Vẽ DFD từ tập Ca Sử Dụng: Một ví dụ minh họa

Được tham khảo từ: Dennis, Wixom, Roth. System Analysis & Design (5th edition)

Tập Ca Sử Dụng

Use Case Name: Record an offer		ID: UC-3	Priority: High				
Actor: Salesperson							
Description: This use case describes how the salesperson records a customer offer on a vehicle. The offer may be a new offer or a revision of a previously rejected offer.							
Trigger: Customer decides to make an offer on a vehicle.							
Type: ☑ External ☐ Temporal							
Preconditions: 1. Salesperson is authenticate 2. Pending offers datastore is 3. Vehicle inventory datastore is 4. Rejected offers datastore is	available and on-line. s available and on-line.						
Normal Course:			Informati	tion for Steps:			
				✓ Vehicle ID			
	2. The system checks for any pending offers on the vehicle.						
	on the vehicle, the system notifies t	he -	Offer Per	nding Notice			
salesperson and the use case ends.							
4. If there are no pending offers on the vehicle, the system asks if this is a new offer or an offer revision. Offer Type							
5. If this is an offer revision,							
a. The salesperson specifies the ID of the previous offer. Offer ID							
	form with the content of the previo	us Offer from th	ne P	revious offer details			
Rejected Offers dataston Otherwise.	ε.						
	form with details on the offer vehic	le.	▼ Vehicle d	etaile			
	es additional information for the o						
customer information and the specific offer details (Cash Plus trade-in Value, Customer details							
desired dealer options).							
7. The system displays offer summary. Offer Summary.							
8. The salesperson is asked to obtain customer permission to confirm the offer. 9. If not confirmed, the offer is discarded, otherwise, the confirmed offer is stored as a							
Pending Offer.				ding Offer			
10. A Copy of the Pending Offer is printed for the customer.							
11. A Pending Offer Notice is sent to the Sales Manager for evaluation Pending Offer Notice							
and approval.							
Postconditions:							
Pending Offer is stored. Sales Manager is sent notice of pending offer.							
	e of penaling offer.						
Summary	Source	Outputs		Destination			
Vehicle ID	Salesperson		na Notice	Salesperson			
Existing Pending Offers	Pending Offers	Offer Pending Notice Salesperson Offer Summary Customer New Pending Offer Pending Offer					
	datastore						
Offer Type	Salesperson	datastore					
Offer ID	Salesperson	Pending Offer Customer					
Previous Offer details	Rejected Offers datastore	Pending Of	ter Notice	Sales Manager			
Vehicle datastore	Vehicle details						
Customer details	Customer						
Offer details	Salesperson						

