km)	Front-Wheel Drive (FWD)	4 Diesel	₱5000	Available	Delivery	KM4	
No-Aircon	DEF 1235	Unlimited	Rear-Wheel Drive (RWD)	12 Diesel	₱6000	Reserved	Self Pickup	Sanjose	
No-Aircon	JKL 1234	Unlimited	Rear-Wheel Drive (RWD)	7 Diesel	₱6000	Reserved	Self Pickup	Sanjose	
Aircon	GHI 1236	Limited(16km)	All-Wheel Drive (AWD)	4 Gasoline	₱2500	Rented	Delivery	Dalwangan	
No-Aircon	JKL 1234	Unlimited	Four-Wheel Drive (4WD or 4x4)	7 Diesel	₱5000	In Maintenance	Self Pickup	Market	
Aircon	DEF 1235	Limited(16km)	Front-Wheel Drive (FWD)	12 Diesel	₱6000	Returned	Delivery	Valencia	
Aircon	GHI 1236	Limited(16km)	Front-Wheel Drive (FWD)	4 Gasoline	₱2500	Returned	Delivery	Valencia	

Return_Location	Pickup_Location	Return_Locatio	Rental_Period	Start Date	End Date	Start Hours	End Hours	Rules	Fees_Name	Fees_Amount	Estimated_Total
Casisang	Casisang	Casisang	Day(200)	04/01/2025	04/01/2025	4:00 AM	6:00 PM	Return the car on time.	Late Return Fee	₱500/hour	₱500
KM4	KM4	KM4	Day(200)	04/01/2025	04/01/2025	4:00 AM	6:00 PM	Return the car on time.	Late Return Fee	₱500/hour	₱500
Sanjose	Casisang	Casisang	Week(1400)	04/02/2025	04/02/2025	4:00 AM	6:00 PM	No smoking inside the car.	Damage Fee	₱500/hour	₱6500
Sanjose	KM4	KM4	Week(1400)	04/02/2025	04/02/2025	4:00 AM	6:00 PM	No smoking inside the car.	Damage Fee	₱500/hour	₱5500
Dalwangan	San Jose	San Jose	Month(6000)	04/03/2025	04/03/2025	4:00 AM	6:00 PM	Customer is responsible for any damages.	Cleaning Fee	₱500/hour	₱3000
Market	Sanjose	Sanjose	Week(1400)	04/04/2025	04/04/2025	4:00 AM	6:00 PM	Return the car with the same fuel level.	Fuel Refill Fee	₱500/hour	₱5500
Valencia	Sanjose	Sanjose	Week(1400)	04/05/2025	04/05/2025	4:00 AM	6:00 PM	Valid driver's license is required.	Over Mileage Fee	₱500/hour	₱6500
Valencia	Sanjose	Sanjose	Week(1400)	04/05/2025	04/05/2025	4:00 AM	6:00 PM	Valid driver's license is required.	Over Mileage Fee	₱500/hour	₱3000

Rental_Status	Booking Date	Booking Time	Rating	Comment	Date	Approved_Status	Payment_Status	Driver's_Name	Drivers_Age	Driver's_License	Contact_Number	Proof_of_Reside_Status
Upcomming	04/01/2025	4:00 AM	1	wow	04/01/2025	Approved	Partially_Paid	Johny	25	DL12345	9112233445	Electric Bill Available
Upcomming	04/01/2025	4:00 AM	1	wow	04/01/2025	Approved	Partially_Paid	Jonel	25	DL12350	9112233446	Electric Bill Available
Completed	04/01/2025	4:00 AM	2	nice	04/02/2025	Rejected	Fully_Paid	Canor	26	DL12346	9223344556	Water Bill Available
Completed	04/01/2025	4:00 AM	2	nice	04/02/2025	Rejected	Fully_Paid	James	26	DL12351	9223344557	Water Bill Available
Inprogress	04/01/2025	4:00 AM	3	nice	04/03/2025	Pending	Unpaid	Angelo	27	DL12347	9334455667	Electric Bill Available
Cancelled	04/01/2025	4:00 AM	4	amazing	04/04/2025	Approved	Partially_Paid	Choji	28	DL12348	944566778	Electric Bill Available
Upcomming	04/01/2025	4:00 AM	5	wow	04/05/2025	Approved	Fully_Paid	Lorie	29	DL12349	9556677889	Water Bill Available
Upcomming	04/01/2025	4:00 AM	5	wow	04/05/2025	Approved	Fully_Paid	Recmar	29	DL12352	9556677890	Water Bill Available

Driver_Type	Admin_Name	Email_Address	Password
Acting Driver	Christian	christian@gmail.com	Chris123
Acting Driver	Christian	christian@gmail.com	Chris123
Self Drive	Jimmy	jimmy@gmail.com	jimmy123
Self Drive	Jimmy	jimmy@gmail.com	jimmy123
Acting Driver	Rendon	rendon@gmail.com	rendon123
Self Drive	Christian	christian@gmail.com	christian123
Acting Driver	Rendon	rendon@gmail.com	rendon123
Acting Driver	Rendon	rendon@gmail.com	rendon123

Figure 02. First Normalization

Customers Table									
Customers_ID	Admin_Id	Customers_Name	Email_Address	Password	Age	Valid_ID	Contact_Number	Address	
C1	A1	Jihb Rendon	jhb@gmail.com	jhb123	25	National ID	9112233445	Cassisang Malaybalay City	
C2	A2	Jimmy Pingcas	jimmy@gmail.com	jimmy123	26	Voters ID	9223344556	New Ilcos Malaybalay City	
C3	A3	Christian Principe	christian@gmail.com	christian123	27	SSS ID	9334455667	San Jose Malaybalay City	
C4	A1	Ian Dalmento	ian@gmail.com	ian123	28	Pag Ibig ID	9445566778	Kalasungay Malaybalay City	
C5	A3	Mark Trinidad	mark@gmail.com	mark123	29	Pag Ibig ID	9556677889	Km-4 Malaybalay City	

Owners Table								
Owner_ID	Admin_Id	Owner_Name	Email_Address	Password	Business_Permit	Contact_Number	Branch_Name	Shop_Address
O1	A1	Oscar	Rasco@gmail.com	gwapoko123	Business_123	09234579168	Oscar branch 1	Cassisang
O1	A1	Oscar	Rasco@gmail.com	gwapoko123	Business_123	09234579168	Oscar branch 2	KM4
O2	A2	Wiggy	Wiggys123@gmail.com	wiggy123	Business_456	09145216687	wiggy's branch	Sanjose
O3	A3	Bobboards	Bords163@gmail.com	bobboards123	Business_467	09469512387	bords branch	Dalwangan
O4	A1	Pepito	Pits00@gmail.com	pepito123	Business_999	09825619665	pits branch	Market
O5	A3	Marlon	Marlonsakalam@gmail.com	nolram321	Business_789	09851358359	lonskie branch	Valencia

Car Tables								
Car_id	Owner_ID	Car_Type	Car_Model	Transmission_Type	AC	Plate Number		
CR1	O1	Pickup Truck	Ford Ranger	Manual Transmission (MT)	Aircon	ABC 1234		
CR2	O1	Pickup Truck	Ford Ranger	Manual Transmission (MT)	Aircon	MNO 123		
CR3	O2	Van	Toyota HiAce	Automatic Transmission (AT)	No-Aircon	DEF 1235		
CR4	O2	SUV	Toyota Fortuner	Automatic Transmission (AT)	No-Aircon	JKL 1234		
CR5	O3	Sedan	Vios	Semi-Automatic Transmission	Aircon	GHI 1236		
CR6	O4	SUV	Toyota Fortuner	Manual Transmission (MT)	No-Aircon	JKL 1234		
CR7	O5	Van	Toyota HiAce	Automatic Transmission (AT)	Aircon	DEF 1235		
CR8	O5	Sedan	Vios	Automatic Transmission (AT)	Aircon	GHI 1236		

Mileage	Drivetrain	Capacity	Fuel_Type	Price	Status
Limited(16km)	Front-Wheel Drive (FWD)	4	Diesel	₱5000	Available
Limited(16km)	Front-Wheel Drive (FWD)	4	Diesel	₱5000	Available
Unlimited	Rear-Wheel Drive (RWD)	12	Diesel	₱6000	Reserved
Unlimited	Rear-Wheel Drive (RWD)	7	Diesel	₱5000	Reserved
Limited(16km)	All-Wheel Drive (AWD)	4	Gasoline	₱2500	Rented
Unlimited	Four-Wheel Drive (4WD or 4x4)	7	Diesel	₱5000	In Maintenance
Limited(16km)	Front-Wheel Drive (FWD)	12	Diesel	₱6000	Returned
Limited(16km)	Front-Wheel Drive (FWD)	4	Gasoline	₱2500	Returned

Drivers Table											
Drivers_ID	Owner_ID	Customer_ID	Driver's_Name	Drivers_Age	Driver's_License	Contact_Number	Proof_of_Residency	Status	Driver_Type	Driver_Price	
D1	O1	Null	Johny	25	DL12345	Electric Bill	Available	Acting Driver	₱500		
D2	O1	Null	Jonel	25	DL12346	Electric Bill	Available	Acting Driver	₱500		
D3	Null	C2	Carmel	25	DL12348	Water Bill	Available	Self Drive	Null		
D4	Null	C2	James	26	DL12351	Water Bill	Available	Self Drive	Null		
D5	O3	Null	Angelo	27	DL12347	Electric Bill	Available	Acting Driver	₱500		
D6	Null	C4	Choi	28	DL12348	Electric Bill	Available	Self Drive	Null		
D7	O5	Null	Lorie	29	DL12349	Water Bill	Available	Acting Driver	₱500		
D8	O5	Null	Recmar	29	DL12352	Water Bill	Available	Acting Driver	₱500		

Rentals Table									
Rental_Id	Customer_Id	Car_id	Driver_Id	Owner_ID	Rental_Type	Delivery_Location	Return_Location	Pickup_Location	Return_Location
R1	C1	CR1	D1	O1	Delivery	Cassisang	Cassisang	Cassisang	Cassisang
R2	C1	CR2	D2	O1	Delivery	KM4	KM4	KM4	KM4
R3	C2	CR3	D3	O2	Self Pickup	Sanjose	Sanjose	Sanjose	Sanjose
R4	C2	CR4	D4	O2	Self Pickup	Sanjose	Sanjose	KM4	KM4
R5	C3	CR5	D5	O3	Delivery	Dalwangan	Dalwangan	San Jose	San Jose
R6	C4	CR6	D6	O4	Self Pickup	Market	Market	Sanjose	Sanjose
R7	C5	CR7	D7	O5	Delivery	Valencia	Valencia	Sanjose	Sanjose
R8	C5	CR8	D8	O5	Delivery	Valencia	Valencia	Sanjose	Sanjose

Rental_Period	Start Date	End Date	Start Hours	End Hours	Rules	Fees_Name	Fees_Amount	Estimated_Total
Day	04/01/2025	04/01/2025	4:00 AM	6:00 PM	Return the car on time.	Late Return Fee	₱500/hour	₱5500
Day	04/01/2025	04/01/2025	4:00 AM	6:00 PM	Return the car on time.	Late Return Fee	₱500/hour	₱5500
Week(1400)	04/02/2025	04/02/2025	4:00 AM	6:00 PM	No smoking inside the car.	Damage Fee	₱500/hour	₱6500
Week(1400)	04/02/2025	04/02/2025	4:00 AM	6:00 PM	No smoking inside the car.	Damage Fee	₱500/hour	₱5500
Month(6000)	04/03/2025	04/03/2025	4:00 AM	6:00 PM	Customer is responsible for any damage.	Cleaning Fee	₱500/hour	₱3000
Week(1400)	04/04/2025	04/04/2025	4:00 AM	6:00 PM	Return the car with the same fuel level.	Fuel Refill Fee	₱500/hour	₱5500
Week(1400)	04/05/2025	04/05/2025	4:00 AM	6:00 PM	Valid driver's license is required.	Over Mileage Fee	₱500/hour	₱6500
Week(1400)	04/05/2025	04/05/2025	4:00 AM	6:00 PM	Valid driver's license is required.	Over Mileage Fee	₱500/hour	₱3000

Rental_Status	Booking Date	Booking Time	Rating	Comment	Date	Approved_Status	Payment_Status
Upcomming	04/01/2025	4:00 AM	1	wow	04/01/2025	Approved	Partially_Paid
Upcomming	04/01/2025	4:00 AM	1	wow	04/01/2025	Approved	Partially_Paid
Completed	04/01/2025	4:00 AM	2	nice	04/02/2025	Rejected	Fully_Paid
Completed	04/01/2025	4:00 AM	2	nice	04/02/2025	Rejected	Fully_Paid
Inprogress	04/01/2025	4:00 AM	3	nice	04/03/2025	Pending	Unpaid
Cancelled	04/01/2025	4:00 AM	4	amazing	04/04/2025	Approved	Partially_Paid
Upcomming	04/01/2025	4:00 AM	5	wow	04/05/2025	Approved	Fully_Paid
Upcomming	04/01/2025	4:00 AM	5	wow	04/05/2025	Approved	Fully_Paid

