

Group – 02 || Assignment – 03

Submitted by ~

GROUP – 02

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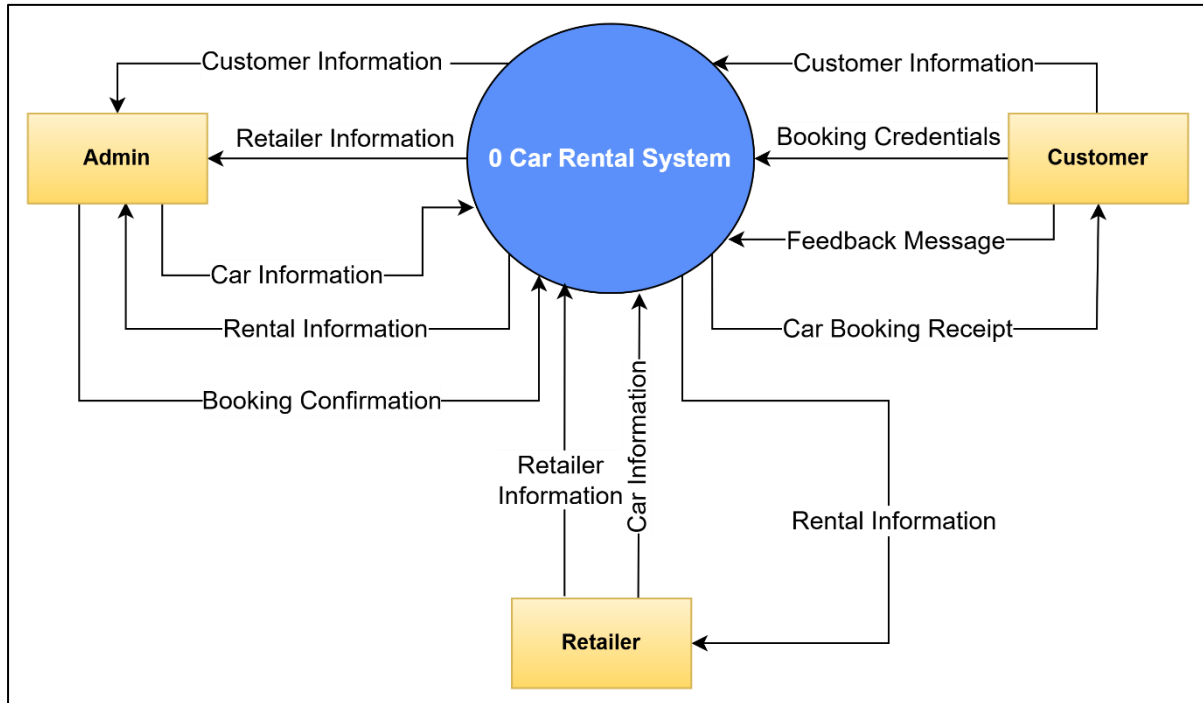
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Supradeep Roy (Roll Number: T91 – CSE – 236016)