Use Case Name: Evaluate an offer			ID: UC-4		Priority: High			
Actor: Sales manager								
Description: This use case describes how the sales manager evaluates an offer and accepts it or rejects it with a reason.								
Trigger. A Pending offer is created	and the sales manager is notified.							
Type: ☑ External ☐ Temporal								
Preconditions:								
1. Sales manager is authentic								
Pending offer is available in Normal Course:	the Pending Offers datastore.		16	formation	a for Change			
	the Pending Offer from the Pending			ending off	n for Steps:			
Offer datastore.				ending off				
	Vehicle ID number to retrieve the Veh	icle		ehicle ID	-11-			
Record on the vehicle 3. The system prompts the Sa	les Manager to Accept or Reject the	offer.		ehicle deta ffer decisi				
4. If the offer is rejected,								
	Sales Manager to provide a reason fo	or <	₹ Re	eason for	Rejection			
the rejection.	ncluding the reason is sent to the	_	- 01	ffer Reject	tion Notice			
salesperson.	nordaling the reason is sent to the			Troi Rojoo	DIOTI NO DIOC			
c. The Pending Offer is remo				1 22 1 22 1 37				
	a Rejected Offer in the Rejected ble only to the logged in salesperson.	.	→ Ne	ew Reject	ed Offer			
5. If the offer is accepted,	ble only to the logged in salesperson.							
a. The system uses informa	tion from the Pending Offer to							
produce a Sales Contract		<u></u>	→ Ne	ew Sales (Contract			
datastore.	red in the Pending Sales Contracts							
c. Two copies of the Sales Contract are printed for the			→ 5a	ales Conti	ract			
Salesperson and custom								
 d. The Pending Offer is removed from the Pending Offers datastore and stored in the Accepted Offers datastore. 			→ N/	ew Accept	ted Offer			
	recorded in the Deposits datastore	-		urchase D				
	ied in the offer are used to prepare a				•			
	stored in the Shop Work Orders	_	> 51	hop Work	Order			
datastore and sent to the Shop Manager. Postconditions:								
	n Pending Sales Contract datastore.							
	m Pending Offers and added to Acce	oted Offers or t	o Rejected Of	ffers				
 Customer deposit amount i Work to be done on the sale 		order and Shop	Manager is no	ntified				
Work to be done on the sale vehicle is recorded as a Show Work Order and Shop Manager is notified. Summary								
Inputs	Source	Outputs			Destination			
Pending offer ID	Sales Manager	Offer Rejecti	ion Notice		Salesperson			
Pending offer	Pending Offers	New Rejecte			Rejected Offers			
Vehicle ID	datastore Sales Manager	N C I C C I C			datastore Sales Contract			
Vehicle details	Vehicle datastore	New Sales Contract			datastore			
Offer decision	Sales Manager	Sales Contract			Customer/Salesperson			
Reason for Rejection	Sales Manager	New Accepted Offer Accepted Offers						
		Purchase Deposit Deposits datastore						
		Shop Work C			Shop Work Orders			
					Datastore			
		Shop Work C	Irder Notice		Shop Manager			

Use Case Name: Take delivery		ID: UC-5	Priority: High				
Actor: Salesperson							
Description: This use case describes how the salesperson completes the vehicle sale to the customer.							
Trigger: Customer has the final payment for the vehicle.							
Type: ☑ External ☐ Temporal							
Postconditions:							
1. Salesperson is authenticat							
2. Sales Contract is available in Pending Sales Contract datastore.							
Normal Course:	ormal Course: Information for Steps:						
2. The System asks the salesperson to confirm that the customer accepts Vehicle accepted confirmation							
the vehicle and has provided the required payment (cash plus trade-in).							
3. If confirmed,							
a. the system stores the Sales Contract in the Final Sales Contract datastore. ———— New Final Sales Contract							
b. A Final Sales Contract is printed for the customer. Final Sales Contract							
c. Payment is recorded. — Final Payment							
Otherwise, the use case ends.							
Postconditions:							
1. The Sales Contract is recorded in the Final Sales Contract datastore.							
2. Payment is recorded.							
Summary							
Inputs	Source	Outputs		Destination			
Sales Contract ID	Salesperson	New Final S	ales	Final Sales Contract			
Vehicle accepted	Customer	Contract datastore		datastore			
confirmation		Final Sales Contract Customer					
Payment submission	Salesperson	Final Payme	nt	Payments datastore			
verification	1						

