Online Food Matchmaking System

Problem Statement

We want to create a new business to compete with Online Food and we need to know our user's taste preference, so we can provide the best food recommendations for them. We don't want to do this manually, so we need to create a recommendation system to automate it.

First of all, we need to create a menu that can have an `N` entry. Each entry will have an entry name, price and set of tags to define its characteristics. This entry can either be food or drink, if it's food we need to define if the food is vegan or not, if it's drink we need to define the size, temperature and if the drink contains caffeine or not.

After this, users can see our menu list and they can use our recommender system by a simple command. When a user uses our recommender system, he will be asked a set of questions to help the system find out the user preference.

Example File (expected input and output)

Interactive style:

(input) create_menu 5
(output) created 5 menu

(input) add_food spaghetti 10000 non-vegan sweet sour healthy italy
(output) spaghetti added

(input) add_drink ocha 10000 M cold non-caffeine bitter japan
(output) ocha added

(input) add_food nasi_goreng 15000 non-vegan salty sour healthy indonesia
(output) nasi_goreng added

add_food meat_bun 5000 non-vegan sweet sour healthy china
(output) meat_bun added

(input) list_menu
(output) spaghetti Rp10000 non-vegan tags: sweet, sour, healthy, italy (output) ocha Rp10000 size: M cold non-caffeine tags: bitter japan (output) nasi_goreng Rp15000 non-vegan tags: salty, sour, healthy, indonesia (output) meat_bun Rp5000 non-vegan tags: sweet, sour, healthy, china

(input) give_recommendations (output) "Do you want to drink/eat?" (input) eat (output) "What flavour do you prefer (sweet, salty, sour, bitter, spicy, umami)?" (input) sweet (output) "How many budgets do you have per person (range)?" (input) 1000-99000 (output) "Are you vegan (no/yes)?" (input) no (output) "Do you prefer healthy food or junk food (healthy/junk_food)?" (input) healthy (output) "originality (italy, japan, indonesia, china)?" (input) any

(input) give_recommendations (output) "Do you want to drink/eat" (input) drink (output) "What flavour do you prefer (sweet, salty, sour, bitter, spicy, umami)?" (input) sweet (output) "How many budgets do you have per person (range)?" (input) 1000-99000 (output) "Which size do you want (S/M/L)?" (input) S (output) "Which temperature do you want (hot/cold)?" (input) hot (output) "Do you want caffeine (yes/no)?" (input) no (output) "originality (italy, japan, indonesia, china)?" (input) any

[if recommendation exist] (output)
Recommendations for you: (output)
- Spaghetti (output) - Meat_bun

[if recommendation not exist] (output)
Recommendations for you: (output) No recommendation suits your taste :(

exit

TAG LIST: - sweet, sour, bitter, spicy, salty, umami - healty/junk_food - italy, japan, indonesia, china