

Part 1.1 - Program Description

Mobile Car Wash & Detailing Service Program

Program Goals and Functionality

- This Java program helps a mobile car wash business manage customer bookings. Customers enter their information, choose from five service packages (\$25-\$180), optionally add extra services, and schedule an appointment during business hours (Monday-Saturday, 8 AM-6 PM). The program displays an order summary on screen and saves it to a text file.

Target Audience

- This program is for small mobile car wash businesses and their customers who need a simple booking system. It's also useful for students learning Java programming concepts like classes, inheritance, and file operations.

Program Strengths

- The program has clear menus for easy service selection, validates all user input to prevent errors, uses object-oriented design with classes and inheritance, automatically generates receipts as text files, and prevents Sunday bookings when the business is closed.

Program Weaknesses

- The program only runs in a text console without graphics, doesn't save data to a database so bookings are lost after closing, can't check if a time slot is already booked, requires restarting to make another booking, and stores service prices in the code rather than a changeable file.

Future Improvements

- The program could be improved by adding a graphical interface with buttons and calendars, connecting to a database to save all bookings, checking for scheduling conflicts, allowing customers to view and modify existing appointments, sending email confirmations, and letting business owners update prices without changing code.