**SpotMeal Restaurant Finder Virtual Assistant**

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# ABSTRACT

The aim of the project is to provide a rule-based assistant that can help a user find a restaurant to dine-in. This application is based on a general problem in all major recommendation systems used for finding the best fit restaurant.

# FEATURES:

1. The system asks the applicant to input all the required details for the of an restaurant like Cuisine Type, Meal Type, Preferred Price of the meal and the Rating of the restaurant.
2. It then tries to match the input to any one of the rules defined to predict most suitable restaurant for the user.

# RULES AND DESCRIPTION

There are 4 templates used in the code for the following:

1. User
2. Restaurant
3. Questions Asked
4. Answers Received

**Sample Template**

**Customer**

(deftemplate user

"User info"

(slot name (default "user"))

(slot user-id (default 0)))

There are many rules defined to map the interest of user to the appropriate restaurant which check for all the attributes that the user provides.

# FUNCTIONS

Three functions have been defined to parse the inputs and thus to re-ask the questions if the answers received are not in the proper format.

# FLOW OF THE SYSTEM

This specifies the questions asked and the information gathered from the user for the prediction of the restaurant

* Name of the User
* Cuisine Preference (Indian, Italian, Chinese)
* Meal Type Preference (Breakfast, Lunch, Dinner)
* Price Per Meal (50, 20, 15, 10)
* Rating of Restaurant (5, 4, 3, 2)
* Restaurant Prediction
* Confirmation to proceed with the booking
* Booking confirmation

# SAMPLE RUN:

1. Input:

Cuisine: italian

Meal-Type: dinner

Rating: 5

Price-per-meal: 15

Output:

Tuscany

1. Input:

Cuisine: indian

Meal-Type: breakfast

Rating: 3

Price-per-meal: 10

Output:

Gareeb Nawaz

1. Input:

Cuisine: indian

Meal-Type: lunch

Rating: 4

Price-per-meal: 25

Output:

Curry On Fire

1. Input:

Cuisine: chinese

Meal-Type: dinner

Rating: 2

Price-per-meal: 10

Output:

ChineseHut

# USAGE INSTRUCTIONS

For usage copy and run the Hitman\_AAI\_Project1.clp file.