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CIS453

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HW8

Methods from Homework 7

Method Name: Cancel Appointment

Class Name: Appointment

Clients (Consumers): Customer, Barber

ID: 1

Associated Use Cases: Payment

Type of Value Returned: Void

Description of Responsibilities: Used to cancel appointment if barber or customer cannot make it

Arguments Received: Appointment

Pre-Conditions: Appointment must be already set

Post-Conditions: Payment must be refunded to both barber and customer

Algorithm Description:

1. If (Appointment==True and cancelAppointment==True)
   1. Appointment = False
   2. refundCustomer()
   3. RefundBarber()
2. Else if (Appointment == False and Cancel Appointment == True)
   1. Return error
3. Else
   1. Pass

Method Name: Set Appointment

Class Name: Appointment

Clients (Consumers): Customer, Barber

ID: 2

Associated Use Cases: Charge card

Type of Value Returned: String

Description of Responsibilities: Used to set an appointment for both the barber and customer at designated date and time

Arguments Received: Date and time

Pre-Conditions: Card must be on file and Availability must be free for both barber and customer

Post-Conditions:

Algorithm Description:

1. If (CustomerAvailability(date,time) == BarberAvailability(date,time)
   1. SetAppointment(Date,Time)
   2. SendEmail()
2. Else
   1. FindNewTime()

Method Name: Send Email

Class Name: Appointment

Clients (Consumers): Customer, Barber

ID: 3

Associated Use Cases: Account

Type of Value Returned: Void

Description of Responsibilities: Used to send a confirmation email to both the barber and customer of their upcoming appointment

Arguments Received: Email

Pre-Conditions: Appointment must be set

Post-Conditions: None

Algorithm Description:

1. If (SetAppointment != Null and (SetAppointment(date,time) - 1day == True))
   1. SendEmail
2. Else
   1. Pass