Figure 03. Second Normalization

3rd Normal Form

Admins Table			
Admin_id	Admin_Name	Email_Address	Password
A1	Christian	christian@gmail.com	Chris123
A2	Jimmy	jimmy@gmail.com	jimmy123
A3	Rendon	rendon@gmail.com	rendon123

Valid ID Table		Branch Table			
Valid_ID_ID	Valid_ID	Branch_ID	Owner_ID	Branch_Name	Shop_Address
V11	National ID	B1	O1	Oscar branch 1	Casisang
V12	Voters ID	B2	O1	Oscar branch 2	KM4
V13	SSS ID	B3	O2	wiggys branch	Sanjose
V14	Pag Ibig ID	B4	O3	bords branch	Dalwangan
		B5	O4	pits branch	Market
		B6	O5	Ionskie branch	Valencia

Customers Table								
Customers_ID	Admin_Id	Valid_ID_ID	Customers_Name	Email_Address	Password	Age	Contact_Number	Address
C1	A1	V11	Jhb Rendon	jhb@gmail.com	jhb123	25	9112233445	Casisang Malaybalay City
C2	A2	V12	Jimmy Pingcas	jimmy@gmail.com	jimmy123	26	9223344556	New Illicos Malaybalay City
C3	A3	V13	Christian Principe	christian@gmail.com	christian123	27	9334455667	San Jose Malaybalay City
C4	A1	V14	Ian Dalmento	ian@gmail.com	ian123	28	9445677788	Kalasungay Malaybalay City
C5	A3	V14	Mark Trinidad	mark@gmail.com	mark123	29	9556677889	Km-4 Malaybalay City

Owners Table						
Owner_ID	Admin_Id	Owner_Name	Email_Address	Password	Business_Permit	Contact_Number
O1	A1	Oscar	Rasco@gmail.com	gwapokol123	Business_123	09234579168
O2	A2	Wiggy	Wiggy123@gmail.com	wiggy123	Business_456	09145216687
O3	A3	Bobards	Bordo163@gmail.com	bobards123	Business_467	09469512387
O4	A1	Pepito	Pits00@gmail.com	pepitol123	Business_999	09825619665
O5	A3	Marlon	Marlonsakalam@gmail.com	noirlam321	Business_789	09851358359

Car Tables							
Car_id	Owner_ID	Car_Type_ID	Car_Model	Transmission_Type_ID	AC	Plate_Number	
CR1	O1	CT1	Ford Ranger	TT1	Aircon	ABC 1234	
CR2	O1	CT1	Ford Ranger	TT1	Aircon	MNO 123	
CR3	O2	CT2	Toyota HiAce	TT2	No-Aircon	DEF 1235	
CR4	O2	CT3	Toyota Fortuner	TT2	No-Aircon	JKL 1234	
CR5	O3	CT4	Vios	TT3	Aircon	GHI 1236	
CR6	O4	CT3	Toyota Fortuner	TT1	No-Aircon	JKL 1234	
CR7	O5	CT2	Toyota HiAce	TT2	Aircon	DEF 1235	
CR8	O5	CT4	Vios	TT2	Aircon	GHI 1236	

Mileage	Drivetrain_Type_ID	Capacity	Fuel_Type_ID	Price	Status
Limited(16km)	DT1	4	FT1	₱5000	Available
Limited(16km)	DT1	4	FT1	₱5000	Available
Unlimited	DT2	12	FT1	₱6000	Reserved
Unlimited	DT2	7	FT1	₱5000	Reserved
Limited(16km)	DT3	4	FT2	₱2500	Rented
Unlimited	DT4	7	FT1	₱5000	In Maintenance
Limited(16km)	DT1	12	FT1	₱6000	Returned
Limited(16km)	DT1	4	FT2	₱2500	Returned

CarType table	Transmission Type table	Drivetrain table	Fuel Table	
CarType_id	Car_Type	Transmission_Type_ID	Fuel_Type_ID	Fuel_Type
CT1	Pickup Truck	TT1	PT1	Diesel
CT2	Van	TT2	PT2	Gasoline
CT3	SUV	TT3	PT3	
CT4	Sedan	PT4	PT4	

Drivers Table										
Driver's_ID	Owner_ID	Customer_Id	Driver's_Name	Drivers_Age	Driver's_License	Contact_Number	Proof of Residency	Status	Driver_Type	Driver_Price
D1	O1	Null	Johny	25	DL12345	9112334455	PR1	Available	DT1	₱500
D2	O1	Null	Jonel	25	DL12350	9122322333	PR1	Available	DT1	₱500
D3	Null	C2	Carino	26	DL12356	9223344559	PR2	Available	DT2	Null
D4	Null	C2	James	26	DL12351	9223344557	PR2	Available	DT2	Null
D5	O3	Null	Angela	27	DL12347	9334455667	PR1	Available	DT1	₱500
D6	Null	C4	Chogi	28	DL12348	9445566778	PR1	Available	DT2	Null
D7	O5	Null	Lorie	29	DL12349	9556677890	PR2	Available	DT1	₱500
D8	O5	Null	Reymar	29	DL12352	9556677890	PR2	Available	DT1	₱500

ProofOfResidency table		DriverType table	
ProofOfResidency_ID	Proof of Residency	Driver_Type_ID	Driver_Type
PR1	Electric Bill	DT1	Acting Driver
PR2	Water Bill	DT2	Self Drive

RentalsTable									
Rental_ID	Customer_ID	Car_ID	Driver_ID	Owner_ID	Rental_Type_ID	Delivery_Location_ID	Pickup_Location_ID	Return_Location_ID	
R1	C1	CR1	D1	O1	RT1	L1	L1	L1	
R2	C1	CR2	D2	O1	RT1	L2	L2	L2	
R3	C2	CR3	D3	O2	RT2	L3	L3	L3	
R4	C2	CR4	D4	O2	RT2	L3	L3	L3	
R5	C3	CR5	D5	O3	RT1	L4	L4	L4	
R6	C4	CR6	D6	O4	RT2	L5	L5	L5	
R7	C5	CR7	D7	O5	RT1	L6	L6	L6	
R8	C5	CR8	D8	O5	RT1	L6	L6	L6	

Rental_Period_ID	Start_Date	End_Date	Start_Hours	End_Hours	Rules	Fee_ID	Estimated_Total	Rental_Status_ID	Booking_Date	Booking_Time
RT1	04/01/2025	04/01/2025	4:00 AM	6:00 PM	Return the car on time.	F1	₱5500	RS1	04/01/2025	4:00 AM
RT1	04/01/2025	04/01/2025	4:00 AM	6:00 PM	Return the car on time.	F1	₱5500	RS1	04/01/2025	4:00 AM
RT2	04/02/2025	04/02/2025	4:00 AM	6:00 PM	No smoking inside the car.	F2	₱6500	RS2	04/01/2025	4:00 AM
RT2	04/02/2025	04/02/2025	4:00 AM	6:00 PM	No smoking inside the car.	F2	₱6500	RS2	04/01/2025	4:00 AM
RT3	04/03/2025	04/03/2025	4:00 AM	6:00 PM	Customer responsible for damages.	F3	₱3000	RS3	04/01/2025	4:00 AM
RT2	04/04/2025	04/04/2025	4:00 AM	6:00 PM	Return the car with same fuel level.	F4	₱5500	RS4	04/01/2025	4:00 AM
RT2	04/05/2025	04/05/2025	4:00 AM	6:00 PM	Valid driver's license required.	F4	₱6500	RS1	04/01/2025	4:00 AM
RT2	04/05/2025	04/05/2025	4:00 AM	6:00 PM	Valid driver's license required.	F4	₱3000	RS1	04/01/2025	4:00 AM

Review ID	Booking_Status_ID	Payment_Status_ID
RN1	BS1	PS2
RN1	BS1	PS2
RN2	BS2	PS1
RN2	BS2	PS1
RN3	BS1	PS3
RN4	BS1	PS2
RN5	BS1	PS1
RN5	BS1	PS1

Location Table		Rental Type Table	
Location_ID	Location_Name	Rental_Type_ID	Rental_Type
L1	Casisang	RT1	Delivery
L2	KM4	RT2	Self Pickup
L3	San Jose		
L4	Dalwangan		
L5	Market		
L6	Valencia		

Rental Period Table		Fee Table	
Rental_Period_ID	Rental_Period	Fee_ID	Fee_Name
RT1	Day	F1	Damage Fee
RT2	Week	F2	Cleaning Fee
RT3	Month	F3	Fuel Refill Fee
		F4	Over Mileage Fee

Rental Status Table		Booking Status Table	
Rental_Status_ID	Rental_Status	Booking_Status_ID	Booking_Status
RS1	Upcoming	BS1	Approved
RS2	Completed	BS2	Rejected
RS3	In Progress		
RS4	Cancelled		

Payment Status Table		Review Table			
Payment_Status_ID	Payment_Status	Review_ID	Rating	Comment	Date_Posted
PS1	Fully Paid	RN1	1	wow	04/01/2025
PS2	Partially Paid	RN2	2	nice	04/02/2025
PS3	Unpaid	RN3	3	nice	04/03/2025
		RN4	4	amazing	04/04/2025
		RN5	5	wow	04/05/2025

Relationship:	<p>First, a customer is recorded only once in the customer table but may appear multiple times in the rentals table, as one customer can book or rent multiple cars over time. This indicates a one-to-many relationship between customers and rentals. Similarly, an owner is listed once in the owners table but can register and manage several cars, showing a one-to-many relationship between owners and cars.</p> <p>In addition, each driver appears only once in the drivers table but can be assigned to multiple rental transactions, establishing a one-to-many relationship between drivers and rentals. The admin, who manages the system, can approve, reject, or complete many bookings but is represented once in the admin table, again forming a one-to-many relationship. Cars themselves also participate in multiple rentals, meaning a single car record in the cars table can be linked to many entries in the rentals table, further reflecting a one-to-many relationship.</p> <p>Lastly, each car type (such as sedan, SUV, or van) exists once in the car type table but is associated with multiple cars that share the same type, completing another one-to-many relationship. Overall, the system heavily relies on one-to-many relationships to maintain normalized and scalable data across customer activities, vehicle listings, bookings, and administrative actions.</p>
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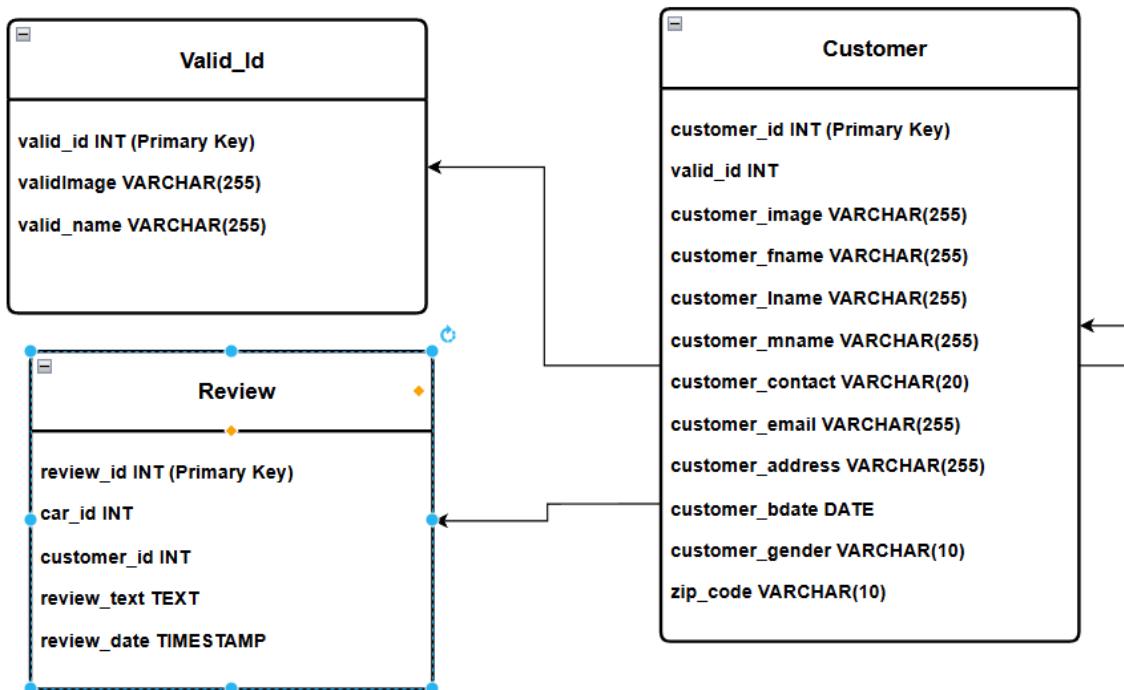
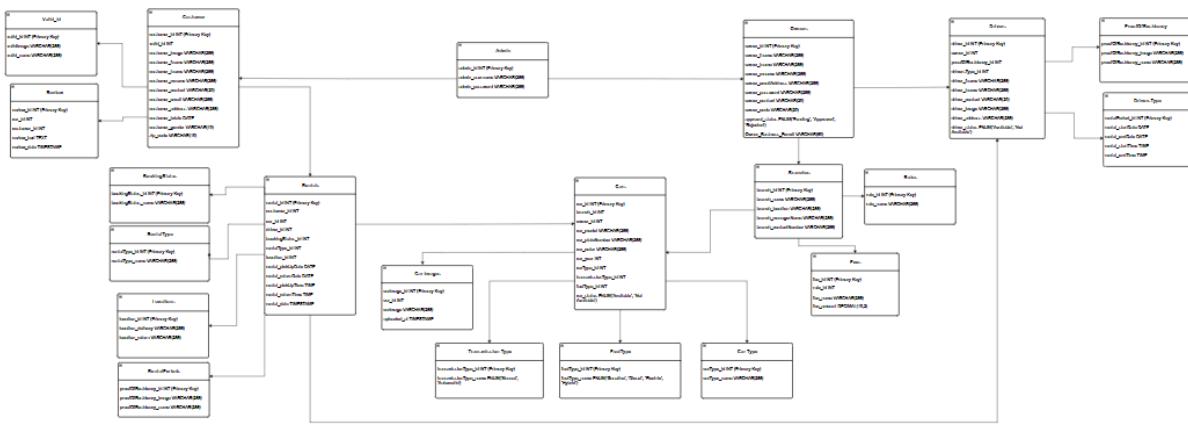
Figure 04. Third Normalization

