

ITP JS Practice

Week 4

1. Create a food order management system for a restaurant. The web page should have inputs to take the customer name, ordered food name (selectable via dropdown) and paid amount. The *pending orders* should be shown in a table. The restaurant owner can mark an order as *complete*. When marked complete, the order will be moved to another table which holds *completed orders*.

The pending order table should have a Change column, which would say how much change to return to the user if the user paid more than the food cost.

NOTE 1: You are not given any direct mockup of the webpage rather a vague description to begin with. This is intentional. After all, designing solutions from a user's vague description is also an extremely important skill (besides the description is not too abstract at all).

NOTE 2: One STRICT requirement is that there should be a centralized functionality to add, remove or mark orders. All the variables and methods of the function should be inaccessible from outside users.

(For further clarification, think of an *OrderManagement* class in Java. It has its own *orders* array to track pending orders, and also separate methods to *add*, *remove* pending orders. All of these should be private and there should be *getter/setter* methods. You have to do the same thing using **Javascript Closures**. So for example, if a new order is added, first you add the order to the central function and only then do the DOM manipulation as required

Now you may ask: **Why should I design a centralized function when I can bind events and manipulate DOMS directly?** Well, think like this, the order management system might be required from other parts of your program. Suppose another page might want to know what are the pending orders? What do you do then? - If you have a centralized record, you can easily access and manipulate as necessary)