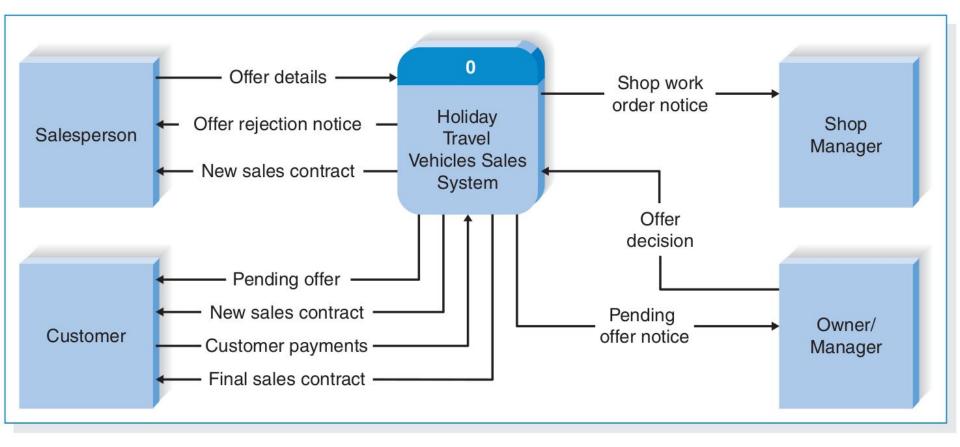


FIGURE 5-5
Holiday Travel Vehicles Sales System Context Diagram

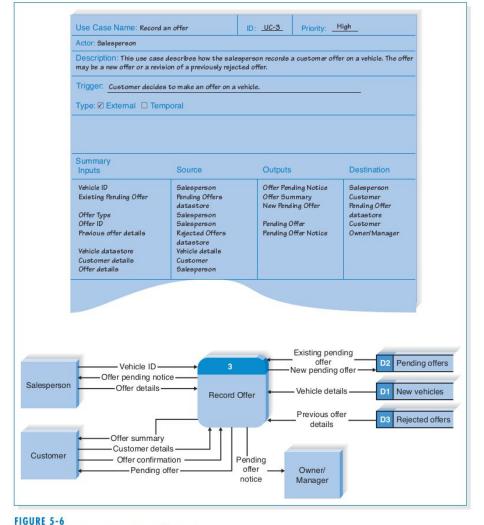
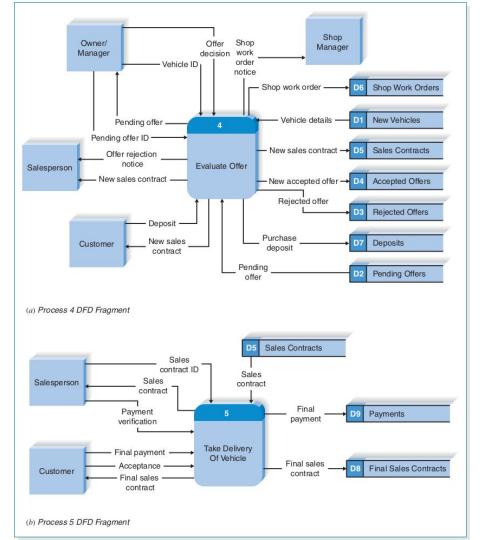