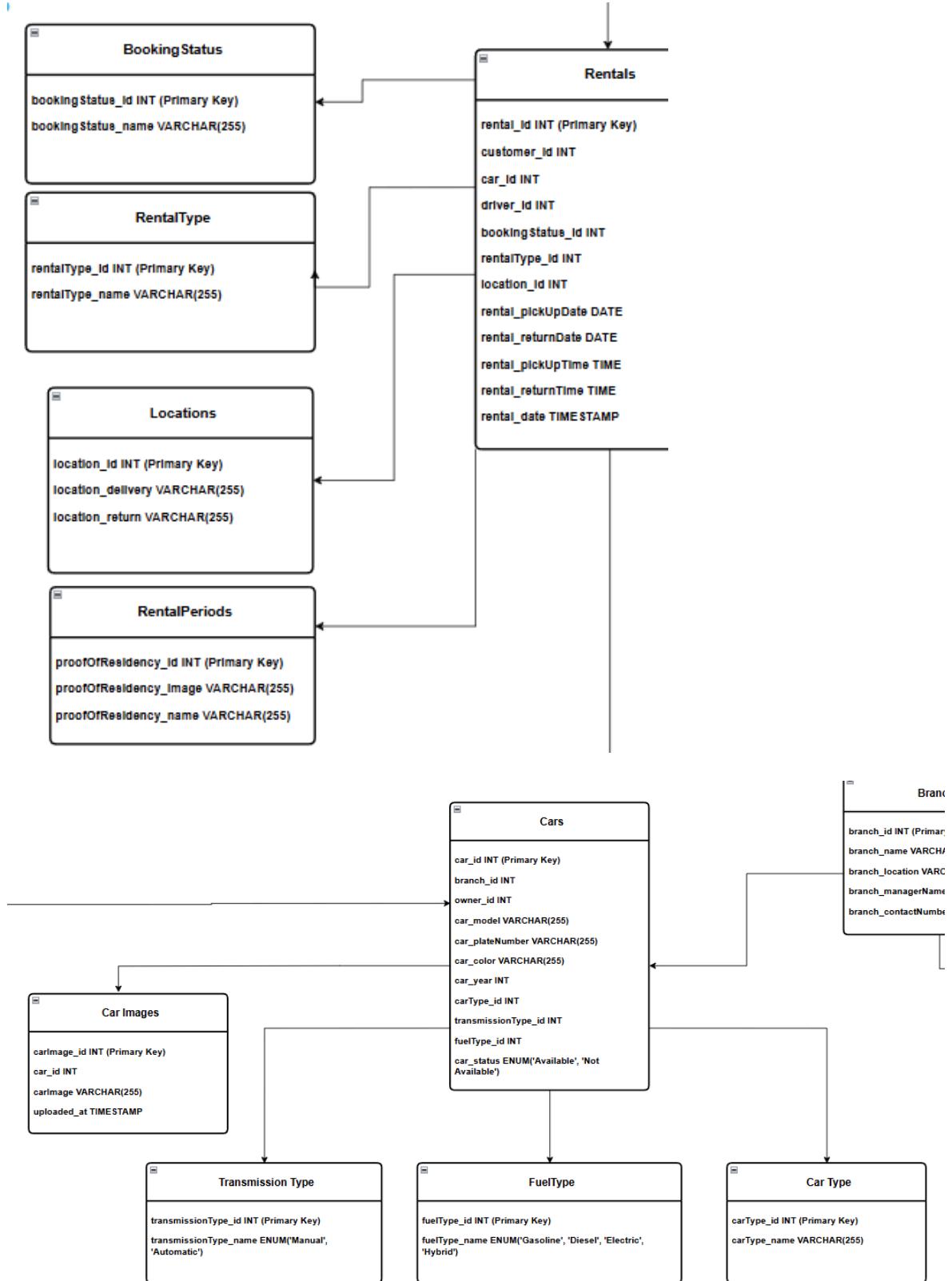
This normalized database schema structures the operations of a car rental management system by organizing data into related, non-redundant tables. It begins with core user entities such as admins, customers, and owners, each stored in dedicated tables with unique identifiers and related attributes. Customers are linked to valid ID records for verification, while owners manage multiple branches, each shop can define specific rental rules and list cars for rent.

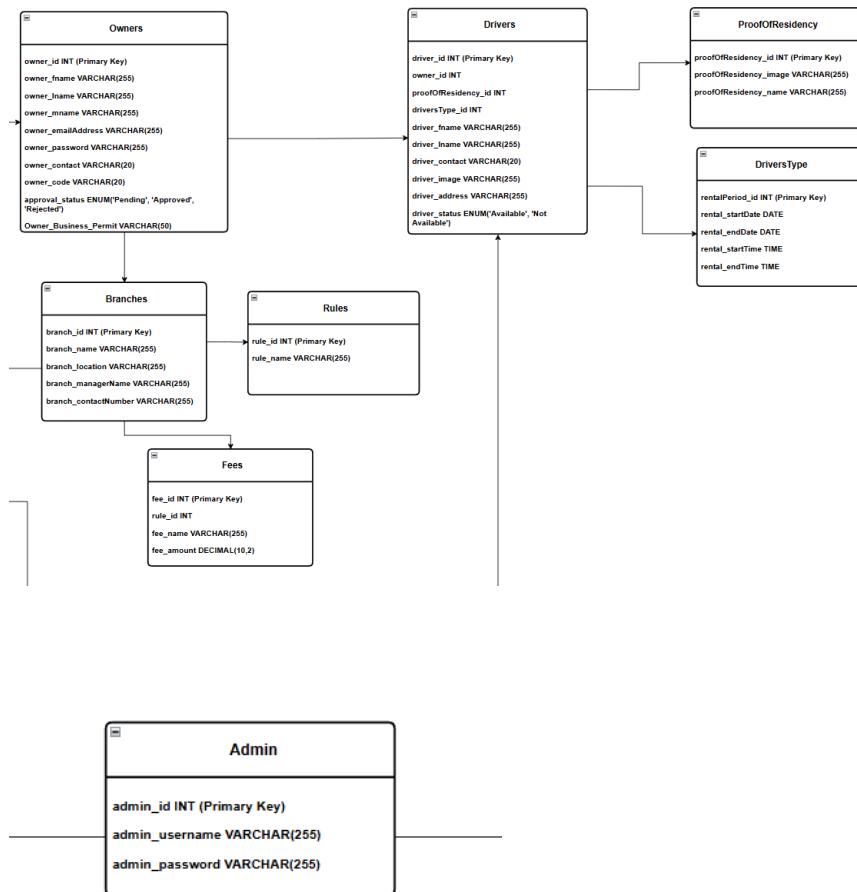
Each car is classified using separate tables for car type, fuel type, and transmission type, ensuring standardization attributes and reducing data repetition. To accommodate visual identification, cars are also associated with multiple car images. For transportation options, the system tracks both self-drive and acting driver services through a driver type reference and includes personal and legal driver information, such as licenses and proof of residency.

The rental process is managed through interconnected tables. Rental types define how the car is acquired, delivery or pickup, rental periods track when the car is started, pick up and return date , price types determine rental cost schemes. All of these feed into the central rentals table, which stores each booking, along with optional driver inclusion, fees, and current booking status. After each rental, customers have the opportunity to share their experiences by submitting feedback and ratings, contributing to the improvement of our services

Diagram 04. Database Schema







This database schema is designed for a **car rental platform** that manages administrators, customers, owners, vehicles, bookings, and driver services. The system begins with **admins**, who oversee both **customers** and **owners**. Each customer provides a **valid ID** and personal details, while owners register with a **business permit** and are responsible for managing **branches**. Every branch can define its own **rental rules** and offer a variety of **cars**, each categorized by **car type**, **transmission type**, and **fuel type**, and accompanied by multiple **car images**.

To ensure secure identity verification and flexible service options, the platform records valid **proofs of residency** and accommodates both **self-driving customers** and **acting drivers**, distinguished by a dedicated **driver type** schema. Rentals can be configured with various options, including **rental type** (delivery or self-pickup), **locations** on pick-up and return, and **rental periods** when it all started and to return. Each rental is associated with a comprehensive **rental record**, which may include **additional fees**, a **booking status** indicating availability, and an optional assigned driver. After completing a rental, customers have the opportunity to leave a **review**, providing a rating and feedback to help improve the overall service.

III. Actual SQL Snippet

Insert all screenshots of all the tables' structure in the actual database with labels and descriptions.

The screenshot shows the MySQL Workbench interface with the 'admins' table selected. The table has columns: admin_id, admin_username, and admin_password. Data rows are listed with IDs 1 through 4, corresponding to admin, chan, chan, and jimmy respectively. The interface includes standard database navigation and operation buttons like Edit, Copy, Delete, and Export.

		admin_id	admin_username	admin_password
<input type="checkbox"/>	Edit Copy Delete	1	admin	\$2y\$10\$x9fU5VNGS8fSXyfZfYd/QORmBhz5vHNwDrw36RYDha8...
<input type="checkbox"/>	Edit Copy Delete	2	chan	\$2y\$10\$DAITUACz9CbGeoRI06voX.YT3Jkd0y9Nw5xslZT0KoJ...
<input type="checkbox"/>	Edit Copy Delete	3	chan	\$2y\$10\$PmXXT0b9BldnouU4qcf4xOZnMqijJVEYMrI9S6KCcsTR...
<input type="checkbox"/>	Edit Copy Delete	4	jimmy	\$2y\$10\$cOeBOT1XhBYBK1A.iEqnDuGjWepFTNigp1Ldg9Yq6Ov...

Figure 1.1 Admin

Shows the structure of the admin table, storing login credentials and admin profile details.

The screenshot shows the MySQL Workbench interface with the 'bookingstatus' table selected. The table has columns: bookingStatus_id and bookingStatus_name. Data rows are listed with IDs 1 through 5, corresponding to Pending, Approved, Cancelled, Rejected, and Completed respectively. The interface includes standard database navigation and operation buttons like Edit, Copy, Delete, and Export.

		bookingStatus_id	bookingStatus_name
<input type="checkbox"/>	Edit Copy Delete	1	Pending
<input type="checkbox"/>	Edit Copy Delete	2	Approved
<input type="checkbox"/>	Edit Copy Delete	3	Cancelled
<input type="checkbox"/>	Edit Copy Delete	4	Rejected
<input type="checkbox"/>	Edit Copy Delete	5	Completed

Figure 1.2 Booking Status

Contains booking state values (e.g., pending, confirmed) to track reservation progress.

Showing rows 0 - 5 (6 total, Query took 0.0010 seconds.)

SELECT * FROM `branches`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

<input type="checkbox"/> Show all	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None		
Extra options								
		branch_id	owner_id	branch_image	branch_name	branch_address	branch_number	
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	1	1 branch_6825d4bf0c9414.40532990.jpg	OwnerBranch	San Jose Malaybalay City	09908778655
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	2	2 branch_6825d87d214a55.13707347.jpg	Jobert Rental	Kalasungay Malaybalay City	09112543678
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	3	3 branch_6825dd585e585.11517641.jpg	Jandill Rental	Sumpong Malaybalay City	09675473854
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	4	4 branch_6825e14a0b7111.76005285.jpg	Joseph Rental	Laguitas Malaybalay City	09997567346
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	5	5 branch_6825e5115d32b2.26996631.jpg	Jane Rental	San Jose Malaybalay City	09123657845
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	6	6 NULL	Julian Branch	NULL	NULL

Check all With selected: Edit Copy Delete Export

<input type="checkbox"/> Show all	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None
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Query results operations

Figure 1.3 Branches

Holds data about car rental branches, including names, locations, and associated owners.

