

Course Project Part 1 - Documentation

The primary goal of this Business Order and Delivery Program is to provide a seamless platform that allows customers to place orders and schedule appointments with businesses from a variety of services including grocery deliveries, mobile car washes, home cleaning, and pet grooming. This program aims to create an easy and user-friendly connection between businesses and customers' orders and scheduling.

The functionality of this program works as follows. First, the program prompts the user to input their name and then selects 1 of 4 offered services. Customers could choose either mobile car wash, grocery delivery, home cleaning, or pet grooming which then the service would be represented by a concrete class that implements a Service interface. Next, the program asks for a preferred appointment date in the format YYYY-MM-DD and time in HH:MM AM/PM. After the user inputs a time the program would check to validate if it falls within business hours of 8:00 AM to 8:00 PM. Then the order would be successfully placed as the program displays a summary of the order showing the customer name, selected service, appointment date, and appointment time. Followed with a confirmation message. Finally, the order summary is saved to a text file.

The target audience are business owners who offer services but require help with scheduling a time with a client. This program is designed for businesses to use to help with the scheduling process for these different services without the use of expensive and complex systems. It is also useful to customers who are seeking services from these businesses as it provides a simple way to place orders and schedule services all online without needing to leave the house.

The first strength provided in this program is the simplicity. This makes it easy for any user to follow the prompt to place an order and schedule appointments. It also generates an order summary that is saved to a text file, keeping record of customers orders. Another strength is that it ensures that appointment times are valid and follow business operating hours.

Although some of the weaknesses are that although order data history is saved to a text file, this simple text file is not ideal and as a business grows it could become hard to manage and oversee. . Another weakness is that the program relies on the user to enter text-based interactions through the

command line. To truly become more user friendly it should adopt a more interactive and visually appealing interface such as the customer pressing a button to select their preferred service and time.

This program has space for future improvements to expand on its functionality and it's user friendly interface. One main improvement would be a GUI as it would make the program more visually appealing and would be one of the most easiest options for customers to place orders.