Business Problem
Talab

Problem :

- The customer wants to order a certain dish and avoid the hustle of having to choose between multiple restaurants serving the same dishes.
- Low number of customers ordering from a certain restaurant.
- Low job opportunities for delivery guys

Objective: When a customer orders a certain dish. The system picks one restaurant from the customer's favourite restaurants and assign a courier to pick the dish from the restaurant and delivers it to the customer

Inputs & Outputs:

Inputs :-

1. User
    a. List of favourite restaurants
    b. Location
2. Restaurant
    a. List of Dishes
    b. Location
    c. Max orders per restaurant
3. Delivery
    a. Maximum distance to deliver.
    b. Vehicle type.
    c. Current location.
4. Order
    a. Dish
    b. User
5. Vehicle type
    a. Cost per meter.(CPD)

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Output:-

1. Matching orders to restaurants
    a. Order -- restaurant
2. Which delivery guy delivers which orders
    a. Money paid

Features:

1. The dish that the user orders must be made by one of the favourite restaurants in order to get matched.
2. There must be a delivery guy that can deliver the order such that the distance from his location to the restaurant and back to the customer is less than his maximum travelling distance.
3. If the number of orders from a certain restaurant reached the maximum limit it should not receive more orders.

Key metrics :

- Maximizing matchings
- Minimizing delivery costs