Show all		Number of rows:	25	Filter rows:	Search this table	Sort by key:	None	Extra options											
								car_id	branch_id	car_description	carType_id	car_model	transmissionType_id	AC	capacity	fuelType_id	price	car_status	
<input type="checkbox"/>				1	1	Nice car for traveling.	1	Kia Soluto			1	Yes	5	1	1500.00	Available			
<input type="checkbox"/>	<input checked="" type="checkbox"/>				2	Nice car with affordable price.	1	Nissan Almera			1	Yes	4	1	1500.00	Available			
<input type="checkbox"/>				3	1	A car that is both good in style and functionality...	1	Suzuki Dzire			1	Yes	5	1	1200.00	Available			
<input type="checkbox"/>				4	1	A car that is flashy.	1	Toyota Vios			1	Yes	5	2	1300.00	Available			
<input type="checkbox"/>				5	1	Well maintain car.	1	Honda City			1	Yes	4	1	1500.00	Not Available			
<input type="checkbox"/>	<input checked="" type="checkbox"/>				6	2 A nice car for travelers.	1	MG 5			1	Yes	4	1	1500.00	Available			
<input type="checkbox"/>				7	2	A grey flashy car for travelling.	1	Mitsubishi Mirage G4			1	Yes	4	1	1400.00	Available			
<input type="checkbox"/>				8	2	Want a car that can cater your needs?	1	Toyota Corolla Altis			1	Yes	4	1	1300.00	Available			
<input type="checkbox"/>				9	2	A car that good for family vacation.	2	Honda BR-V			1	Yes	5	2	1400.00	Available			
<input type="checkbox"/>				10	2	Good for outing/traveling.	2	Isuzu mu-X			1	Yes	5	2	1500.00	Available			
<input type="checkbox"/>				11	3	A car that is good for adventure.	2	Mitsubishi Montero Sport			1	Yes	5	2	1600.00	Available			
<input type="checkbox"/>				12	3	A reliable and fuel-efficient vehicle, perfect for...	2	Audi Q3			1	Yes	5	1	1300.00	Available			
<input type="checkbox"/>				13	3	A compact and stylish car ideal for daily communit...	2	Audi Q8 e-Tron SUV			1	Yes	5	2	1500.00	Available			
<input type="checkbox"/>				14	3	Spacious SUV with advanced safety features, power...	2	Nissan Terra			1	Yes	5	1	1500.00	Available			
<input type="checkbox"/>				15	3	Family-friendly van with flexible seating, ample s...	2	Toyota Fortuner			1	Yes	5	1	1600.00	Available			
<input type="checkbox"/>				16	4	Elegant and aerodynamic, this car blends efficient...	2	Toyota Rush Promos			1	Yes	5	1	1600.00	Available			
<input type="checkbox"/>				17	4	Spacious van perfect for family trips, offering co...	3	Honda Odyssey			2	Yes	6	2	1700.00	Available			
<input type="checkbox"/>				18	5	Reliable passenger van with flexible seating and s...	3	Hyundai Grand Starex			2	Yes	6	1	1700.00	Available			
<input type="checkbox"/>				19	5	Designed for long drives, this van combines storage...	3	Toyota Hiace			2	Yes	10	1	1700.00	Not Available			

Figure 1.4 Cars

Defines the car listings, including model, brand, specs, and relational keys for types and owners.

<input type="checkbox"/> Show all	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None
Extra options						
			carType_id	carType_name		
<input type="checkbox"/>				1	Sedan	
<input type="checkbox"/>				2	SUV	
<input type="checkbox"/>				3	Van	
	<input type="checkbox"/> Check all	With selected:				
<input type="checkbox"/> Show all	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None

Figure 1.5 Car Type

Contains reference values like sedan, SUV, van, etc., to categorize cars.

<input type="checkbox"/> Profiling	[Edit inline]	[Edit]	[Explain SQL]	[Create PHP code]	[Refresh]	
			<input type="checkbox"/> Show all	Number of rows:	25	
Extra options						
			carImages_id	car_id	carImages	
<input type="checkbox"/>				9	2 12.webp	2025-05-15 21:49:36
<input type="checkbox"/>				10	2 22.webp	2025-05-15 21:49:36
<input type="checkbox"/>				11	2 32.webp	2025-05-15 21:49:36
<input type="checkbox"/>				12	2 42.webp	2025-05-15 21:49:36
<input type="checkbox"/>				13	1 1.webp	2025-05-15 21:51:00
<input type="checkbox"/>				14	1 2.webp	2025-05-15 21:51:00
<input type="checkbox"/>				15	1 3.webp	2025-05-15 21:51:00
<input type="checkbox"/>				16	1 4.webp	2025-05-15 21:51:00
<input type="checkbox"/>				17	3 13.webp	2025-05-15 21:53:50
<input type="checkbox"/>				18	3 23.webp	2025-05-15 21:53:50
<input type="checkbox"/>				19	3 33.webp	2025-05-15 21:53:50
<input type="checkbox"/>				20	3 43.webp	2025-05-15 21:53:50
<input type="checkbox"/>				21	4 14.webp	2025-05-15 21:55:29
<input type="checkbox"/>				22	4 24.webp	2025-05-15 21:55:29
<input type="checkbox"/>				23	4 44.webp	2025-05-15 21:55:29
<input type="checkbox"/>				24	4 34.webp	2025-05-15 21:55:29
<input type="checkbox"/>				25	5 15.webp	2025-05-15 21:58:02
<input type="checkbox"/>				26	5 25.webp	2025-05-15 21:58:02
<input type="checkbox"/>				27	5 35.webp	2025-05-15 21:58:02
<input type="checkbox"/>				28	5 45.webp	2025-05-15 21:58:02

Figure 1.6 Car Images

Stores image file references associated with each car listing for visual display.

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Customer

	customer_id	customer_image	customer_name	customer_username	customer_emailAddress	customer_password	customer_age	customer_gender	customer_birthdate	customer_contactNumber	customer_address	rent_code	reg_code
<input type="checkbox"/>	1	1_682090cc0ca04_1699911099.jpg	user	user	user1@gmail.com	\$2y\$10\$WVChXWYhC03cUVQHd7gM2l.PhuA4oKey... 21 Male	20 Male	Male	2004-01-01	09104340507	Casing Malibay City	NULL	8705
<input type="checkbox"/>	2	2_682090cc0ca04_WN_prospector_16_27_33_Pro.jpg	Christian Prince	Chanchan	christianprince123@gmail.com	\$2y\$10\$WVChXWYhC03cUVQHd7gM2l.PhuA4oKey... 21 Male	21 Male	Male	2004-01-01	09104340508	San Jose Malibay City	NULL	8705
<input type="checkbox"/>	3	3_682090cc0ca04_1699911099.jpg	Jimmy Pragas	Jim	jimmy12@gmail.com	\$2y\$10\$WVChXWYhC03cUVQHd7gM2l.PhuA4oKey... 21 Male	21 Male	Male	2004-01-01	09104340509	Dewangan Malibay City	NULL	8705
<input type="checkbox"/>	4	4_682090cc0ca04_1699911099.jpg	Jho Louise	jho	jho12@gmail.com	\$2y\$10\$WVChXWYhC03cUVQHd7gM2l.PhuA4oKey... 22 Male	22 Male	Male	2004-01-01	09104340510	Dewangan Malibay City	NULL	8705
<input type="checkbox"/>	5	5_682090cc0ca04_1699911099.jpg	Natalie Amor	nat	natalie12@gmail.com	\$2y\$10\$WVChXWYhC03cUVQHd7gM2l.PhuA4oKey... 25 Female	25 Female	Female	2004-01-01	09104340511	Casing Malibay City	NULL	8705
<input type="checkbox"/>	6	6_682090cc0ca04_1699911099.jpg	Jimmy Pragas	jimjim	jimmy12345@gmail.com	\$2y\$10\$WVChXWYhC03cUVQHd7gM2l.PhuA4oKey... NULL NULL	NULL NULL	NULL	NULL	09104340512	Casing Malibay City	NULL	8705
<input type="checkbox"/>	7	7_682090cc0ca04_1699911099.jpg											

Check all With selected:

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Figure 1.7 Customer

Structures the customer accounts, including identification and contact information.

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Drivers

	drivers_id	owner_id	customer_id	driver_name	drivers_age	drivertlicense_number	drivertlicense_image	drivers_contactNumber	proofOfResidency_id	driverType_id	drivers_price	drivers_picture
<input type="checkbox"/>	2	1	NULL	Jhon Loyd	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825d107afba6_driver1.jpg
<input type="checkbox"/>	3	1	NULL	Joey	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825d13de56c0_driver2.jpg
<input type="checkbox"/>	4	1	NULL	Stephen	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825d1508481_driver3.jpg
<input type="checkbox"/>	5	1	NULL	Mark	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825d1a2b28a6_driver4.jpg
<input type="checkbox"/>	6	1	NULL	Florence	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825d1a49a294_driver5.jpg
<input type="checkbox"/>	7	2	NULL	James	NULL	NULL	NULL	NULL	NULL	1	999.00	8825d9aae0820_driver1.jpg
<input type="checkbox"/>	8	2	NULL	Bryan	NULL	NULL	NULL	NULL	NULL	1	999.00	8825dc0561ea_driver2.jpg
<input type="checkbox"/>	9	2	NULL	Gordon	NULL	NULL	NULL	NULL	NULL	1	999.00	8825d9e4040ad_driver3.jpg
<input type="checkbox"/>	10	2	NULL	Juan	NULL	NULL	NULL	NULL	NULL	1	999.00	8825da0a3a7eb_driver4.jpg
<input type="checkbox"/>	11	2	NULL	Kyle	NULL	NULL	NULL	NULL	NULL	1	999.00	8825d3118ef1_driver5.jpg
<input type="checkbox"/>	12	3	NULL	Jimboy	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825ded0d38d1_driver1.jpg
<input type="checkbox"/>	13	3	NULL	Cris	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825ded27959_2_driver2.jpg
<input type="checkbox"/>	14	3	NULL	Fretz	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825dee558804_3_driver3.jpg
<input type="checkbox"/>	15	3	NULL	Mike	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825ded2820e4_4_driver4.jpg
<input type="checkbox"/>	16	3	NULL	Mico	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825dd094c10_5_driver5.jpg
<input type="checkbox"/>	17	4	NULL	Ruel	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825e0cd7ab_6_driver1.jpg
<input type="checkbox"/>	18	4	NULL	Louise	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825e2d8000d6_7_driver2.jpg
<input type="checkbox"/>	19	4	NULL	Lonei	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825e2ea00025_8_driver3.jpg
<input type="checkbox"/>	20	4	NULL	Belly	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825e30d148b_9_driver4.jpg
<input type="checkbox"/>	21	4	NULL	Nel	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825e3a1a328_10_driver5.jpg
<input type="checkbox"/>	22	5	NULL	Jomar	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825e0f5d778_driver1.jpg
<input type="checkbox"/>	23	5	NULL	Leo	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825e6000696_driver2.jpg
<input type="checkbox"/>	24	5	NULL	Randy	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825e601d0981_driver3.jpg
<input type="checkbox"/>	25	5	NULL	Carlos	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825e6c09007f_driver4.jpg
<input type="checkbox"/>	26	5	NULL	Michael	NULL	NULL	NULL	NULL	NULL	1	1000.00	8825e6fa91f02_driver5.jpg

Check all With selected:

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Figure 1.8 Drivers

Details records of available acting drivers, including license information and assigned rentals.

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Drivers Type

	driversType_id	driversType_name
<input type="checkbox"/>	1	Acting Driver
<input type="checkbox"/>	2	Self-Drive

Check all With selected:

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Figure 1.9 Drivers Type

Specifies whether a driver is self-drive or a hired/assigned driver.

	<input type="checkbox"/>	fee_id	fee_name	fee_amount	branch_id
	<input type="checkbox"/>	1	Delivery Fee	100.00	1
	<input type="checkbox"/>	2	Damage Fee	100.00	1
	<input type="checkbox"/>	3	Late Return Fee	100.00	1
	<input type="checkbox"/>	4	Cleaning Fee	100.00	1
	<input type="checkbox"/>	5	Fuel Charge	100.00	1
	<input type="checkbox"/>	6	Late fee	100.00	2
	<input type="checkbox"/>	7	Delivery Fee	100.00	2
	<input type="checkbox"/>	8	Insurance Fee	100.00	2
	<input type="checkbox"/>	9	Fuel Charges	100.00	2
	<input type="checkbox"/>	10	Mileage Fee	100.00	2
	<input type="checkbox"/>	11	Late Return Fee	100.00	3
	<input type="checkbox"/>	12	Delivery Fee	100.00	3
	<input type="checkbox"/>	13	Smoking Fee	100.00	3
	<input type="checkbox"/>	14	Damage Fee	100.00	3
	<input type="checkbox"/>	15	Refueling Fee	100.00	3
	<input type="checkbox"/>	16	Young Driver Fee	100.00	4
	<input type="checkbox"/>	17	Delivery Fee	100.00	4
	<input type="checkbox"/>	18	Cleaning Fee	100.00	4
	<input type="checkbox"/>	19	Mileage Fee	100.00	4
	<input type="checkbox"/>	20	Smoking Fee	100.00	4
	<input type="checkbox"/>	21	Late Return Fee	100.00	5
	<input type="checkbox"/>	22	Delivery Fee	100.00	5
	<input type="checkbox"/>	23	Damage Fee	100.00	5
	<input type="checkbox"/>	24	Extra Mileage Fee	100.00	5
	<input type="checkbox"/>	25	Smoking Fee	100.00	5

Figure 1.10 Fees

Manages pricing and additional charges for specific car rentals and services.

