



ISDS 552

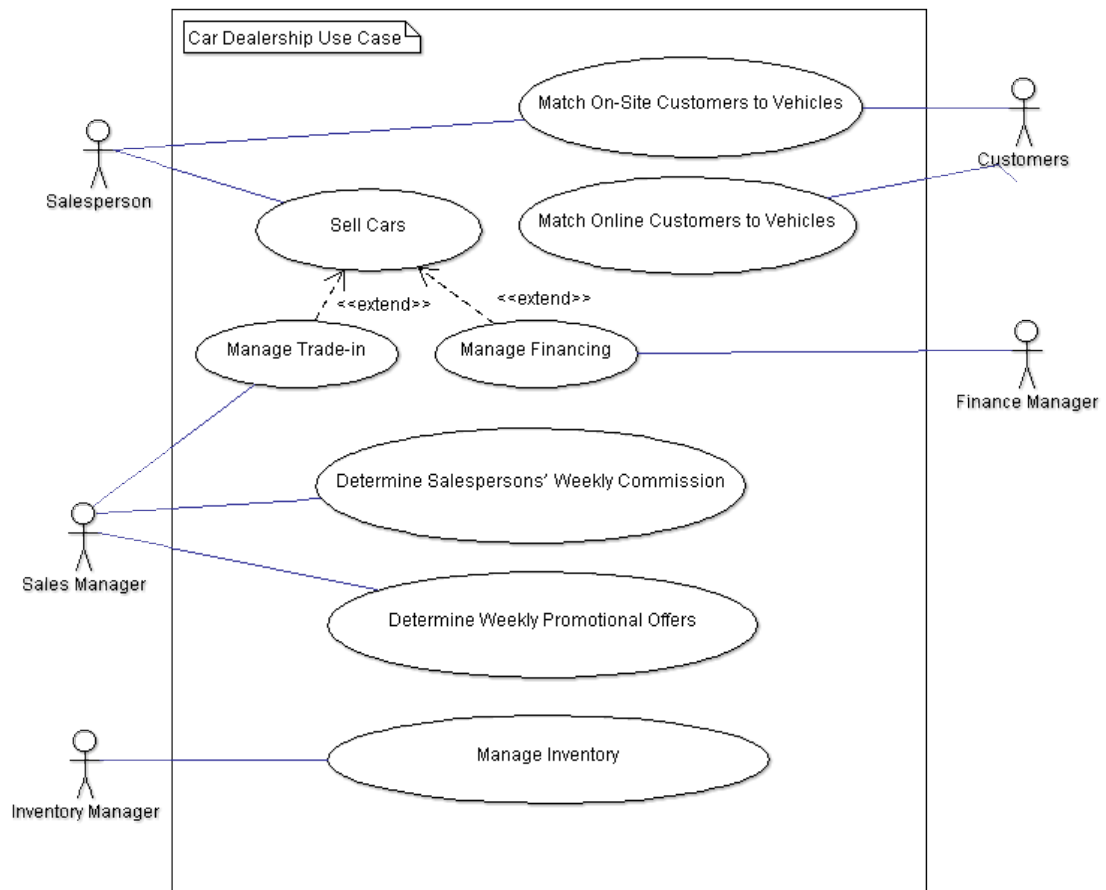
System Analysis & Design

GP2- Car Dealership

