Name: Cherry Lee H. Jimenez	Date: September 16, 2023
Program and Section: BSCS – 2A	Subject: CS214

ASSIGNMENT 01

SET E

A parking garage in CDO uptown offers its ser vices to both monthly customers, who pay a fixed fee every month, and to visitors, who pay an hourly fee (assume that the hourly' fee is the same regardless of the day or time of day). Each monthly customer gets an ID assigned by the garage, and the garage wants to maintain the customer's basic contact information. The monthly fee paid is negotiated separately for each customer, and it changes periodically; it is important for the garage to maintain a history of the fee details for each customer, The garage has more than 700 parking spots, each of which is equipped with a sensor that recognizes whether there is a car in the spot; in addition, the sensor can read each monthly customer's customer ID card with an RFID reader and, thus, knows which monthly visitor has parked at which spot and when. Each spot is also equipped with a camera that is able to take a picture of each visitor's license plate number; this information is stored to help locate any vehicle that an owner has misplaced. The system should keep track of each time a parking spot is used, including air image of the license plate, start and end times, and a link to the monthly customer, if appropriate.