	<input type="checkbox"/>	fuelType_id	fuelType_name
	<input type="checkbox"/>	1	Diesel
	<input type="checkbox"/>	2	Gasoline

Figure 1.11 Fuel Type

Lists car fuel categories (e.g., gasoline, diesel, electric) used in vehicle classification.

Extra options			
	location_id	location_delivery	location_return
<input type="checkbox"/>	1	San Jose Malaybalay City	Casisang Malaybalay City
<input type="checkbox"/>	2	Kalasungay Malaybalay City	Kalasungay Malaybalay City
<input type="checkbox"/>	3	Sumpong Malaybalay City	Sumpong Malaybalay City
<input type="checkbox"/>	4	Laguitas Malaybalay City	Laguitas Malaybalay City
<input type="checkbox"/>	5	San Jose Malaybalay City	San Jose Malaybalay City

↑ Check all With selected:

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Figure 1.12 Locations

Stores pick-up and return locations available for rentals.

Extra options									
	owner_id	owner_name	owner_username	owner_emailAddress	owner_password	owner_businessPermit	reset_code	approval_status	
<input type="checkbox"/>	1	Owner Name owner	owner	user81@gmail.com	\$2y\$10\$Gh15mvuR8Y8mHFCzJU8LN02LcvPhNMmShAEjLcw/7...	202412345	NULL	approved	
<input type="checkbox"/>	2	Jobert Cruz	Jobert	undodos2354@gmail.com	\$2y\$10\$dbdflspZ55exlcYM1gLEFOwVxKa32TnaZpXnjP...	12345	NULL	approved	
<input type="checkbox"/>	3	Jandyl valdez	janjan	chanchan83@gmail.com	\$2y\$10\$pe5A9wnFCCrAx.z6rtRNuHkPZH61K9TOa7/5alib...	09876	NULL	approved	
<input type="checkbox"/>	4	Joseph Denver	seph	joseph12@gmail.com	\$2y\$10\$zXjFTMTSpjtLPEIuNe4056Epxr4B/j7qa\$2F3u...	56743	NULL	approved	
<input type="checkbox"/>	5	Jane Lastimosa	jane	jane66@gmail.com	\$2y\$10\$UR/4sC8pB71UA2mCc3EIXOmZwT90GUhrjWW8Xm9tGQ...	90087	NULL	approved	
<input type="checkbox"/>	6	Julian Reyes	Juls	julian19@gmail.com	\$2y\$10\$XHzUfCERKLQGH12JZvOOBB2jqeMvh0Uo/9kvCDKM...	98675	NULL	rejected	

↑ Check all With selected:

Figure 1.13 Owners

Table containing rental shop owner data, including business permits and

login info.

Extra options				
	proofOfResidency_id	proofOfResidency_image	proofOfResidency_name	
<input type="checkbox"/>	1	./uploads/waterb.png	Water Bill	
<input type="checkbox"/>	2	./uploads/waterb.png	Water Bill	
<input type="checkbox"/>	3	./uploads/waterb.png	Water Bill	

↑ Check all With selected:

Figure 1.14 ProofOfResidency

Holds verification documents submitted by customers or drivers for

validation.

Extra options						
	rentalPeriod_id	start_date	return_date	start_time	return_time	
<input type="checkbox"/>	1	2025-05-15	2025-05-16	22:50:00	22:50:00	
<input type="checkbox"/>	2	2025-05-15	2025-05-16	23:01:00	23:01:00	
<input type="checkbox"/>	3	2025-05-15	2025-05-17	23:16:00	23:18:00	
<input type="checkbox"/>	4	2025-05-15	2025-05-23	23:21:00	23:21:00	
<input type="checkbox"/>	5	2025-05-15	2025-05-29	23:24:00	23:24:00	
<input type="checkbox"/>	6	2025-05-16	2025-05-17	09:08:00	09:08:00	
<input type="checkbox"/>	7	2025-05-16	2025-05-17	09:30:00	09:30:00	
<input type="checkbox"/>	8	2025-05-16	2025-05-17	10:01:00	10:01:00	

Figure 1.15 RentalPeriods

Tracks the rental time span, including start and return dates.

	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	rental_id	customer_id	car_id	drivers_id	rentalType_id	locations_id	rentalPeriod_id	estimated_total	booking_date	booking_time	bookingStatus_id	number_person	reviewed
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	2	2	5	22	1	1	1	2700.00	2025-05-15	22:58:50	5	5	1
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	3	1	9	28	2	2	2	1500.00	2025-05-15	23:08:57	5	6	1
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	4	3	13	12	2	3	3	2700.00	2025-05-15	23:18:41	5	6	1
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	5	4	16	29	2	4	4	2400.00	2025-05-15	23:23:05	5	6	1
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	6	5	18	22	1	1	5	4200.00	2025-05-15	23:25:42	5	7	1
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	7	5	10	22	2	5	6	2800.00	2025-05-16	09:09:36	1	7	0
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	8	5	1	2	2	5	7	2800.00	2025-05-16	09:31:19	5	7	0
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	9	5	5	2	2	5	8	2800.00	2025-05-16	10:02:18	3	7	0

Figure 1.16 Rentals

Central table recording all rental transactions, car IDs, customer IDs, rental dates, etc.

	<input type="checkbox"/> Show all	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None
Extra options							
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	1	Delivery		
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	2	Self-Pickup		
Up <input type="checkbox"/> Check all With selected: <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete <input type="checkbox"/> Export							

Figure 1.17 Rental Type

Defines whether the rental is for self-pickup or delivery service.

	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	review_id	rental_id	customer_id	rating	review_text	review_date
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	1	2	2	4	Nice car, exceed my expectations.	2025-05-16 02:54:44
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	2	3	1	4	Nice car so comfy for traveling.	2025-05-16 02:57:16
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	3	4	3	5	It so smooth to drive.	2025-05-16 03:00:14
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	4	5	4	5	Great car for travelling, nice.	2025-05-16 03:02:52
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	5	6	5	5	Super nice car, it is suitable for family outing.	2025-05-16 03:04:33

Figure 1.18 Review

Contains customer feedback and ratings after completing a rental.

Extra options

	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	rule_id	branch_id	rule_name
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	2	1	Valid Driver's License Required
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	3	1	Age Requirement
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	4	1	No Smoking or Pets Allowed
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	5	1	Fuel Policy Must Be Followed
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	6	1	Return the Vehicle on Time
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	7	2	Insurance Coverage
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	8	2	Mileage Limits
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	9	2	Prohibited Uses
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	10	2	Deposit and Payment
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	11	2	Damage Reporting
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12	3	Valid License Required
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	13	3	No Smoking in the Vehicle
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	14	3	Return with Same Fuel Level
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	15	3	Only Registered Drivers May Operate
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	16	3	Report Damages Immediately
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	17	4	Valid License Required
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	18	4	Only Registered Drivers May Operate
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	19	4	Report Damages Immediately
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	20	4	Deposit and Payment
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	21	4	Return with Same Fuel Level
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	22	5	No Smoking in the Vehicle
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	23	5	Return with Same Fuel Level
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	24	5	Only Registered Drivers May Operate
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	25	5	Valid License Required
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	26	5	Report Damages Immediately

Figure 1.19 Rules

Stores rental rules and policies unique to each branch.

Extra options

	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	transmissionType_id	transmissionType_name
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1	Automatic
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	2	Manual

Check all With selected:

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Figure 1.20 Transmission Type

Categorizes vehicles based on gear systems, such as manual or automatic.

IV. Actual Website Snippet

Insert all screenshots of the system **with labels and descriptions**.

The screenshot shows the homepage of JJJC Car Rental. At the top, there is a navigation bar with links for 'Home', 'About Us', and 'Logout'. A large yellow Ford Focus ST is prominently displayed. Below it, a section titled 'Your Ultimate Travel Companion, Rent Now' features a brief description: 'We Offer A Wide Range Of Rental Cars To Suit Your Needs; Whether You're Planning A Weekend Getaway, A Business Trip, Or Just Need A Reliable Vehicle For Daily Commutes.' A 'Rent Car' button is visible. The main content area is titled 'Latest Inventory' and contains four car models: Kia Soluto, Nissan Almera, Suzuki Dzire, and Toyota Vios. Each card shows a thumbnail, name, rating (5 stars), seats (5 Seats), fuel type (Diesel or Gasoline), price (₱1,500.00/day or ₱1,200.00/day), and a 'Rent Now' button. A 'See All' button is located below these cards. To the right, a large yellow Mercedes-Benz SUV is shown. The 'Why Choose Us' section lists five benefits with icons: 'Affordable Rates with No Hidden Fees' (yellow square icon), 'Easy Online Booking & Instant Confirmation' (blue square icon), 'Wide Selection of Vehicles' (orange square icon), 'Verified Owners & Secure Transactions' (green square icon), and 'Great Customer Support' (purple square icon). A 'Ready To Get Started?' section at the bottom left encourages users to book their ride. The footer contains social media links for Facebook, X, Instagram, and TikTok, along with contact information: 'Borinoc_ajbdakasid.com' and '0909090909'. The footer also includes the company name 'JJJC Car Rental' and the tagline 'Your Ultimate Travel Companion'.

Figure 1.1 Landing page

The homepage where users are welcomed and given options to log in or browse the system.

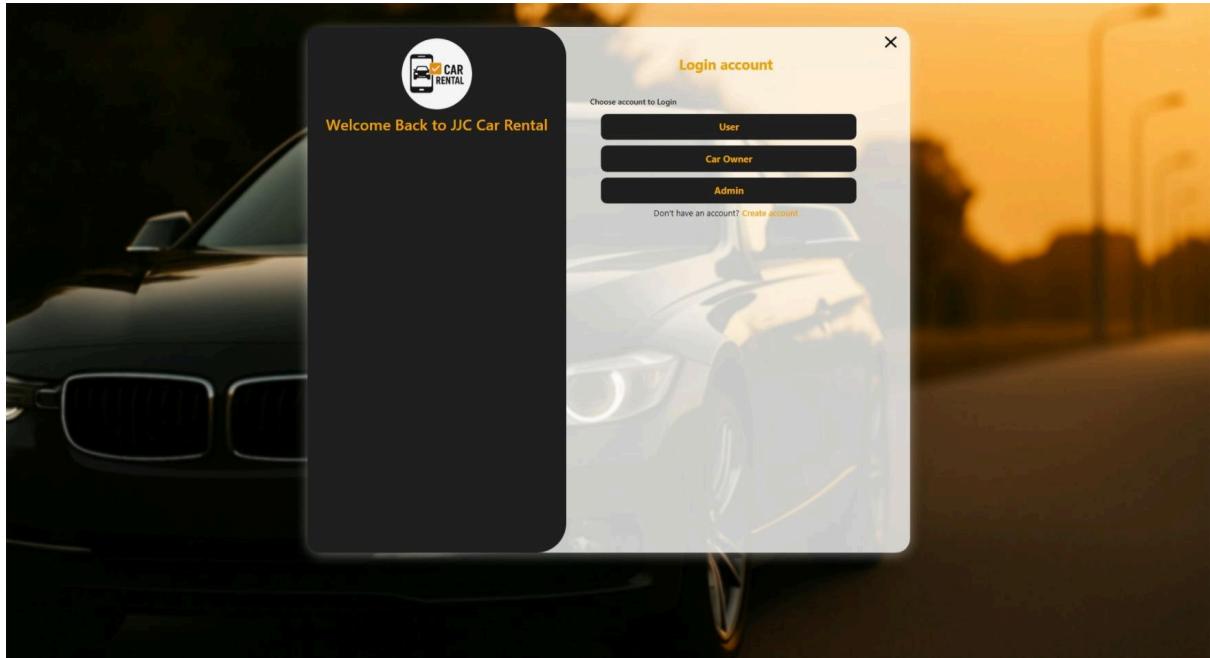


Figure 1.2 Login Page

Interface for users to securely log in using their credentials.

