

## Activity 06: Domain Modeling

Draw a domain model class diagram for the following scenario.

### Joondalup Veterinary Surgery

Joondalup Veterinary Surgery is a small vets' practice operating in the suburbs of Perth. Customers bring their pets to a surgery for examination by one of the practice's vets. At each visit a vet is assigned a customer i.e. customers do not always see the same vet. Because customer's pets change regularly, the practice does not try to hold information about customer's pets. Instead the information about a pet is entered onto the invoice during each visit. It may be assumed that a customer will only make one visit to the practice on any one day. The cost of the work items is based on the type of work item itself and also the time it takes to perform the task. For example the rate per hour for examinations is \$60. A ten minute examination therefore costs \$10. On the other hand, the cost of dispensed items is directly related to the dispensed item code used.

The Surgery is considering creating a website that will allow customers to book or change appointments, pay invoices as well as email enquiries or questions to their vet. In the new website a facility will be offered to pay (or part-pay) the invoice. In addition the website would let customers view examples of what facilities are offered for their pets.

Joondalup Veterinary Surgery			
Customer Invoice			
<b>Customer</b> A N Owner	<b>Visit Date</b> 22/04/2016	<b>Animal type</b> Dog	<b>Animal name</b> Rover
<b>Customer address</b> 3 Kennel Road Joondalup 6027 Perth		<b>Vet. no.</b> 3	<b>Vet. name</b> A Nimal-Lover
<b>Work items:</b>			
<b>Item no.</b>	<b>Code</b>	<b>Description</b>	<b>Cost</b>
1	EX	examination	10
2	INJ	injection	15
		Sub-total:	25
<b>Dispensed items:</b>			
<b>Item no.</b>	<b>Code</b>	<b>Description</b>	<b>Cost</b>
1	P10	Heartguard pills	40
2	P08	Anti-worm pills	15
3	V02	Anti-tetanus vaccine	30
		Sub-total:	85
		Grand total:	110