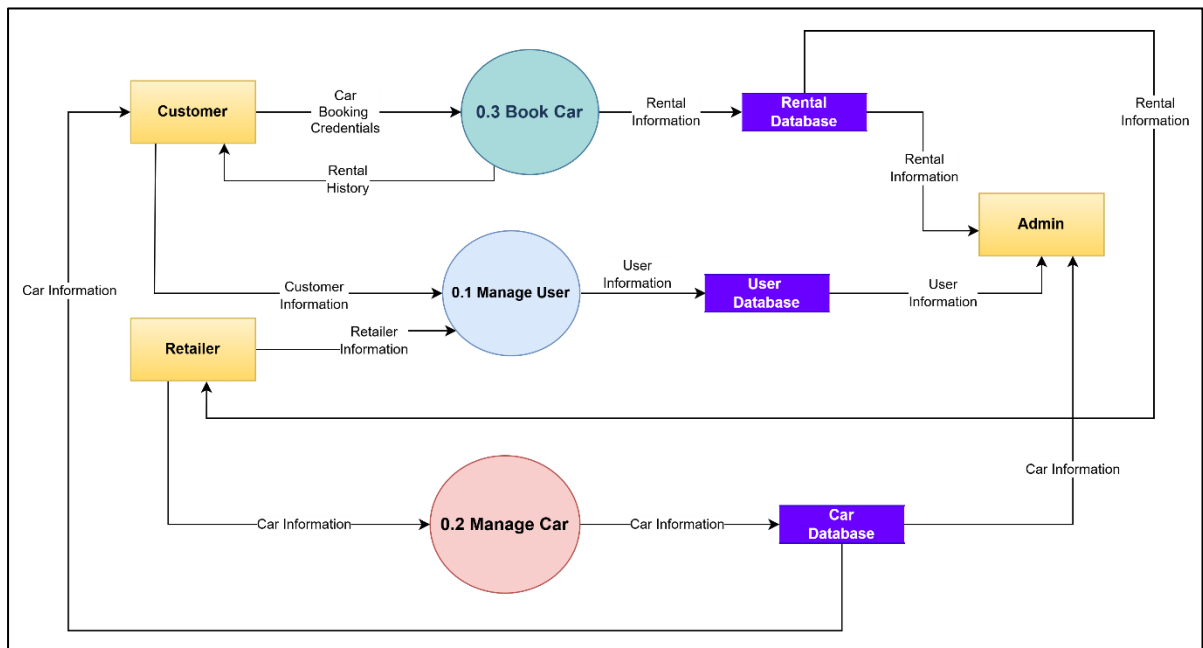
WheelBase : Online Car Rental Management System