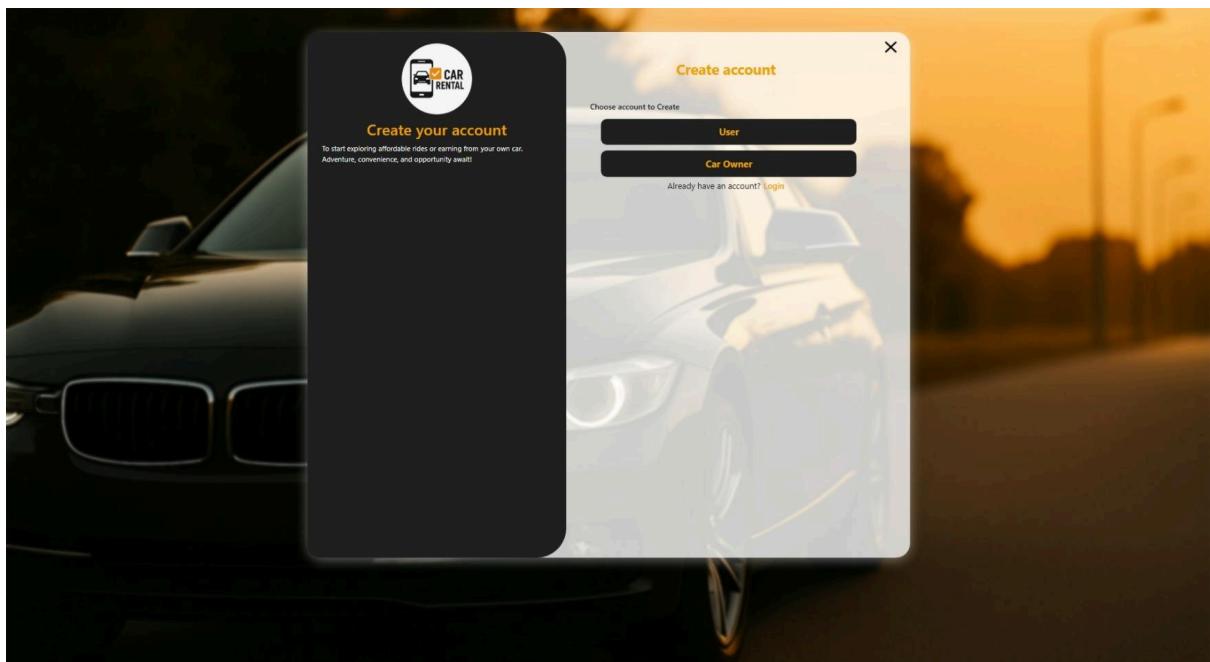


Figure 1.3 Create Accounts

Registration page where users can create an account as a customer, owner, or admin.

Rental Shop Name	Owner Name	Email	Permit ID	Action
Julian Reyes	Julian Reyes	julian19@gmail.com	98675	<button>Approve</button> <button>Reject</button>

Figure 1.4 Admin Dashboard

This is the **Admin Dashboard** of the car rental platform, designed to manage and verify rental shop owners.

OwnerBranch
San Jose Malaybalay City
09908778655

Number of Cars
5

Total Rentals Completed
1

Car Rules
[View Rules](#)

Car Fees
[View fees](#)

Drivers

Driver	Price	Trips Completed
Jhon Loyd	1000.00	0
Joey	1000.00	0

Figure 1.5 Owner Profile

Displays the rental owner's personal and business details.

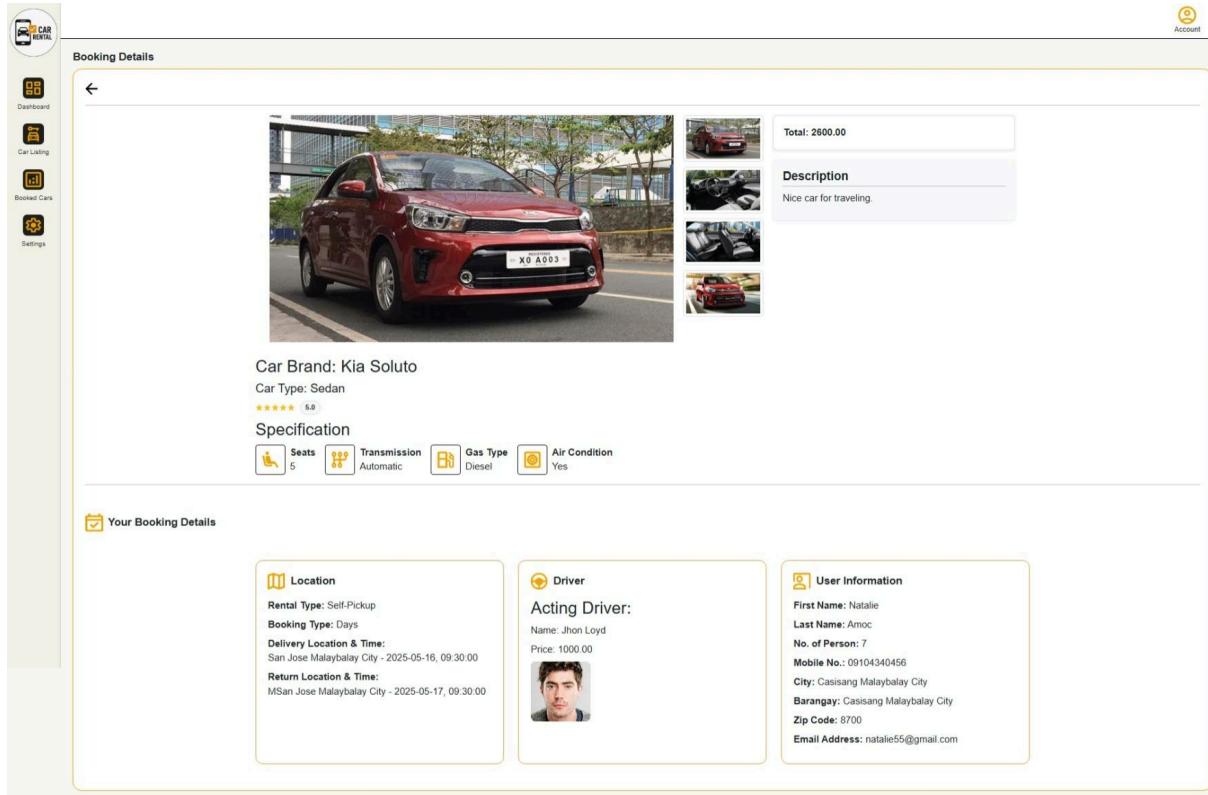


Figure 1.6 Owner Booking Details

Allows owners to view customer booking requests and rental history.

Booked Car						
All Bookings		Pending Approval	Approved	Rejected	Completed	Canceled
Car Name	Rental Type	Renter	Booked Date	Total	Status	Action
Kia Soluto	Self-Pickup	Natalie Amoc	2025-05-16, 09:31:19	2600.00	Completed	<button>View</button>
Honda City	Delivery	Christian Principe	2025-05-15, 22:58:50	2700.00	Completed	<button>View</button>

Figure 1.7 Bookings

Lists all active and completed bookings managed by the owner.

Add New Car

Add New Car

Car Name
Enter Car Name

Car Type
Enter Car Type

Upload Car Image

Main Image
Choose File | No file chosen

Side Image
Choose File | No file chosen

Choose File | No file chosen

Choose File | No file chosen

Car Description
Enter Car Description

Car Price Daily
Enter Car Price

No. of Seats
Enter Number of Seats

Transmission
Choose Type Of Transmission

Gas Type
Choose Gas Type

Air Condition
Yes/No

Add Car

Figure 1.8 Owner Add New Car

Interface for adding a new vehicle to the rental inventory.

Update Car Details

Update Car Details

Car Name
Enter Car Name

Car Type
Enter Car Type

Upload Car Image

Main Image
Choose File | No file chosen

Side Images
Choose File | No file chosen

Choose File | No file chosen

Choose File | No file chosen

Car Description
Enter Car Description

Car Price Daily
Enter Car Price

No. of Seats
Enter Number of Seats

Transmission
Choose Type Of Transmission

Gas Type
Choose Gas Type

Air Condition
Yes/No

Update

Figure 1.9 Owner Updates cars

Allows editing of existing car listings and details.

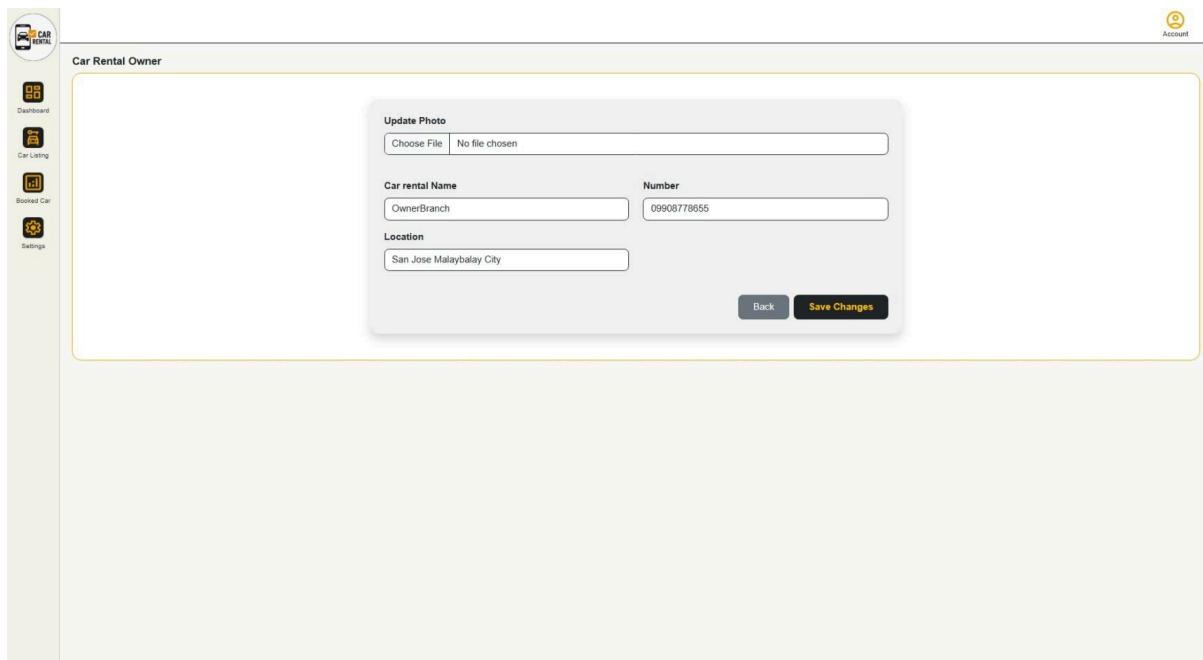


Figure 1.10 Owner Edit Section

Dedicated page for modifying owner-specific account or branch settings.



Figure 1.11 Owner Rules

Section to set branch-specific rental rules and policies.

The screenshot shows the 'Driver' section of the application. On the left is a vertical sidebar with icons for Dashboard, Car Listing, Booked Car, and Settings. The main area has a header 'Driver' with a back arrow and an 'Add Driver' button. A table lists five drivers: Jhon Loyd, Joey, Stephen, Mark, and Florence, each with a small profile picture, trips completed (0), price (1000.00), and 'Edit' and 'Delete' buttons.

Figure 1.13 Owner Acting Drivers

Interface to manage drivers assigned to bookings that require one.

The screenshot shows the 'OwnerBranch - Fees' section. The sidebar includes icons for Dashboard, Car Listing, Booked Car, and Settings. The main area has a header 'OwnerBranch - Fees' with a back arrow and an 'Add Fee' button. A table lists five fees: Delivery Fee (₱100.00), Damage Fee (₱100.00), Late Return Fee (₱100.00), Cleaning Fee (₱100.00), and Fuel Charge (₱100.00). Each row has edit and delete icons.

Figure 1.14 Owner Fees

Enables owners to define rental fees and pricing structures.

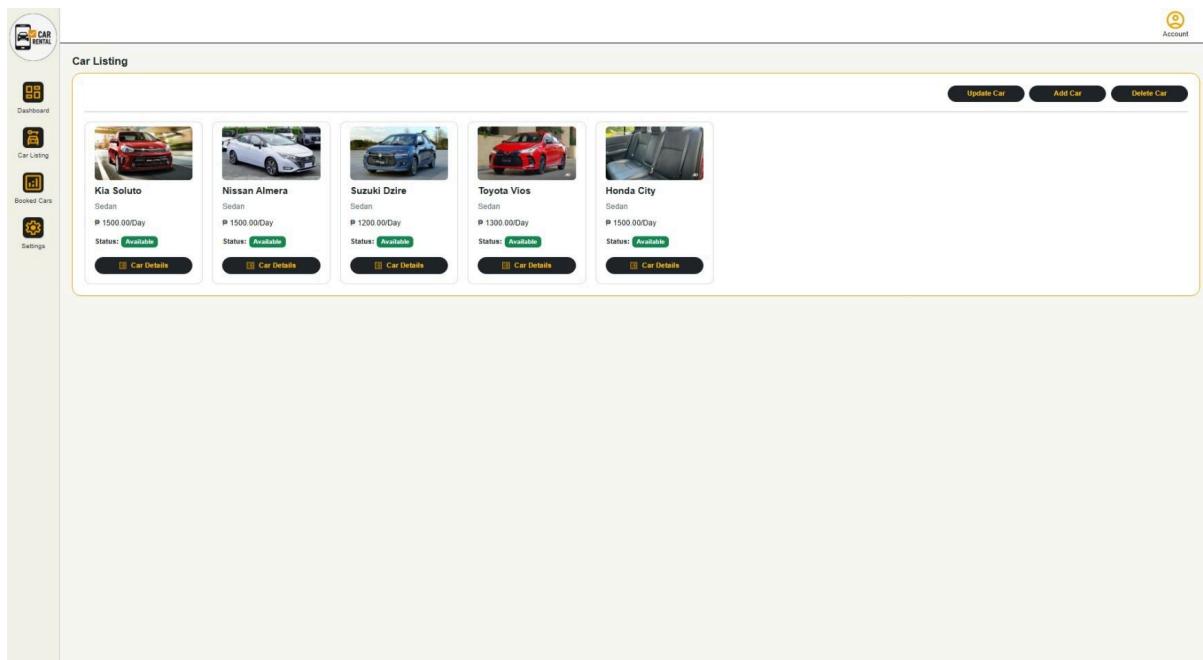


Figure 1.15 Owner Car Listings

Displays all vehicles currently listed under the owner's account.