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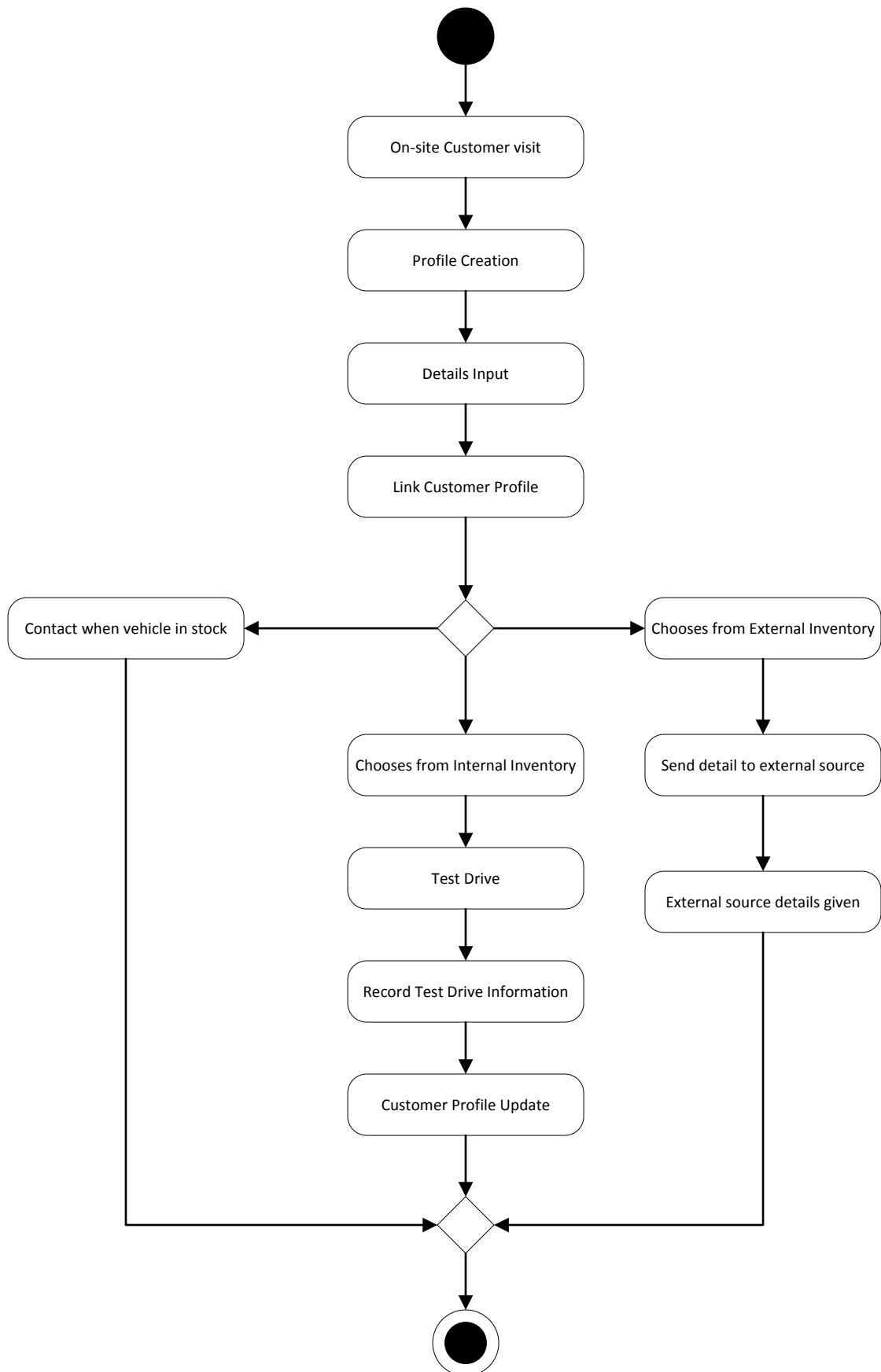
Spring 2018