~Unlock the Freedom of the Road with our Rentals

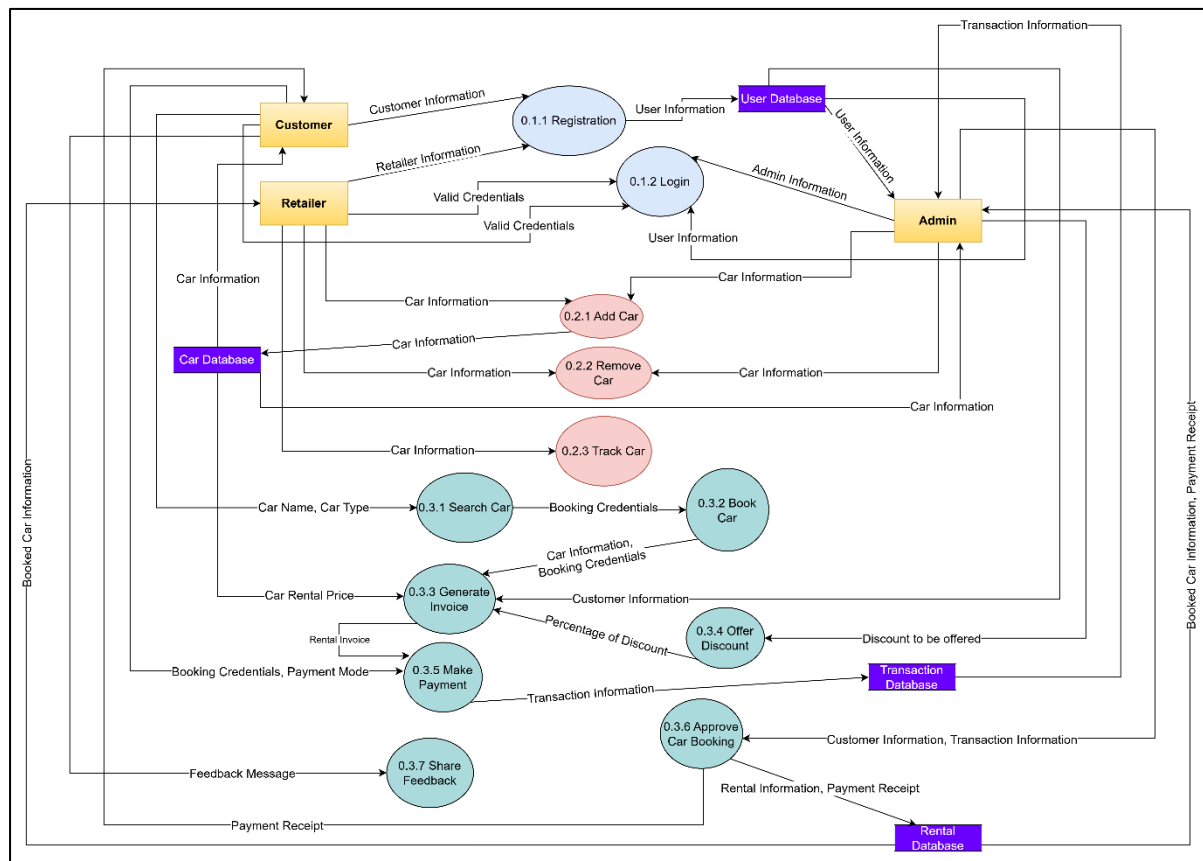
Level-0 Data Flow Diagram : –



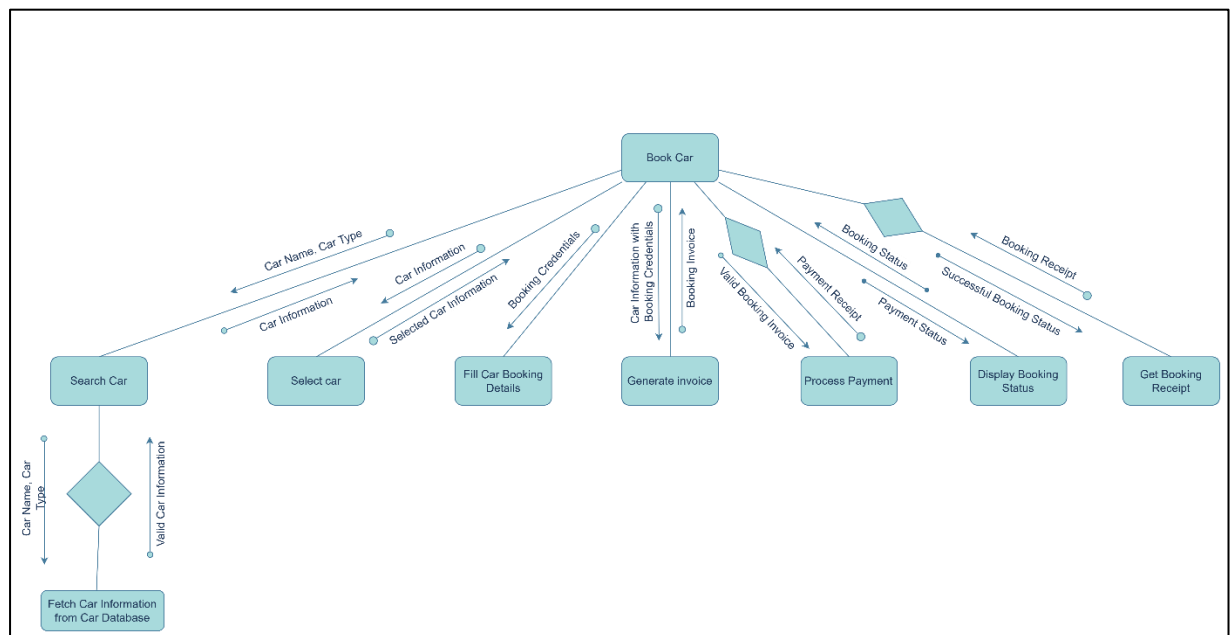