Booked Details Report							
Branch: OwnerBranch							
#	Car Model	Rental Type	Customer	Booking Date	Booking Time	Total	Booking Status
1	Honda City	Delivery	Christian Principe	2025-05-15	22:58:50	₱2,700.00	Completed
2	Kia Soluto	Self-Pickup	Natalie Amoc	2025-05-16	09:31:19	₱2,600.00	Completed
Total Sales:							₱5,300.00

Owner / Manager Signature

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Figure 1.16 Owner Reports

Provides analytical reports on bookings, earnings, and fleet performance.

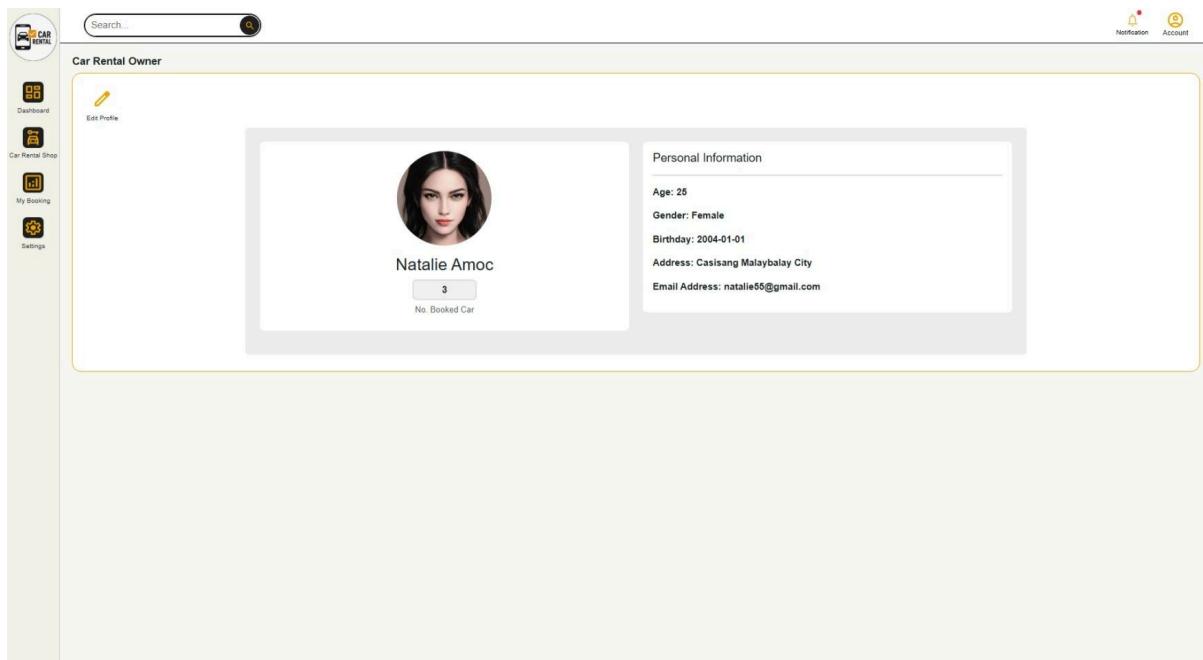


Figure 2.1 Customer Profile

Displays customer information including ID and personal details.

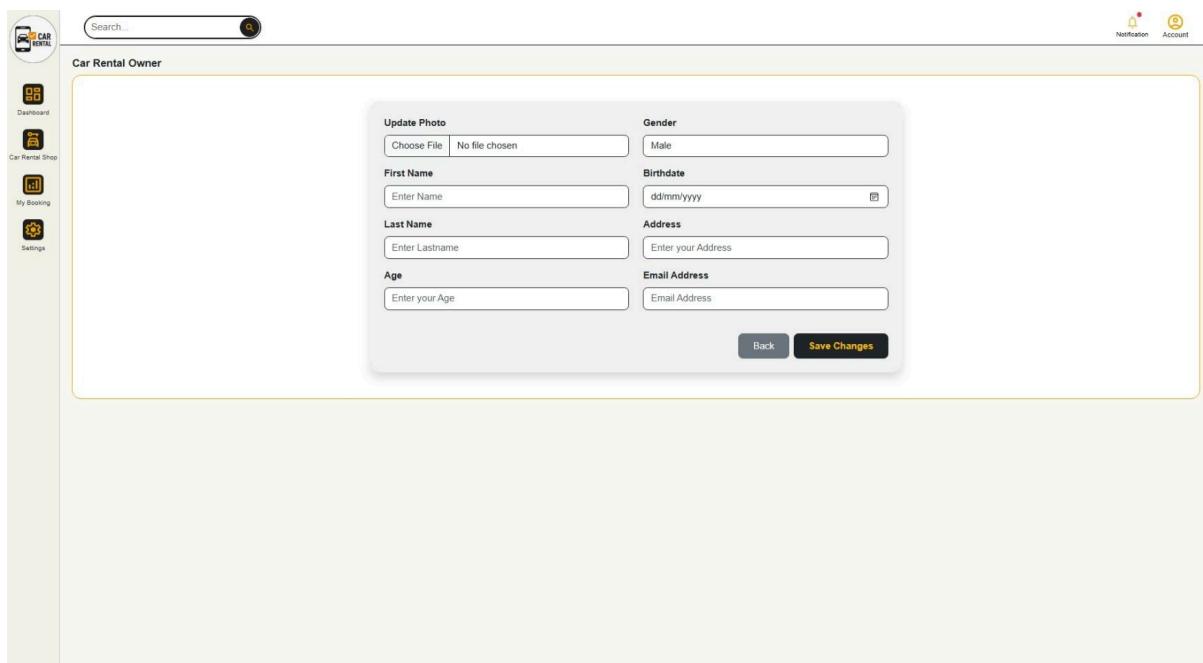


Figure 2.2 Customer Edit Profile

Allows customers to update their profile information.

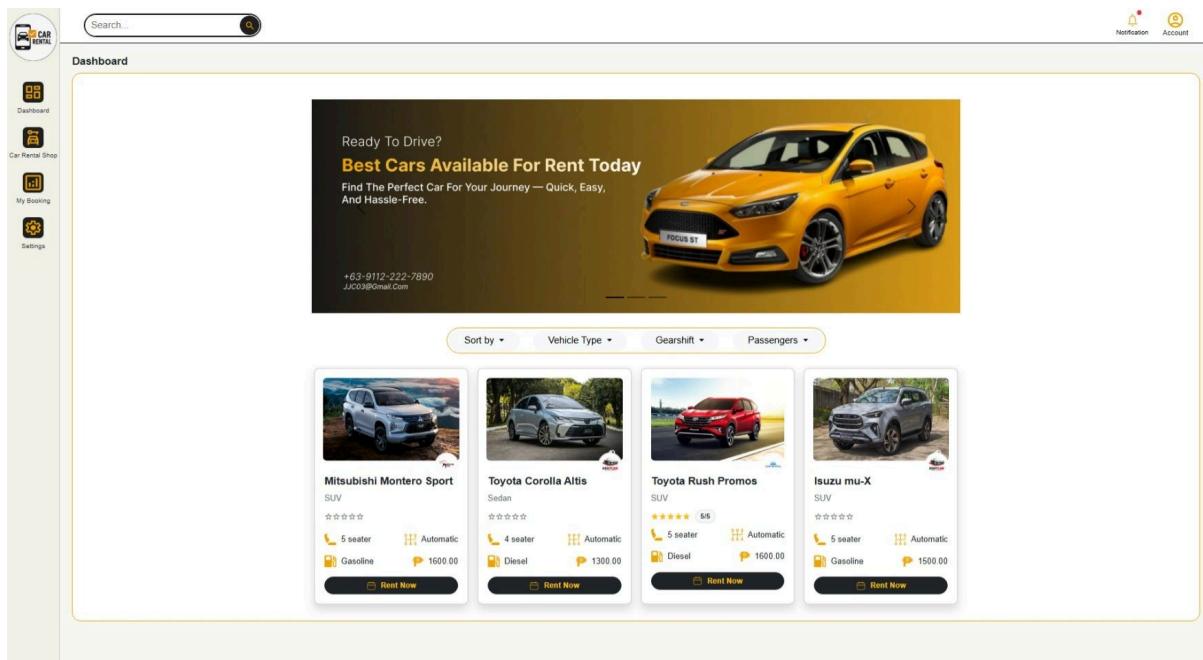


Figure 2.3 Customer Dashboard

Main interface for customers to view and manage their bookings.

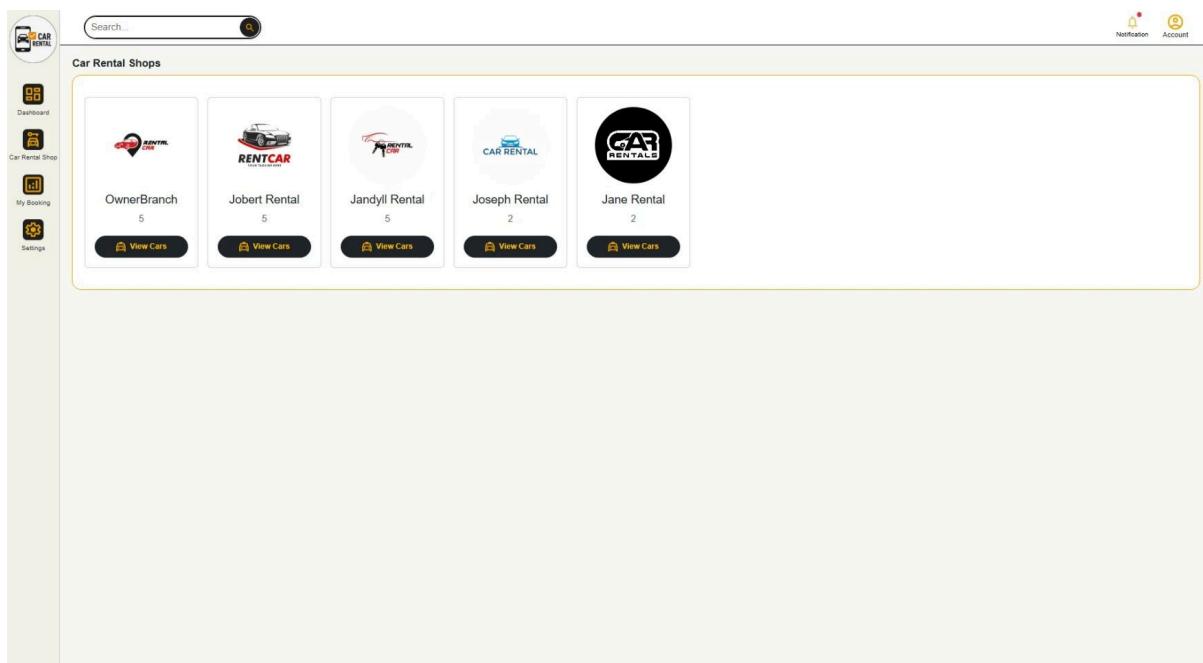


Figure 2.4 Customer View Branches

Shows the list of car rental branches available for booking.

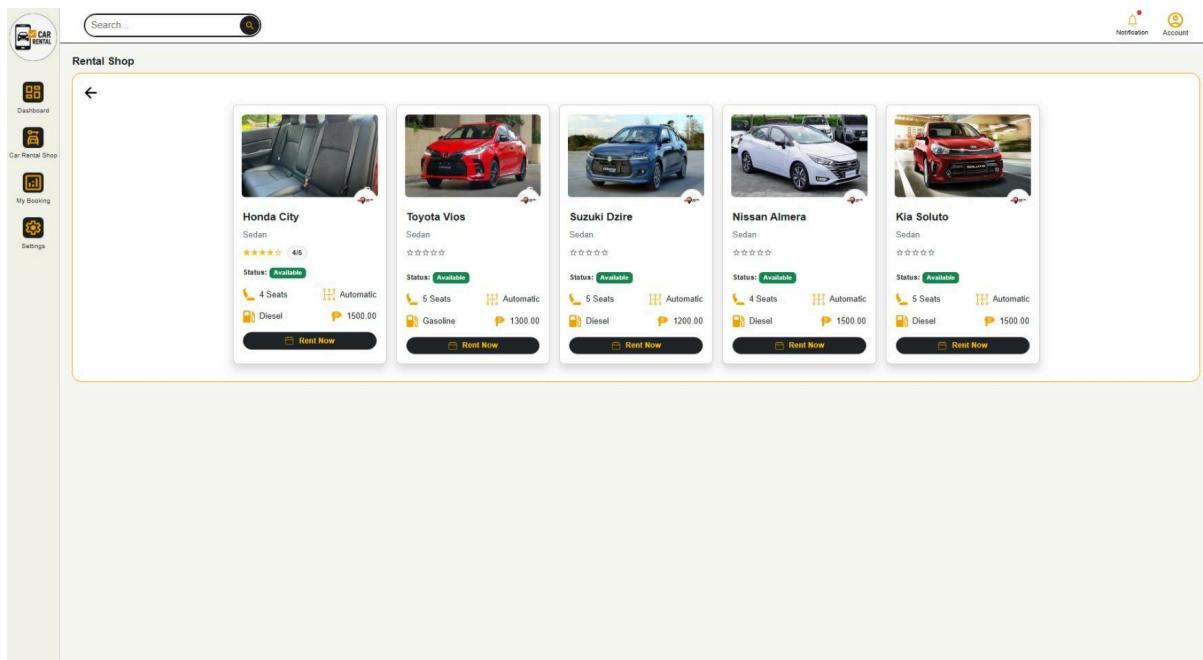


Figure 2.5 Customer Car Listings

Displays available vehicles under selected branches.

