TEAM H

Restaurant Management

Prepared for: OOPS JAVA

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EXECUTIVE SUMMARY

Objective

To create a robust automation software to manage a number of restaurant outlets of a single company. In this each outlet will have a number of cuisines offered and there'll be chefs in each outlet who will be specialised in one or more cuisines. So, when the food is ordered the chef is allocated to cook the food according to the cuisine specialised. And we're having another criteria that each outlet is having a certain revenue expected and we're also calculating that if this criteria is met or not.

Solution

To achieve the need of the question we're creating a number of tables and we're using some OOPS concepts in this software.

Working

- First we're identifying an outlet using a ID number which are unique for each outlet. And this restaurant table has a certain number of informations on it, and those are the branch name, revenue expected and the name of the city it is located.
- Moving on to the next table is customer, So each customer will be allocated with a table in the restaurant and this table has a number. This way the orders will be identified with the table number not with the customer personal info. Because we don't want the customer's privacy to be disturbed. Then he can select a cuisine from the menu available in the table and order the food.
- Next is the waiter table, this table has waiter's SSN number (i.e Social Security Number), this waiter will take the order from the customer and reach to the chef who's specialised with that cuisine. And he also delivers the food from the cook and also delivers the bills which is calculated by the cashier.
- There's another table named 'name', this is where we use generalisation concept. This table has the names of all the staffs (i.e first, middle, last names) in that outlet. Their names can be identified using their SSN's.

- Another table in this, is Cashier. So as usual cashier will also have an SSN like other staffs and he calculated the revenue collected so far and he calculated the bill for each customer.
- There's another option for the customer on how to pay the bill or which method he wants the bill to be paid. It can be either using a card or cash or through internet banking.

OOPS Concepts Used

- We used **generalisation** in the names of the staffs because every staff will have a name, so it can be generalised.
- We're using **dependency** in the tables cause billing can't be there without the customer. So billing is completely dependent on customer table.
- We used **realisation** between waiter and chef, and waiter and cashier cause waiter is the one who's giving the responsibility of work for chef and cashier by passing the values to the respective staff from customer.