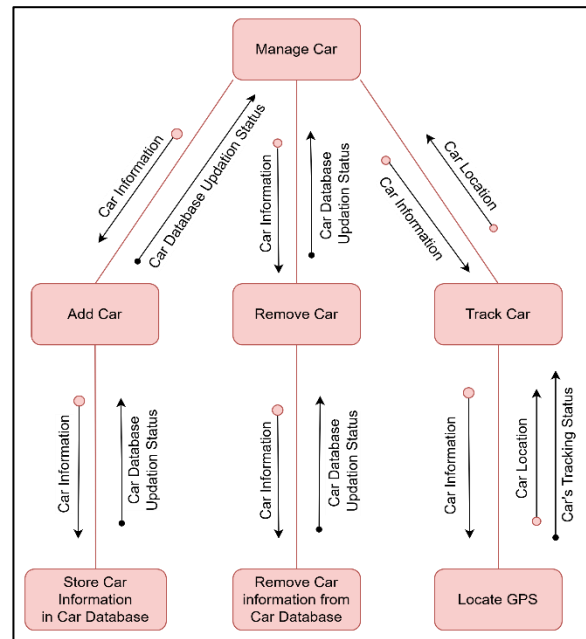
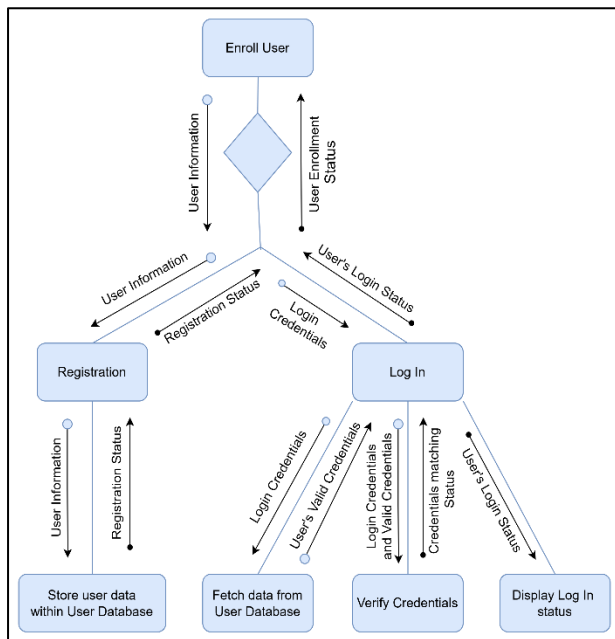
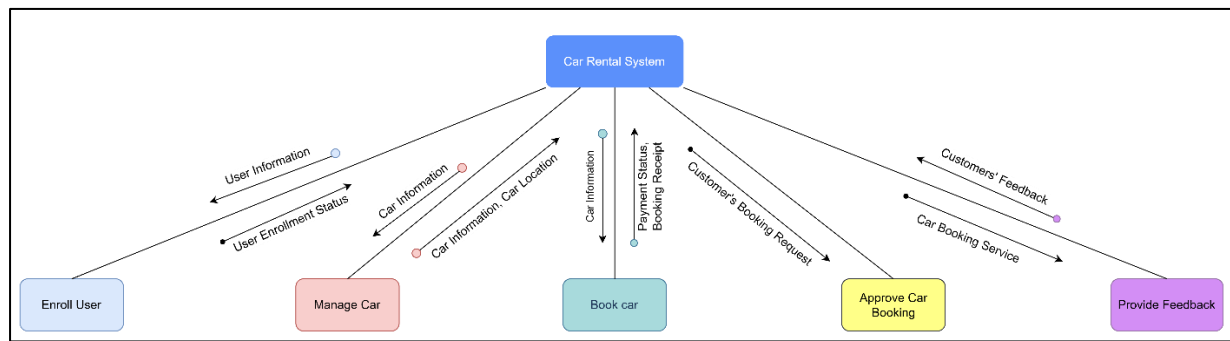
Level-1 Data Flow Diagram : –