FIGURE 5-6



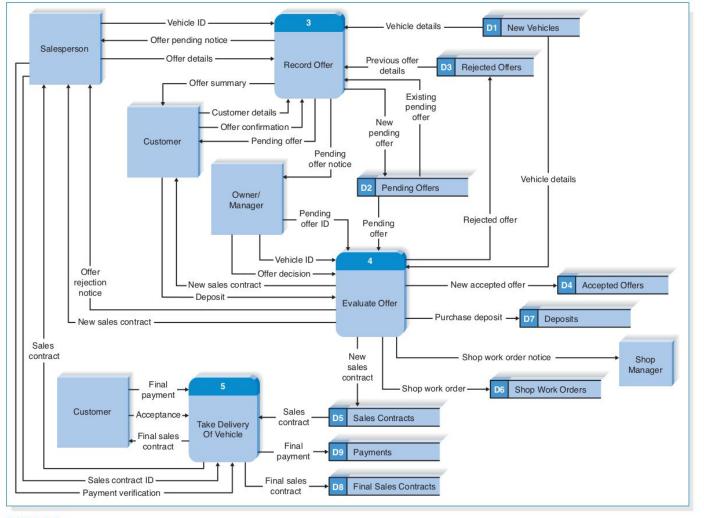


FIGURE 5-8

DFD Mức 1

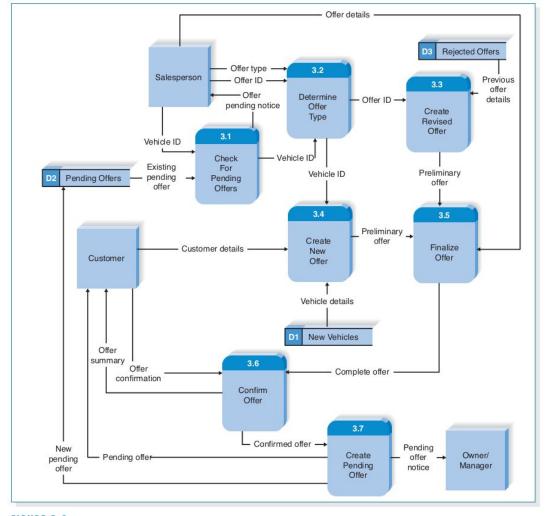
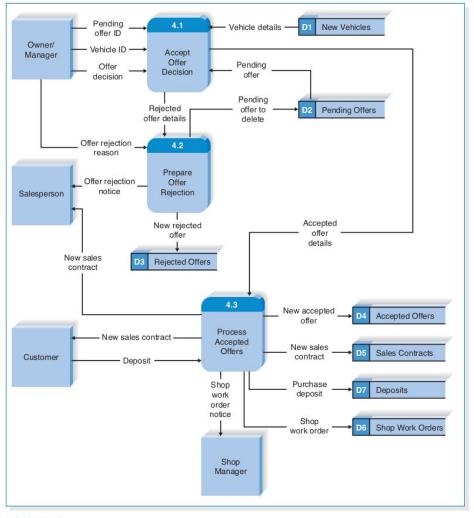


FIGURE 5-9



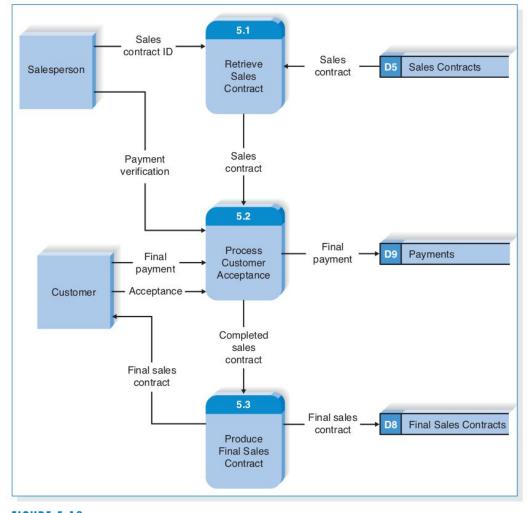
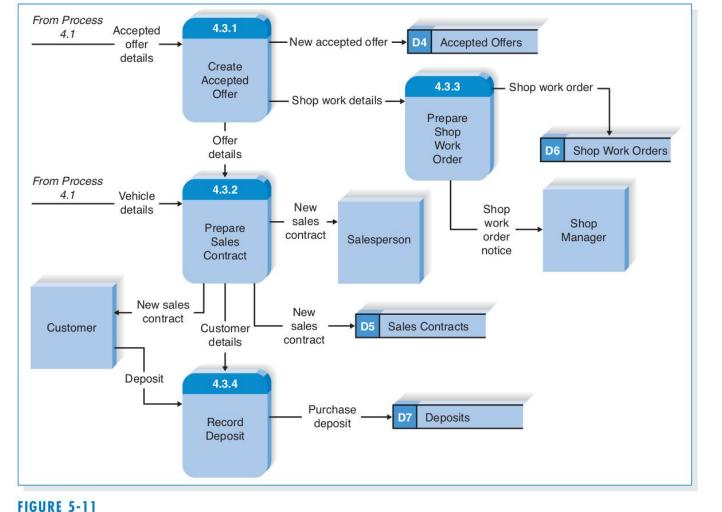


FIGURE 5-12
Holiday Travel Vehicles Process 5 (Take Delivery of Vehicle) Level 1 DFD

DFD Mức 2



Holiday Travel Vehicles Process 4.3 (Process Accepted Offers) Level 2 DFD

Tổng kết

Sử dụng Tập ca sử dụng chi tiết để vẽ DFD

Thông thường 1 ca sử dụng có thể tương đương 1 tiến trình mức 0

Một hoạt động trong luồng sự kiện của ca sử dụng có thể tương đương 1 tiến trình mức 1