Use Case Description to Match On-Site Customers to Vehicles

Use Case Name: Match On-Site Customers to Vehicles		ID: 1	Importance Level: High
Primary Actor: Salesperson		Use Case Type: Overview	
Stakeholders and Interests: <ul style="list-style-type: none">On-Site customer with vehicle preferencesSalesperson, a user of the system, to search for vehiclesInventory Manager updates the back end to show the vehicle in the system			
Brief Description: This use case describes an on-site customer who is looking for a vehicle that matches their preferences at the dealership.			
Trigger: Salesperson searches in the inventory for a vehicle that a customer wants. Type: External			
Relationships: <ul style="list-style-type: none">Association: NoneInclude: NoneExtend: NoneGeneralization: None			
Normal Flow of Events: <ol style="list-style-type: none">Customer visits a dealership with vehicle preferences in mind.Salesperson creates customer profile.Salesperson inserts requirements/specifications into the system.System links customer specifications with a customer profile.Customer chooses from available internal inventory options. If the customer chooses from an external inventory, the S-1: Customer chooses from an external inventoryCustomer does a vehicle test drive, and salesperson records information of test drive.Update the customer’s profile.			
SubFlows: <ul style="list-style-type: none">S-1: Customer chooses from an external inventory<ol style="list-style-type: none">Salesperson inputs information of a vehicle that customer chooses from an external inventory.Sends the information of the selected vehicle to a different dealership.Provides the customer with a detailed information of the dealership for vehicle purchase.			
Alternate/Exceptional Flows: If a customer wants a vehicle that is unavailable at the moment, the salesperson will send a request to the manufacture and contact the customer when the vehicle arrives at the dealership.			

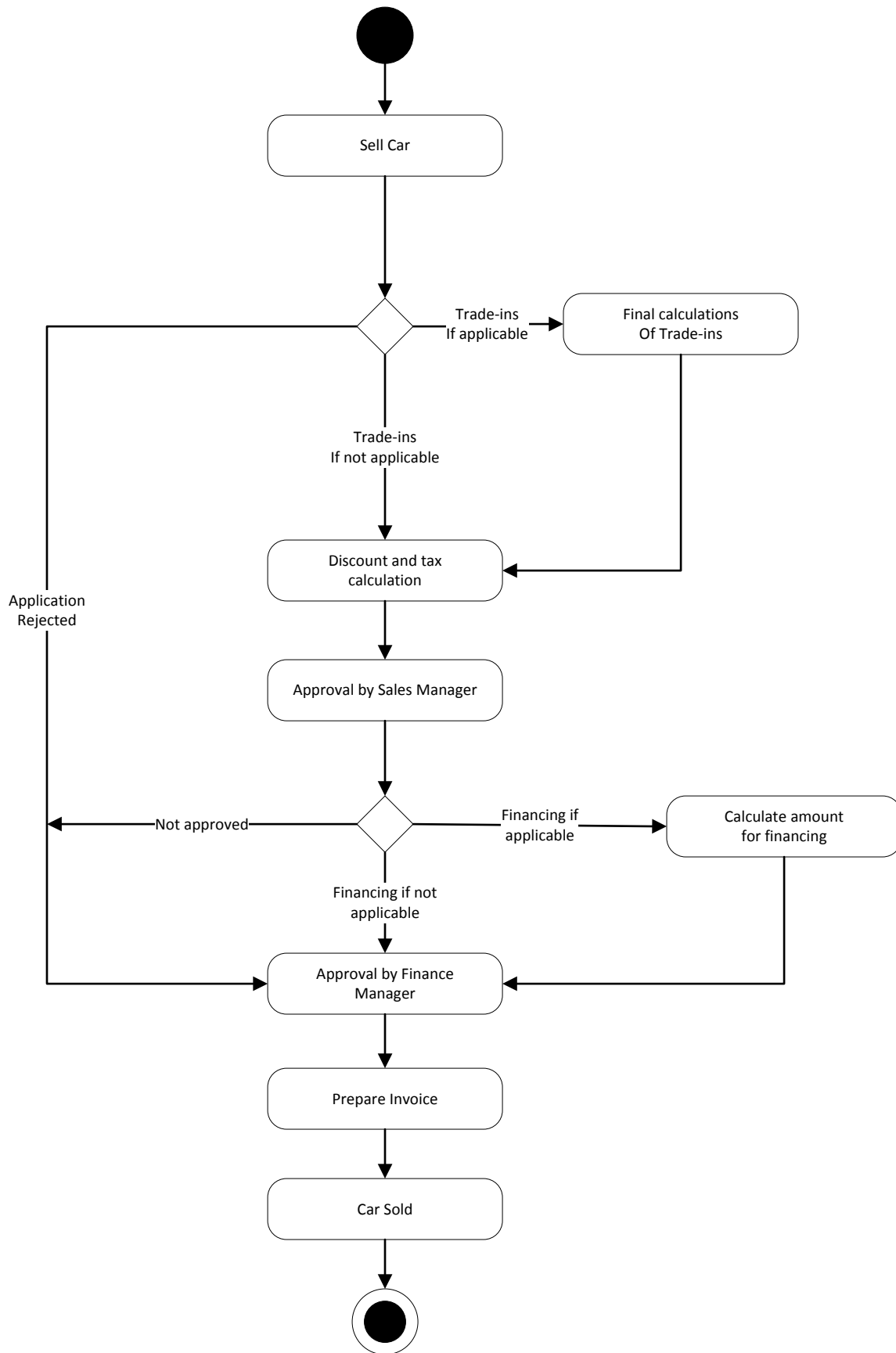
Activity Diagram to Match On-Site Customers to Vehicles



