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ده الباكدج الاساسي بتاع الكود /salma
 ├— Car.java
 — CarStorage.java
— CarRentalService.java
└─ Main.java
cars.txt
1. Car.java
يمثل كائن السيارة
package salma;
public class Car {
  private String model;
  private double pricePerDay;
  private boolean available;
  private String location;
  private String customerName;
  private String bookingDate;
  private int rentalDays;
  private double totalPrice;
  public Car(String model, double pricePerDay, boolean available, String location,
        String customerName, String bookingDate, int rentalDays, double totalPrice) {
    this.model = model;
    this.pricePerDay = pricePerDay;
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this.available = available;
  this.location = location;
  this.customerName = customerName;
  this.bookingDate = bookingDate;
  this.rentalDays = rentalDays;
  this.totalPrice = totalPrice;
}
public Car(String model, double pricePerDay, boolean available, String location) {
  this(model, pricePerDay, available, location, "", "", 0, 0.0);
}
public String getModel() { return model; }
public double getPricePerDay() { return pricePerDay; }
public boolean isAvailable() { return available; }
public String getLocation() { return location; }
public String getCustomerName() { return customerName; }
public String getBookingDate() { return bookingDate; }
public int getRentalDays() { return rentalDays; }
public double getTotalPrice() { return totalPrice; }
public void setAvailable(boolean available) { this.available = available; }
public void setCustomerName(String customerName) { this.customerName = customerName;
public void setBookingDate(String bookingDate) { this.bookingDate = bookingDate; }
public void setRentalDays(int rentalDays) { this.rentalDays = rentalDays; }
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}

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public void setTotalPrice(double totalPrice) { this.totalPrice = totalPrice; }
  @Override
  public String toString() {
    return "Model: " + model +
        " | Price/Day: $" + pricePerDay +
        " | Status: " + (available ? "Available" : "Booked") +
        " | Location: " + location +
        (!available ? " | Customer: " + customerName +
                " | Date: " + bookingDate +
                " | Days: " + rentalDays +
                " | Total: $" + totalPrice : "");
 }
2. CarStorage.java
cars.txt. مسؤول عن حفظ واسترجاع السيارات من ملف
package salma;
import java.io.*;
import java.util.ArrayList;
import java.util.List;
public class CarStorage {
  private static final String FILE_PATH = "cars.txt";
  public static List<Car> loadCars() {
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}

