

Object Oriented Programming - Final Project

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Project Description:

For the final project, we will create a restaurant reservation system that allows a singular user (in this case, a restaurant employee) to manage all reservations. The user will be able to add reservations, cancel reservations, edit reservations, search for a reservation, and display all reservations. Each reservation will contain information, including name, phone number, party size, dietary restrictions, and date (with time). We will create this system using Java.

Structure

The reservation system will be divided into three classes:

- 1) class Reservation: will be used to create individual reservations
- 2) class Schedule: will be used to manage all reservations
- 3) class Main: enables user interaction with the reservation system.

Class Attributes and Methods

Reservation:

string name
string phoneNumber
int partySize
string dietaryRestrictions
string date

Schedule:

Array of Reservations
addReservation()
cancelReservation()
editReservation()
searchReservation()
displayReservations()

Restrictions

- There may be no more than 3 (≤ 3) reservations at one given time.
- Reservations may be made any day between 1pm and 9pm (inclusive).
- Reservation times will be hourly (i.e. 2:00 pm, 5:00 pm, 9:00 pm)
- No two reservations may contain exactly the same information (i.e. duplicates)