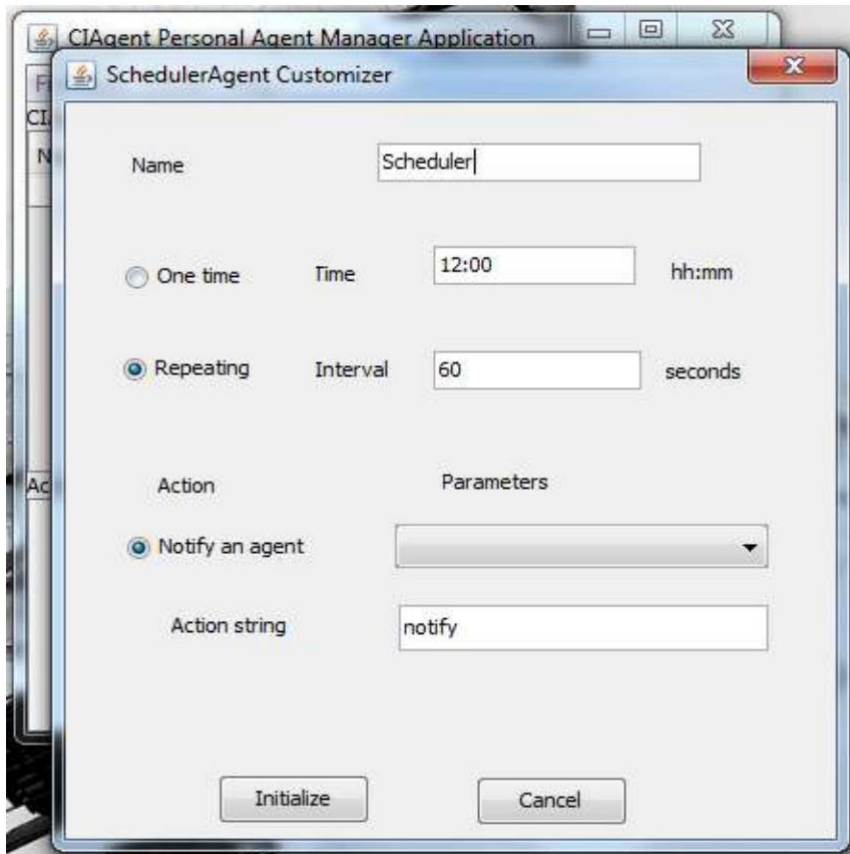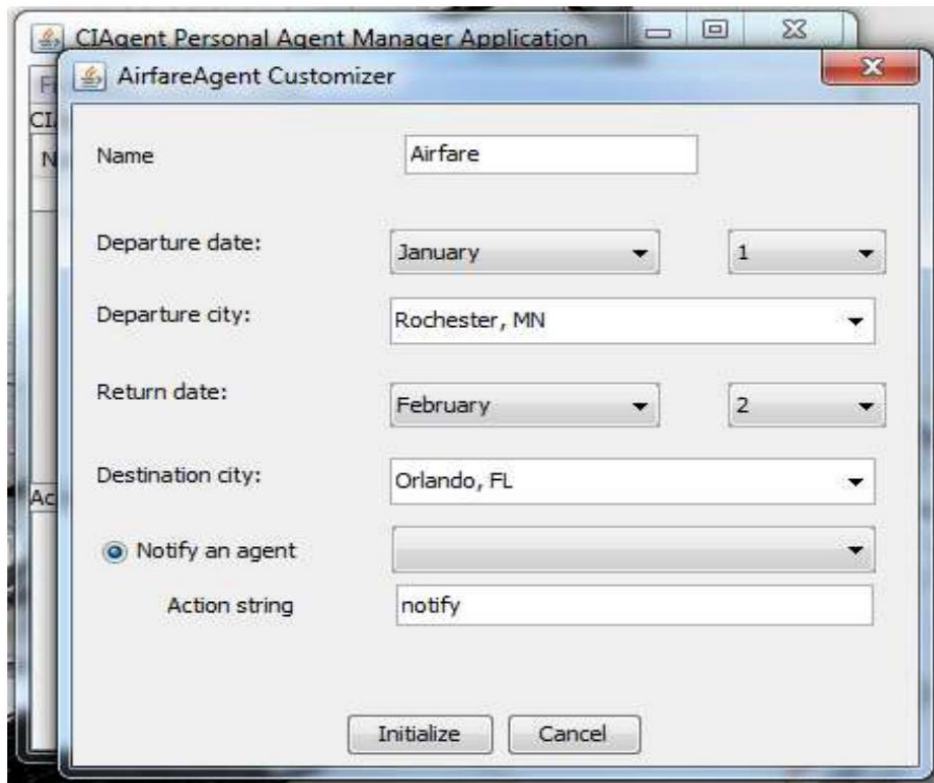# Lab #6. Personal Agent Manager