Use Case Description for Sell Cars

Use Case Name: Sell Cars		ID: 2	Importance Level: High
Primary Actor: Salesperson		Use Case Type: Overview	
Stakeholders and Interests: <ul style="list-style-type: none">Salesperson – Sells the vehicle and completes the financial processFinance Manager – Approves the sales processCustomer – Buys the vehicle			
Brief Description: This use case describes the process involved for selling a vehicle to the customer			
Trigger: Customer agrees to buy the vehicle. Type: External			
Relationships: <ul style="list-style-type: none">Association: Finance ManagerInclude: NoneExtend: Manage Trade-ins, Manage FinancingGeneralization: None			
Normal Flow of Events: <ol style="list-style-type: none">The customer selects the vehicleDiscount and tax prices are calculatedApproval by the sales managerAn invoice is prepared for customerVehicle is sold			
SubFlows: <ul style="list-style-type: none">S-1: Purchasing vehicles from external sources (other dealers and manufacturers)<ol style="list-style-type: none">The inventory increasesS-2: Purchasing vehicles from internal sources<ol style="list-style-type: none">The inventory increasesS-3: Selling vehicles from existing inventory<ol style="list-style-type: none">The inventory decreasesS-4: Trading-in Vehicles<ol style="list-style-type: none">The inventory simultaneously increases certain vehicles and decreases other vehicles.			
Alternate/Exceptional Flows: <ul style="list-style-type: none">A1: Instantiate “Manage Trade-ins”<ol style="list-style-type: none">Salesperson calculates trade-ins if applicableA2: Instantiate “Manage Financing”<ol style="list-style-type: none">Option for financing/lease is provided if applicableFinancial manager approves the financing/leaseA3: There is a disagreement over the price of vehicle, or customer decides not to purchase the vehicle for other reason.			

