Lab 7: CRC Cards and Domain Analysis

In this lab, you will perform domain analysis and design.

Objectives:

- To work with CRC cards
- To create a domain-level class diagram

Steps:

_1. Here is the requirements statement for this lab:

- An insurance agent signs up a new customer for a life insurance policy. The policy must be approved by an underwriting system, based on the customer's age, the policy amount and whether the customer is a smoker. Upon approval, the agent assigns the policy to the customer and collects a commission based on the policy amount.
- The insurance agent also sells automobile policies for both smokers and non-smokers and low-risk and high-risk drivers. Policy rates also depend on the drivers' number of "incidents", which include accidents and moving violations.
- The insurance agent also sells property insurance policies that are based on whether the property is commercial or residential. Property insurance policy rates depend on zipcode -- the company has an automated system that calculates a rate "multiplier", given a zipcode.

_2. Your first job is use CRC cards as a brainstorming technique to help you figure out the classes you will need to implement the system.

Get into your groups and come up with as many index cards as you feel are necessary -- focus mostly on the responsibilities first, then think about collaborators later.

_3. Your next job is to create a class diagram that models the classes you discovered in the previous step.

Here are the artifacts that you should create:

- A sketched class analysis-level diagram drawn on a piece of paper **OR**
- An analysis-level class diagram created in RSM in a new UML Project named **Lab07** with a Blank Model named **lab07model.emx**.

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