

**CmpE 593 Multiagent Systems**  
**Fall 2014**  
**Assignment 2—Due: 17/11/2014**

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You will implement an agent that will help its user for finding restaurants. The agent will be an extension to the one done in Project 1 in that it will contain a trust later.

**Scenario:** Consider a person who would like to find restaurants based on some criteria. For example, a close-by restaurant that serves kebabs. Based on the specified criteria, she would like to get a list of possible options that are ranked so that she can choose one of them easily. If the user has tried some of the restaurants with these criteria before and has ones that she likes, she can pick one from those. Otherwise, she will consult the people whom she trusts for these particular criteria. After she chooses a restaurant, she rates the restaurant based on her experience.

**Details:** You are to develop an agent to help this person with finding restaurants. Your main task is to develop a model of trust so that the agent can choose whom to ask for advice when choosing a restaurant.

- The ranking should be done based on an estimation of how much the agent would trust a restaurant. In order to estimate the trust value, use the concepts we have discussed in class. Justify your choices.
- Decide on the criteria that a user can specify in performing a search (such as location, price, cuisine, etc.). Your interface should allow a user to specify a search query using these criteria. Try to use Foursquare API to gather real restaurant information based on a given criteria.
- Decide on how you will show the results. Process the information you gather from Foursquare to rank the restaurants.
- Decide on the platform for your agent. Have some kind of interface to show the results.

You will give a demo of your system on the due date and hand in a detailed report as hard-copy. Be prepared to show all aspects of your project. You are responsible for facilitating the demo so make sure you have the necessary software.