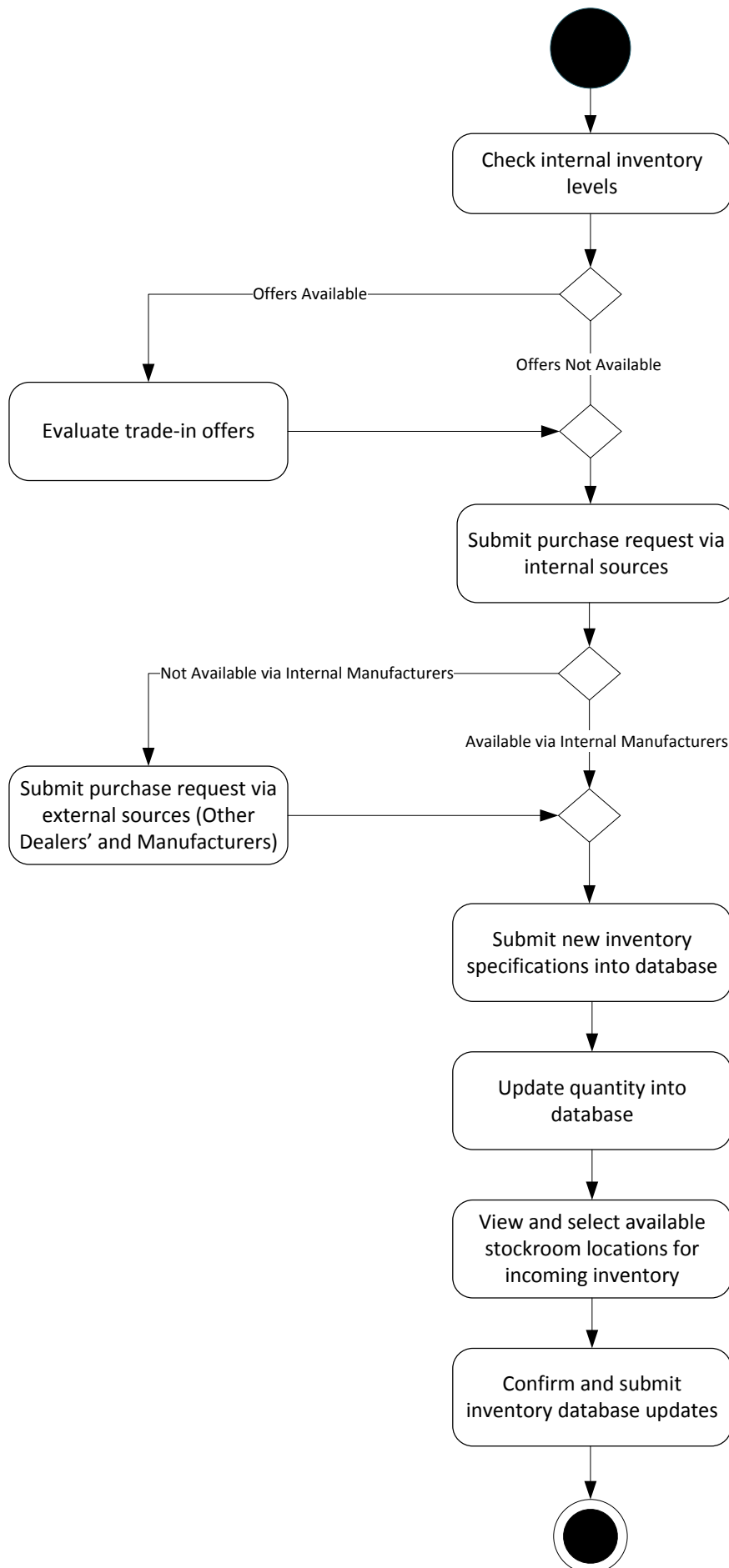
Activity Diagram for Sell Car



Use Case Description for Manage Inventory

Use Case Name: Manage Inventory		ID: 3	Importance Level: High
Primary Actor: Inventory Manager		Use Case Type: Overview	
Stakeholders and Interests: Inventory Manager - Responsible for managing inventory records.			
Brief Description: This use case describes how to revise inventory as the result of internal (purchasing, selling and trading-in) and to access external vehicles sources.			
Trigger: Vehicle purchases Type: Internal			
Relationships: Association: None Include: None Extend: None Generalization: None			
Normal Flow of Events: 1. Check internal inventory levels 2. Inventory manager checks for any trade-in offers If trade-in offers available the S-1: trade-in subflow is performed 3. Submit purchase request via internal manufacturers If not available via internal manufacturers, the S-2: external source subflow is performed 4. Submit new inventory specifications into database 5. Update quantity into database 6. View and select available stockroom locations for incoming inventory 7. Confirm and submit inventory database updates			
SubFlows: S-1: Trade-In 1. Evaluate trade-in offers 2. Accept trade-in offers that fill gaps in inventory needs S-2: External Source 1. Submit purchase request from external sources (i.e. other dealers) 2. Receive confirmation from external source			
Alternate/Exceptional Flows: None			