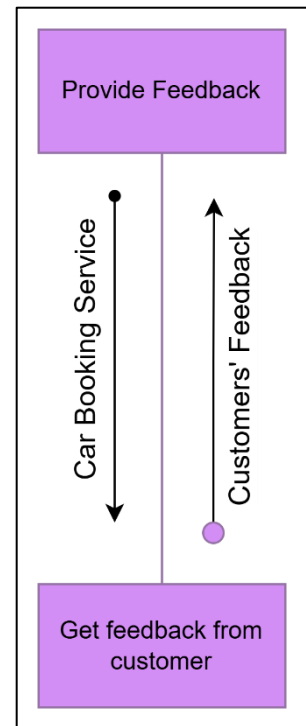
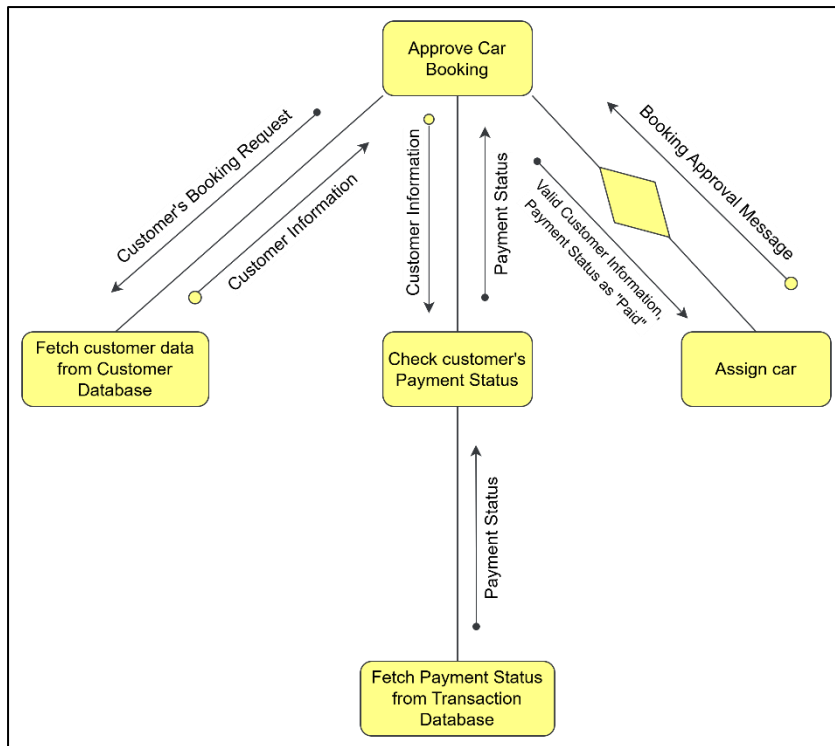


Level-2 Data Flow Diagram : –



Structure Chart : –





Data Dictionary : –

Data Elements	Serial No.	Data Field Names	Description	Process Numbers used in DFD	Modules used in Structure Chart
Customer Information	1.1	Username	Customer's Username	0.1.1, 0.1.2, 0.3.3	Enroll User, Book Car, Approve Car Booking
	1.2	Aadhaar Number	Aadhaar No. of the Customer	0.1.1, 0.1.2, 0.3.3	
	1.3	Contact Number	Customer's Contact Number	0.1.1, 0.1.2, 0.3.3	
	1.4	Email Address	Customer's Email Address	0.1.1, 0.1.2	
	1.5	Password	Customer's Password	0.1.1, 0.1.2	
Retailer Information	2.1	Username	Retailer's Username	0.1.1, 0.1.2	Enroll User
	2.2	Aadhaar Number	Retailer's Aadhaar Details	0.1.1, 0.1.2	
	2.3	Contact Number	Retailer's Contact Number	0.1.1, 0.1.2	
	2.4	Email Address	Email Address of Retailer	0.1.1, 0.1.2	
	2.5	Password	Retailer's Password	0.1.1, 0.1.2	
Admin Information	3.1	Username	Admin's username	0.1.2	Log In
	3.2	Email Address	Admin's Email Address	0.1.2	
	3.3	Password	Admin's Password	0.1.2	
User Information	4.1	Customer Information, Retailer Information	User defines customer or retailer whose data is stored within user's database	Same as of data elements – Customer Information, Retailer Information	Enroll User, Book Car, Approve Car Booking
Valid Credentials	5.1	User's valid Username, Email id, Password	Valid username, email id and password of the user whoever have registered in the portal	0.1.2	Enroll User, Book Car

