

# \* chain of Responsibility.

## Design patterns in Din Tai Fung Lab #4.

In this problem, each object (customer, Queue Manager, Table, Table Manager) has certain responsibilities which occurs in a sequence like a chain.

This problem consists of chain-of-responsibility design pattern as every object performs action one after another

First customer sign-up with customer details. Once customer submits the request then queue manager starts with his responsibility like look for availability of table with table manager.

The Table Manager has information about the availability of tables and the customer records provided by queue manager

The table manager performs/looks for table if it is there, then customer gets notified via Queue Manager. The table manager looks for table object for his responsibility.

If no table available then customer will be put in Queue by Queue Manager.

- Now, it's customer's responsibility to "confirm" or "leave" the waitlist. Depending upon the response Queue Manager performs his next responsibility.

- If customer responds with "confirm", Queue Manager books the table else it will look for next available customer in a queue.

- This process consists of the responsibilities which performs in a chain that's why I chose Chain-of-Responsibility Design pattern.