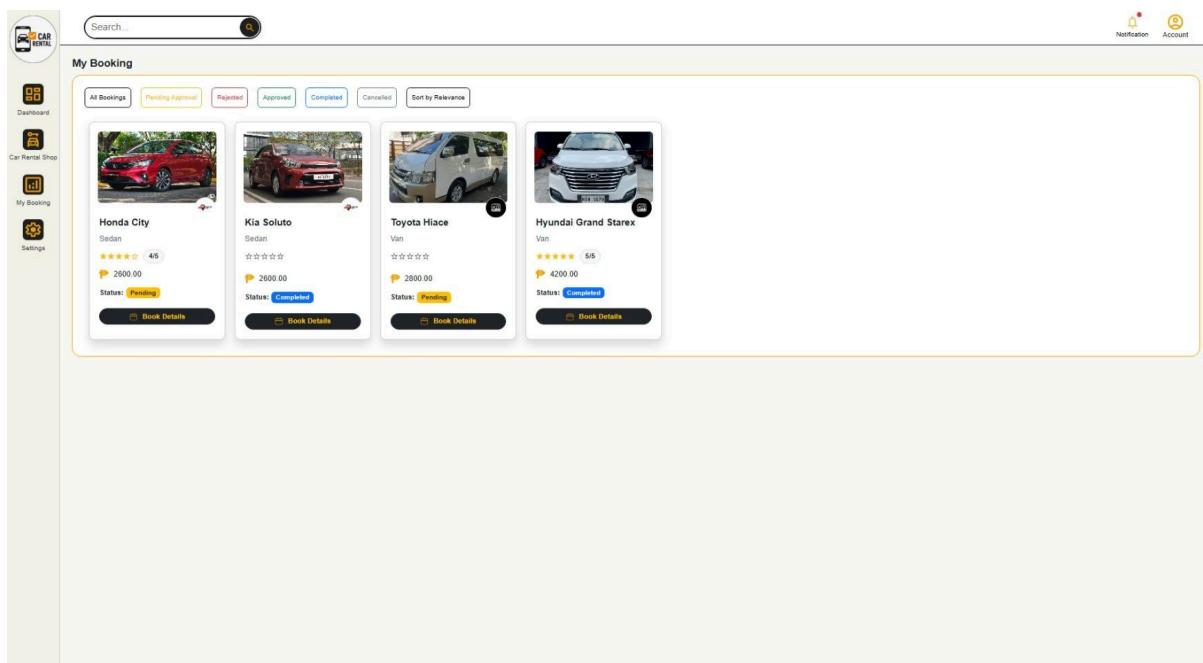


Figure 2.6 Customer Bookings

Lists all active, pending, and completed bookings made by the customer.

Car Details

Car Brand: Honda City
Car Type: Sedan
★★★★★ / 45

Specification

- Seats: 4
- Transmission: Automatic
- Gas Type: Diesel
- Air Condition: Yes

Reviews

Christian Principe
Nice car, exceed my expectations.
★★★★★
May 10, 2025

Figure 2.7 Customer Car Details

Shows complete specifications and pricing for a selected vehicle.

Booking Details

Total: ₱2500.00

Car Brand: Honda City
Car Type: Sedan
★★★★★ / 45

Specification

- Seats: 4
- Transmission: Automatic
- Gas Type: Diesel
- Air Condition: Yes

Your Booking Details

Location Rental Type: Self-Pickup Booking Type: Days Delivery Location & Time: San Jose Malaybalay City - 2025-05-16, 10:01:00 Return Location & Time: San Jose Malaybalay City - 2025-05-17, 10:01:00	Driver Acting Driver: Name: Jhon Loyd Price: 1000.00 	User Information First Name: Natalie Last Name: Amoc No. of Person: 7 Mobile No.: 09104340456 City: Casiang Malaybalay City Barangay: Casiang Malaybalay City Zip Code: 8700 Email Address: natalie55@gmail.com
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Buttons: Return, Cancel Booking

Figure 2.8 Customer Booking Details

Displays details and status of a specific booking.

The screenshot shows the 'Car Rental Owner' interface. At the top, there's a search bar and navigation icons for 'Notification' and 'Account'. On the left, a sidebar includes 'Dashboard', 'Car Rent Shop', 'My Booking', and 'Settings'. The main area is titled 'Car Rental Owner' and has a sub-section 'Reserve your car' with the instruction 'Complete the following steps'. It shows five steps: Step 1 (Location), Step 2 (Driver), Step 3 (User Information), Step 4 (Rules), and Step 5 (Book Details). A total amount of 'P1500.00' is displayed. Below these are two sections: 'Rental Type' (Delivery or Self Pickup) and 'Price and Time' (Start Date, Start Time, Return Date, Return Time). At the bottom are 'Return' and 'Next' buttons.

Figure 2.9 Customer 1st Process for Bookings

Initial step where the customer chooses a car and rental type.

This screenshot continues the booking process. The main section is titled 'Driver Details' with the sub-section 'Choose Driver' showing 'Self Drive' selected. Below this are fields for 'First Name' (Enter First Name), 'Last Name' (Enter Last Name), 'Mobile Number' (Enter Mobile Number), and 'Prof of Residency' (Enter Proof of Residency). There are also sections for 'Driver Age' (Enter Drive Age), 'Drive License Number' (Enter Driver License), and 'Upload Document' (Choose File, No file chosen, max size 8 MB). A checkbox at the bottom states 'I Confirm Driver's Age is Above 20 years old'. At the bottom are 'Return' and 'Next' buttons.

Figure 2.10 Customer 2nd Process for Bookings and choose the Self Drive

Step where the customer selects the self-drive option and enters pickup details.

Car Rental Owner

Reserve your car
Complete the following steps

Step 1 Location Step 2 Driver Step 3 User Information Step 4 Rules Step 5 Book Details

Total: 1600

Search...

Choose Driver

Self Drive Action Driver

Driver Information

- Jhon Loyd**
Number of Rides Completed: 1
Price: ₱1000.00
- Joey**
Number of Rides Completed: 0
Price: ₱1000.00
- Stephen**
Number of Rides Completed: 0
Price: ₱1000.00
- Mark**
Number of Rides Completed: 0
Price: ₱1000.00
- Florence**
Number of Rides Completed: 0
Price: ₱1000.00

Figure 2.11 Customer 2nd Process for Bookings and choose the Action Driver

Step for selecting a driver-assisted rental with appropriate driver info.

Car Rental Owner

Reserve your car
Complete the following steps

Step 1 Location Step 2 Driver Step 3 User Information Step 4 Rules Step 5 Book Details

Total: ₱2600

Search...

User details

First Name: Natalie
Last Name: Amoc
No. of Person: Enter No. of Person
City: Malaybalay
Zip Code: Enter Zip Code
Additional Information: Add additional information

Enter Phone no.
Phone no.:

Barangay: Casisang
Email Address: natalie55@gmail.com

Figure 2.12 Customer 3rd Process for Bookings

Confirmation and verification step for selected booking details.

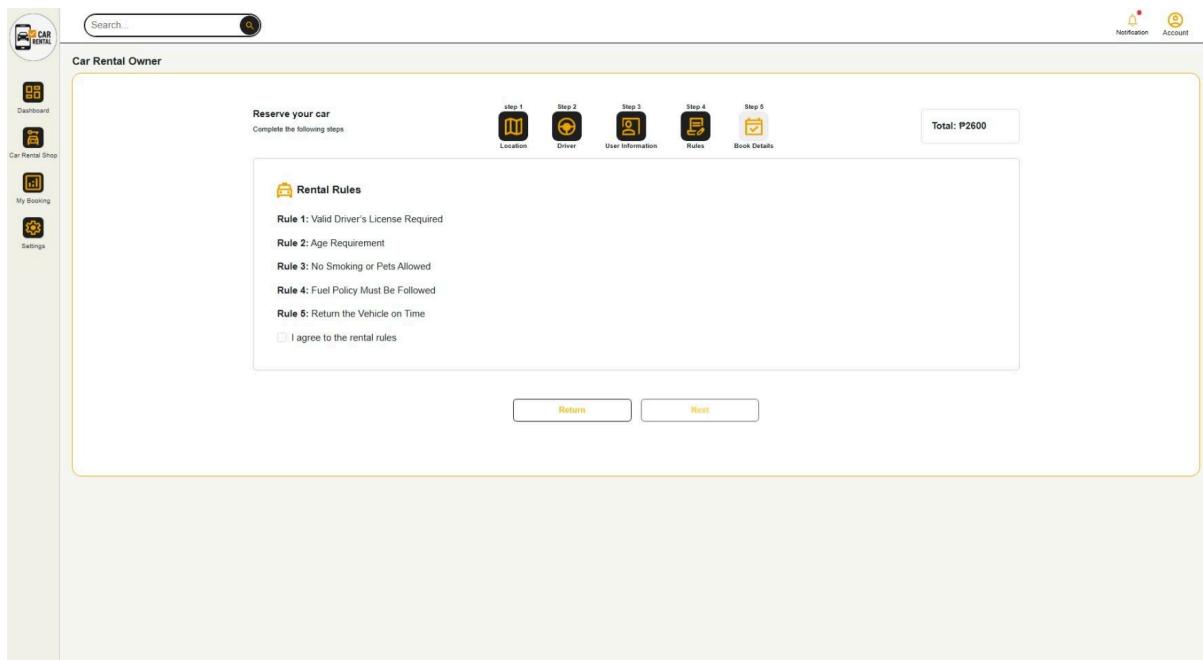


Figure 2.13 Customer 4th Process for Bookings

Displays payment information and allows final review.

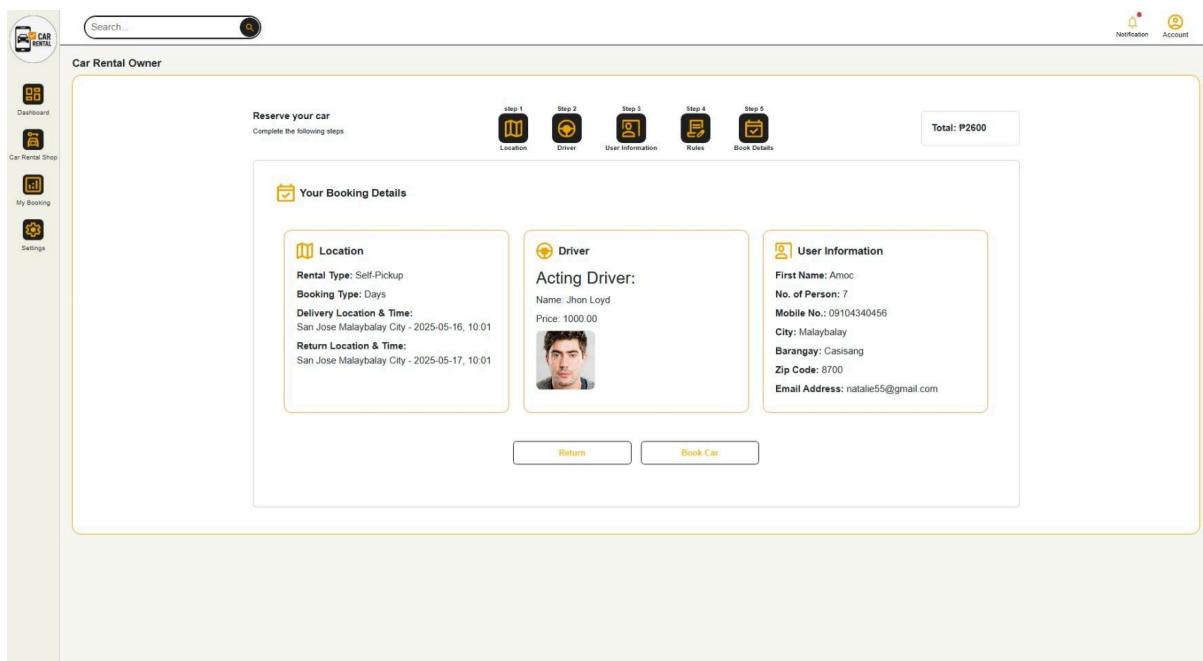


Figure 2.14 Customer 5th Process for Bookings

Booking completion screen with confirmation message and summary.

V. Group Role Breakdown



Jimmy A. Pingcas

Front-End Developer / UI UX designer



Christian Jay Principe

Back-End Developer / Programmer



Jhib Lourence Rendon

Project Manager / Researcher

PAPER FORMAT:

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FONT STYLE – Poppins

FONT SIZE – 12

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MARGIN-ALLSIZE – 1"