Data Elements	Serial No.	Data Field Names	Description	Process Numbers used in DFD	Modules used in Structure Chart
Car Information	6.1	Registration Number	Reg. Number of the Car	0.2.1, 0.2.2, 0.2.3, 0.3.3	Manage Car, Book Car
	6.2	Name	Name of the Car	0.2.1, 0.2.2, 0.2.3, 0.3.1, 0.3.3	
	6.3	Brand	Brand name of the Car	0.2.1, 0.2.2, 0.3.3	
	6.4	Type	Type of the Car	0.2.1, 0.2.2, 0.3.1, 0.3.3	
	6.5	Capacity	Seating Capacity of the Car	0.2.1, 0.2.2, 0.3.3	
	6.6	Price	Rental Price of the Car	0.2.1, 0.2.2, 0.3.3	
	6.7	Availability Status	Car's Availability Status	0.2.1, 0.2.2, 0.3.3	
Rental Information / Booking Credentials	7.1	Customer Information	Customer's name, Aadhaar number, contact number etc	Same as of data element – Customer Information	Book Car, Approve Car Booking
	7.2	Pickup Location	Pickup location where the customer receives the car	0.3.3, 0.3.5	
	7.3	Pickup Date	Starting Date of Rental Period	0.3.3, 0.3.5	
	7.4	Return Date	Ending Date of Rental Period	0.3.3, 0.3.5	
Rental Invoice	8.1	Invoice Number	Unique Booking Invoice Number	0.3.5	Book Car
	8.2	Booking Credentials	Same as of data element – Booking Credentials	Same as of data element – Booking Credentials	
	8.3	Booking Price	Car Rental Price	0.3.3, 0.3.5	
	8.4	Discount to be applied	Discount percentage (%) offered by Admin	0.3.3, 0.3.5	
	8.5	Tax Rate	Amount of tax rate	0.3.5	
	8.6	Tax Type	CGST / IGST	0.3.5	

Data Elements	Serial No.	Data Field Names	Description	Process Numbers used in DFD	Modules used in Structure Chart
	8.7	Tax Amount	Amount of Tax applying GSTs	0.3.5	
	8.8	Total Price	Total price applying discount and GST on car booking price	0.3.5	
Transaction Information / Payment Receipt	9.1	Rental Invoice	Same as of data element – Rental Invoice	Same as of data element – Rental Invoice	Book Car, Approve Car Booking
	9.2	Booking ID	Unique Booking Identification No	0.3.6	
	9.3	PAN No	Personal Account Number	0.3.6	
	9.4	GST Registration Number	GST Registration Number	0.3.6	
	9.5	Mode of Payment	Payment mode like – Debit/Credit Card Details / UPI	0.3.6	
	9.6	Payment Date & Time	Date and Time of Booking Payment	0.3.6	
	9.7	Payment Status	Payment Status [Pending / Paid / Cancelled]	0.3.6	
Feedback / Review message	10.1	Ratings	Customer's given rating out of 5	0.3.7	Provide Feedback
	10.2	Comments / Suggestions	Customer's Remarks or Suggestions	0.3.7	