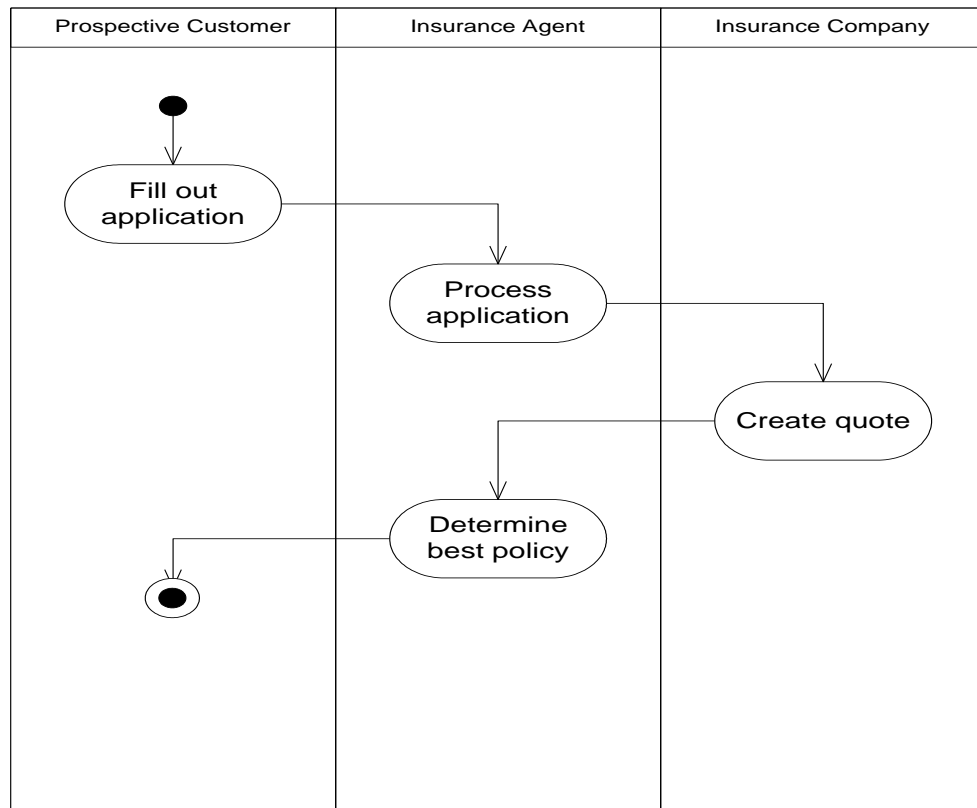


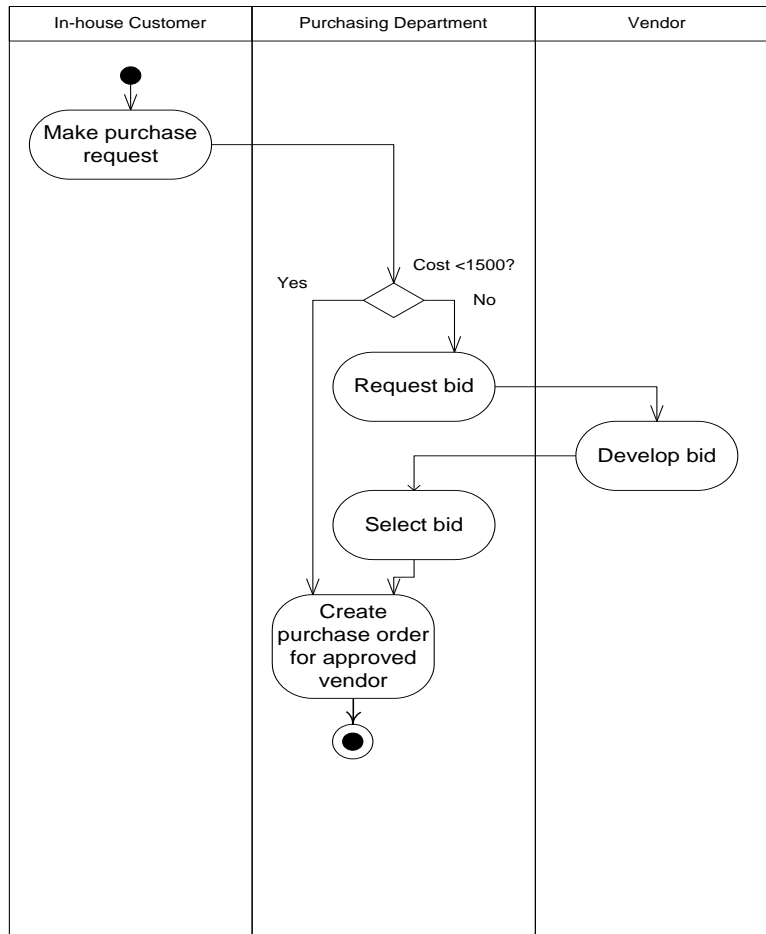
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3500 Systems Analysis & Design * Travica

