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Reservable.java

```
package interface_;

public interface Reservable {
    void displayReservation();
    String getReservationType();
}
```

DineInReservation.java

```
package model;
   import interface_.Reservable;
       private String customerName;
      private String reservationDate;
      public static int totalReservations = 0; // Static variable
     public Reservation(int id, String customerName, String reservationDate) {
          this.id = id;
           this.customerName = customerName;
          this.reservationDate = reservationDate;
           totalReservations++;
           return id;
       public String getCustomerName() {
           return customerName;
       public String getReservationDate() {
           return reservationDate;
      public void setCustomerName(String name) {
           this.customerName = name;
      public void setReservationDate(String date) {
           this.reservationDate = date;
       public static void showTotalReservations() {
           System.out.println("Total reservasi: " + totalReservations);
       public abstract void displayReservation(); // Abstract method
```

TakeAwayReservation.java

```
public class TakeAwayReservation extends Reservation {
private String pickupTime;

public TakeAwayReservation(int id, String customerName, String reservationDate, String pickupTime) {
super(id, customerName, reservationDate);
this.pickupTime = pickupTime;
}

public String getPickupTime() {
return pickupTime;
}

@Override
public void displayReservation() {
System.out.println("TAKE-AMAY | 10: " + getId() + ", Nama: " + getCustomerName() +

", Tanggal: " + getReservationDate() + ", Waktu Ambil: " + pickupTime);
}

@Override
public String getReservationType() {
return "Take-Away";
}
}

goverride
public String getReservationType() {
return "Take-Away";
}
}
```

```
package service;
import model.*;
import java.util.ArrayList;
    private final ArrayList<Reservation> reservations = new ArrayList<>();
    public void addDineIn(String name, String date, int table, int guests) {
        reservations.add(new DineInReservation(idCounter++, name, date, table, guests));
        System.out.println("Reservasi Dine-In berhasil!");
    public void addTakeAway(String name, String date, String time) {
        reservations.add(new TakeAwayReservation(idCounter++, name, date, time));
        System.out.println("Reservasi Take-Away berhasil!");
        if (reservations.isEmpty()) {
            System.out.println("Belum ada reservasi.");
            Reservation.showTotalReservations(); // Static method call
    public void deleteReservation(int id) {
        if (found) {
            System.out.println("Reservasi berhasil dihapus.");
            System.out.println("Reservasi dengan ID " + id + " tidak ditemukan.");
```

RestaurantReservationSystem.java

```
import service.ReservationService;
        public static void main(String[] args) {
            Scanner scanner = new Scanner(System.in);
            ReservationService service = new ReservationService();
                    System.out.println("\n=== Sistem Reservasi Restoran ===");
                    System.out.println("3. Lihat Semua Reservasi");
                            System.out.print("Nama Pelanggan: ");
                            String name1 = scanner.nextLine();
                            System.out.print("Tanggal Reservasi (YYYY-MM-DD): ");
                            System.out.print("Jumlah Tamu: ");
                            int guests = scanner.nextInt();
                            service.addDineIn(name1, date1, table, guests);
                            System.out.print("Nama Pelanggan: ");
                            System.out.print("Tanggal Reservasi (YYYY-MM-DD): ");
                             String date2 = scanner.nextLine();
                            System.out.print("Waktu Ambil (HH:MM): ");
                            String time = scanner.nextLine();
service.addTakeAway(name2, date2, time);
                            service.viewReservations();
                            break;
                        case 4:
                            System.out.print("ID reservasi yang dihapus: ");
                            int delId = scanner.nextInt();
                            service.deleteReservation(delId);
                            System.out.println("Terima kasih telah menggunakan sistem reservasi.");
                            scanner.close():
                        default:
                    System.out.println("Input tidak sesuai. Harap masukkan angka dengan benar.");
                    System.out.println("Terjadi kesalahan: " + e.getMessage());
```