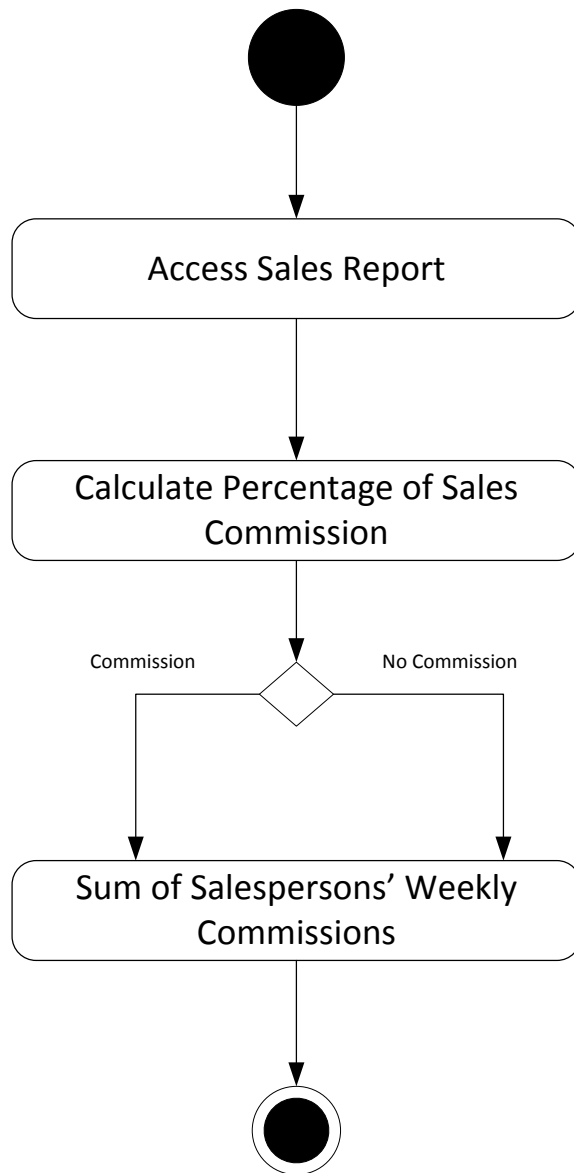
Activity Diagram for Manage Inventory



Use Case Description to Determine Salespersons' Weekly Commission

Use Case Name: Determine Salespersons' Weekly Commission		ID: 4	Importance Level: High
Primary Actor: Sales Manager		Use Case Type: Overview	
Stakeholders and Interests: <ul style="list-style-type: none">Salesperson – Sells vehicleFinance Manager – Approves salespersons' commission			
Brief Description: This use case describes how we determine the weekly – salespersons' commission.			
Trigger: End of the week Type: Temporal			
Relationships: <ul style="list-style-type: none">Association: NoneInclude: NoneExtend: NoneGeneralization: None			
Normal Flow of Events: <ul style="list-style-type: none">1. Sales manager access sales report2. Calculates percentage of sales commission3. Sales commission determined If no commission, The S-1 No Commission4. Weekly report of salespersons' commission			
SubFlows: <ul style="list-style-type: none">S-1: No Commission<ul style="list-style-type: none">1. No sales completed before end of week			
Alternate/Exceptional Flows: None			

Activity Diagram to Determine Salespersons' Weekly Sales Commission



Use Case Description to Determine Weekly Promotional Offers on Internal Inventories

Use Case Name: Determine Weekly Promotional Offers		ID: 5	Importance Level: High
Primary Actor: Sales Manager		Use Case Type: Overview	
Stakeholders and Interests: <ul style="list-style-type: none">Sales manager decides the promotional offers on internal inventories for the following weekSalesperson uses the promotional offer to conduct sales business with customers			
Brief Description: This use case describes how to determine weekly promotional offers on internal inventories.			
Trigger: End of the week Type: Temporal			
Relationships: Association: None Include: None Extend: None Generalization: None			
Normal Flow of Events: <ol style="list-style-type: none">Sales manager looks up the current internal inventory report and recent sales reportSales manager analyses the recent salesSales Manager determines the new promotional offers for the following weekSystem is updated with the new promotional offers.			
SubFlows: None			
Alternate/Exceptional Flows: None			

Activity Diagram to Determine Weekly Promotional Offer