1. Read Chapter 8. (Text: Constructing Intelligent Agents Using Java).
2. Implement the Personal Agent Manager, which includes FileAgent, PAManagerAgent, SchedulerAgent, UserNotificationAgent and AirfareAgent. The source code is provided attached. Report on the results of your implementation effort: what worked, did not work, what you experimented with etc., and sample outputs with descriptions of what is happening.

For this assignment we will look at four agent systems from the PAManager, since we looked at FileAgent already from assignment 2 we will only focus on the remaining three agents. The first we are going to look at is the SchedulerAgent as shown below:
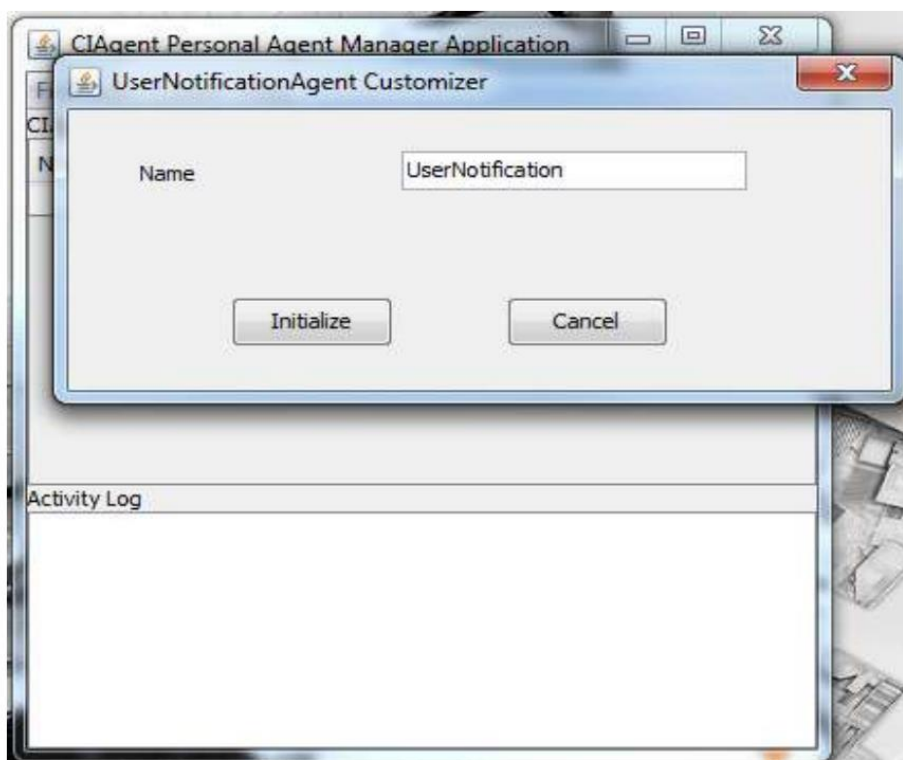

Here we can name the Agent and we can also choose if we want the scheduler to notify an agent once or multiple times we can also specify and time and the interval between each notification. Under Action we have Notify an agent selected, however as you can see above under Parameters seems to be empty and that is because we have not set up an agent for the SchedulerAgent to notify.

