Jupiter

Round 1- Coding

In this round, every candidate is expected to solve the given problem by Thursday end of the day. The candidate should send the working solution along with any instructions required to run the program. The problem statement is as follows:

Ground Rules:

1. We want to see how you think as a programmer and how you apply object oriented design.
2. You have to solve the problem in one of these languages: Java, Scala, Python.
3. Your solution should build+run on Linux. If you don't have access to a Linux dev machine, you can easily set one up using Docker.
4. Please note that no database is required here. You can keep all data in memory only.
5. Feel free to use Git version control if you think it makes sense.
6. Please write unit tests.
7. Send us the working solution along with any instructions required to build/run the program.

Problem Statement: Food Delivery System

You need to design and develop a food delivery system like Swiggy, where:

- A restaurant can register itself with the system and a user can create, update, delete, get her profile.
- Users can search for the restaurant using the restaurant name.
- Restaurants can add, update food-menu.
- Users can see the food-menu and place an order to get the food items based on cuisine type.
- Moreover, the following constraint exists: A restaurant has a fixed capacity of processing "*n*" orders at a time. It cannot accept more than "*n*" orders at a time. Value of "*n*" varies for different restaurants.

Bonus: requirements [optional]:

- A user can search for all the orders ordered by her.
- Users can get the order status anytime. Success, Out for Delivery, Delivered, etc.