Activity Diagram Exercises, Satzinger et al., 2005, Q11, p. 160

Develop an activity diagram based on the following narrative. The purpose of the Open Access Insurance System is to provide automotive insurance to car owners. Initially, prospective customers fill out an insurance application, which provides information about the customer and his or her vehicles. This information is sent to an agent, who sends it to various insurance companies to get quotes for insurance. When the responses return, the agent then determines the best policy for the type and level of coverage desired and gives the customer a copy of the insurance policy proposal and quote.



Create an activity diagram based on the following narrative. The purchasing department handles purchase requests from other departments in the company. People in the company who initiate the original purchase request are the "customers" of the purchasing department. A case worker within the purchasing department receives that request and monitors it until it is ordered and received. Case workers process the requests for purchasing products under \$1,500, write a purchase order, and then send it to the approved vendor. Purchase requests over \$1,500 must first be sent out for a bid from the vendor that supplies the product. When the bids return, the case worker selects one bid. Then, the case worker writes a purchase order and sends it to the approved vendor.



Chapter 6, Case Studies

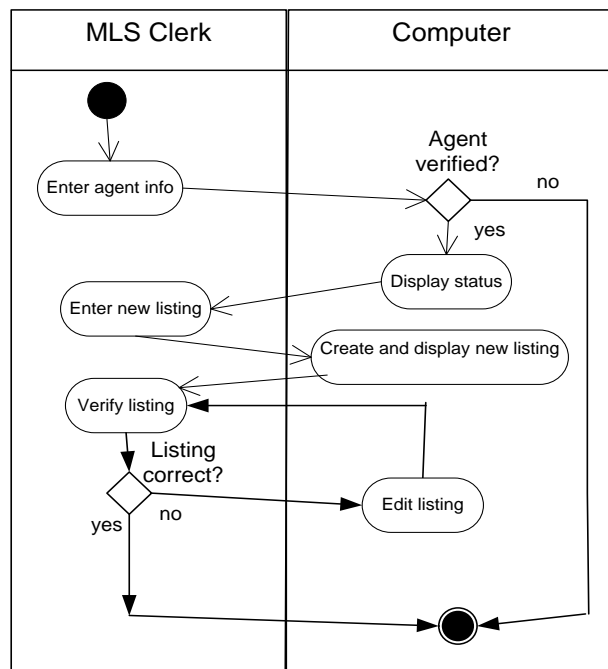
Case Study: Real Estate Multiple Listing Service System



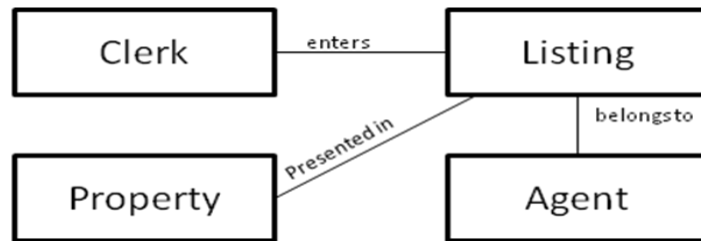
2. Develop a fully developed use case description, activity diagram, and class diagram (abbreviated) for the first use case Add a Listing.

Full Use Case Description for Add a Listing use case

Use Case Name:	Add a listing	
Scenario:	Add a single listing	
Triggering Event:	Agent wants to add a listing to the database	
Brief Description:		
Actors:	Clerk in the MLS office	
Stakeholders:	MLS clerk Agent RE Office clerk	
Preconditions:	Real Estate Agent must exist	
Postconditions:	New Listing object must exist	
Flow of Events:	<div>Actor</div> <ol style="list-style-type: none"> 1. Enter Agent info 2. Enter new listing information on a property 3. Verify Listing 4. Quit session 	<div>System</div> <ol style="list-style-type: none"> 1. Verify agent – find and display status 2. Create new listing, display it 3. Terminate session
Exception Conditions:	<ol style="list-style-type: none"> 1. If agent not found in database, terminate session 3. If errors in listing, edit listing 	



Activity Diagram for Add a Listing use case



Class Diagram for Real Estate Agency System
(based on use case description above)