The second agent we are going to look at is the AirfareAgent, as shown below:
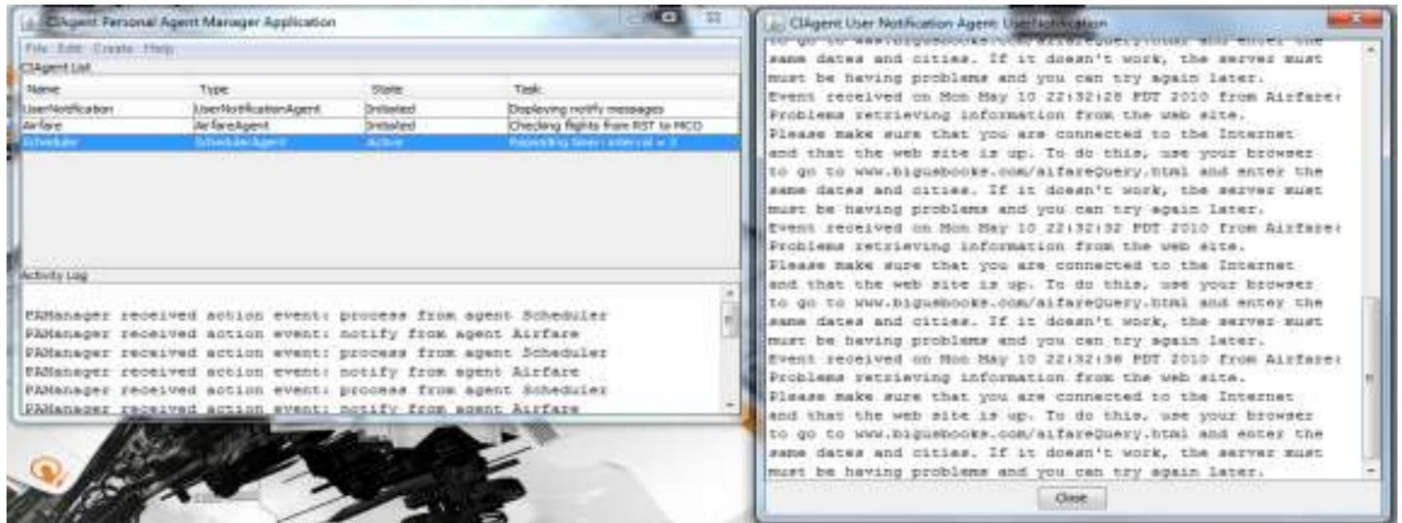
Much like the other agents the user is free to change the name of this agent or leave as the default. We also have other options such as Departure date, Departure city, Return date, and Destination city. The user is free to change any of these options and similar to the previous agent we have the parameters to notify an agent blank as we have yet to create an agent for the AirfareAgent to notify.

The last agent we are going to look at is the UserNotificationAgent as shown below:

As you can see we only have the option to edit the name of the agent. When we went through all three agents we noticed that the Notify an Agent field was blank and that's because the three agent system are dependent on each other to function correctly. With the UserNotificationAgent displaying the notification, the AirFareAgent checks the flight and the SchedulerAgent specify when the other agents to fire at certain times or intervals depending on the users specifications. To start the process we are to run the UserNotificationAgent first, which would then show up on the table. Second we would run the AirFareAgent, this time the parameter is not blank as we can select the UswerNotifcationAgent in the option and we will leave the action string as default (notify). By now we should see two agents initiated on the table. Last we are to run the SchedulerAgent and similar to the AirFareAgent the parameter to Notify an Agent is filled but this time we have two agents to selection and we would like to selection the AirFareAgent. We also set the Action string to process instead of the default. When we run the SchedulerAgent, the agent fired but we receive an error message instead as shown below:

From the message, it seems the AirFareAgent is having trouble searching for the site. This is a problem since the site does not exist anymore. Suggest a solution to fix the problem.