

CmpE 593 Multiagent Systems
Fall 2014
Assignment 1—Due: 20/10/2014

You will implement an agent that will help its user for finding restaurants.

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. After she chooses a restaurant, she rates the restaurant based on her experience. It might be possible that there are no restaurants that match the user's criteria exactly. For example, there could be a close-by restaurant that serves tacos but not kebabs. Still, the user would like to know her options.

Technical Details: You are to develop an agent to help this person with finding restaurants.

- Decide on the agent architecture you will use for your agent. Justify your choice.
- 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. 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. Your agent will either run in as a mobile app on a phone or as a Web-based system.

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.