

Project Proposal

Objective:

To design a system that will recommend restaurants to visit based on the user's preferences.

Implementation/Idea:

Generic information of restaurants which are required such as location, cuisines, size of party etc. will be entered by the user or hard coded. A wide array of abnormalities and specific conditions related to the query can be modelled, for example, if the user has an allergy, then all the restaurants that focus their food around the ingredient will be filtered out. The necessary information will be gathered from online sources and people in the industry to create a knowledge base (Note: Statistical information will be used wherever possible). The knowledge base will be converted into a set of statements, facts, defaults and abnormalities to determine the set of restaurants recommended to the user. For example, let's say the user wants to have Mexican food, however, the number of people is set to 4 and budget is set to 20\$ per person. The suggested set of restaurants will include those with proper seating and ambience instead of fast food franchises. The system will be implemented using the s(ASP) language.

Moreover, testing will be done with different users having variety of preferences and restrictions. This will ensure our system can tackle a variety of problems, given the situation arises.

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