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List<Car> cars = new ArrayList<>();
  try (BufferedReader reader = new BufferedReader(new FileReader(FILE PATH))) {
    String line;
    while ((line = reader.readLine()) != null) {
       String[] parts = line.split("\\|");
       if (parts.length >= 4) {
         String model = parts[0];
         double price = Double.parseDouble(parts[1]);
         boolean available = Boolean.parseBoolean(parts[2]);
         String location = parts[3];
         String customer = parts.length > 4 ? parts[4]: "";
         String date = parts.length > 5 ? parts[5] : "";
         int days = parts.length > 6? Integer.parseInt(parts[6]): 0;
         double total = parts.length > 7 ? Double.parseDouble(parts[7]) : 0.0;
         cars.add(new Car(model, price, available, location, customer, date, days, total));
      }
    }
  } catch (IOException e) {
    System.out.println("Error loading cars: " + e.getMessage());
  }
  return cars;
public static void saveCars(List<Car> cars) {
  try (BufferedWriter writer = new BufferedWriter(new FileWriter(FILE_PATH))) {
    for (Car car : cars) {
```

}

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writer.write(car.getModel() + "|" +
                car.getPricePerDay() + "|" +
                car.isAvailable() + "|" +
                car.getLocation() + "|" +
                (car.getCustomerName() == null ? "" : car.getCustomerName()) + "|" +
                (car.getBookingDate() == null ? "" : car.getBookingDate()) + "|" +
                car.getRentalDays() + "|" +
                car.getTotalPrice());
         writer.newLine();
      }
    } catch (IOException e) {
      System.out.println("Error saving cars: " + e.getMessage());
    }
  }
}
3. CarRentalService.java
الخدمة التي تعرض السيارات وتتعامل مع الحجز
package salma;
import java.util.InputMismatchException;
import java.util.List;
import java.util.Scanner;
public class CarRentalService {
  private List<Car> cars;
```

```
public CarRentalService() {
    this.cars = CarStorage.loadCars();
    if (cars.isEmpty()) {
      cars.add(new Car("Toyota Corolla", 45.0, true, "Riyadh"));
      cars.add(new Car("Honda Civic", 50.0, true, "Jeddah"));
      cars.add(new Car("BMW X3", 120.0, false, "Dammam", "Fatma", "2025-04-23", 2,
240.0));
      cars.add(new Car("Hyundai Sonata", 55.0, true, "Mecca"));
      CarStorage.saveCars(cars);
    }
  }
  public void displayAvailableCars() {
    System.out.println("\n=== السيارات المتاحة ===");
    int index = 1;
    for (Car car : cars) {
      if (car.isAvailable()) {
        System.out.println(index + ". " + car);
      }
      index++;
    }
  }
  public void displayAllCars() {
    System.out.println("\n=== جميع السيارات ===");
    int index = 1;
```

```
for (Car car: cars) {
    System.out.println(index + ". " + car);
    index++;
  }
}
public void bookCar() {
  Scanner scanner = new Scanner(System.in);
  displayAvailableCars();
  try {
    (" :أدخل رقم السيارة التي تريد حجزهام"); System.out.print
    int choice = scanner.nextInt();
    scanner.nextLine(); // Consume newline
    if (choice < 1 | | choice > cars.size() | | !cars.get(choice - 1).isAvailable()) {
       ;(".اختيار غير صالح أو السيارة غير متاحة ♦ "System.out.println
       return;
    }
     Car selectedCar = cars.get(choice - 1);
    System.out.print(" :أدخل اسمك");
     String name = scanner.nextLine();
    (" كم يومًا ترغب في الاستئجار؟") System.out.print
    int days = scanner.nextInt();
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String today = java.time.LocalDate.now().toString();
    selectedCar.setAvailable(false);
    selectedCar.setCustomerName(name);
    selectedCar.setBookingDate(today);
    selectedCar.setRentalDays(days);
    selectedCar.setTotalPrice(selectedCar.getPricePerDay() * days);
    CarStorage.saveCars(cars);
    System.out.println(" 🔽 انتم الحجز بنجاح + selectedCar.getModel());
  } catch (InputMismatchException e) {
    :(".الرجاء إدخال أرقام صحيحة \"System.out.println(" \(\rightarrow\));
  }
}
public void cancelBooking() {
  Scanner scanner = new Scanner(System.in);
  displayAllCars();
  try {
    System.out.print("\hالتي تريد إلغاء حجزهام");
    int choice = scanner.nextInt();
    if (choice >= 1 && choice <= cars.size()) {
      Car car = cars.get(choice - 1);
      if (!car.isAvailable()) {
         car.setAvailable(true);
```

```
car.setCustomerName("");
         car.setBookingDate("");
         car.setRentalDays(0);
         car.setTotalPrice(0.0);
         CarStorage.saveCars(cars);
         (".تم إلغاء الحجز بنجاح ✓ "System.out.println;
      } else {
        ;(".هذه السيارة غير محجوزة 🚫 ")System.out.println
      }
    } else {
      System.out.println(" 🚫 صالح کیر صالح);
    }
  } catch (InputMismatchException e) {
    System.out.println(" 🚫 عير صحيح ;");
  }
}
public void showStats() {
  int availableCount = 0;
  int bookedCount = 0;
  for (Car car : cars) {
    if (car.isAvailable()) availableCount++;
    else bookedCount++;
  }
  System.out.println("\n 📊 ");
  System.out.println("عدد السيارات المتاحة + availableCount);
```

```
System.out.println("عدد السيارات المحجوزة + bookedCount);
}
public void startService() {
  Scanner scanner = new Scanner(System.in);
  while (true) {
    System.out.println("\n--- قائمة تأجير السيارات ---- قائمة تأجير
    System.out.println("1. المتاحة);
    System.out.println("2. "2,");
    System.out.println("3. "إلغاء حجز");
    System.out.println("4. "اعرض جميع السيارات);
    System.out.println("5. "إعرض الإحصائيات);
    System.out.println("6. "خروج");
    System.out.print(""); اختر خيارًا
     int option = scanner.nextInt();
    switch (option) {
       case 1:
         displayAvailableCars();
         break;
       case 2:
         bookCar();
         break;
       case 3:
         cancelBooking();
```

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break;
        case 4:
           displayAllCars();
           break;
        case 5:
           showStats();
           break;
        case 6:
           ;(".شكرًا لاستخدامك خدمة تأجير السيارات 🎂 ")System.out.println
           return;
        default:
           System.out.println(" 🚫 مجددًا مجددًا);
      }
    }
  }
4. Main.java
التشغيل الخدمة
package salma;
public class Main {
  public static void main(String[] args) {
    CarRentalService rentalService = new CarRentalService();
    rentalService.startService();
  }
}
```

## (يوضع بجانب الكود) cars.txt (يوضع بجانب الكود)

Toyota Corolla | 45.0 | false | Riyadh | Ahmed Ali | 2025-04-24 | 3 | 135.0 |
Honda Civic | 50.0 | true | Jeddah | | | |
BMW X3 | 120.0 | false | Dammam | Fatma | 2025-04-23 | 2 | 240.0 |
Hyundai Sonata | 55.0 | true | Mecca | | | |
الو السيارة مش محجوزة، هنخلي الخانات الأخيرة فاضية