October 8th

Meeting notes

1. In the initial idea, we proposed 4 modules that need to be implemented.
    a. Assignment system- Kranthi
    Contains an admin class for blocking floors and spots when required. Also this system can change the prices as and when required.
    This contains the system which shows prices to the customers and checks if they want to proceed.
    Assigns each of the arrived vehicles into a specific spot.
    This will also record the time at which the vehicle has entered.

    b. Customer details - Pradeep
    This module will store the information of the customer i.e., their names and phone numbers, to which a digital copy of the receipt in case they lose their physical ticket.

    c. Parking lot - Rithika and Gowtami
    This will contain the instances of all the parking floors based upon the type of the vehicle and it also has a display board which guides the vehicle to their respective floor of parking.
    It contains an array of parking spots which indicate their status and assignment system assigns a spot in this entire parking lot.

    d. Parking floor - Rithika and Gowtami
    This contains the implementation of a particular parking floor. Each parking floor has an array of parking spots which can be initialized as per the requirement and preferences of the admin.

    e. Exit system - Saurav
    This will present the user will the bill that is calculated based upon the duration for which they have parked the vehicle.
    A receipt will be generated with the details of the service for which they are being charged.
    The user could choose to make a card or a cash payment.
    Contains parking attendant class which comes into play if the customer wants to make a cash payment.

2. The route

    Vehicle enters the parking lot
    It is assigned a spot based on the first available spot basis.
    Assignment System which collects the customer details and assigns the spot.

When the vehicle exits, the customer is shown the bill and the details of the customer are erased from the lot's database.

Updated on Oct 25th

3. Contributions

Everyone was involved in every part of the implementation and process of decision making and using the feedback which we obtained from our second discussion.

- Kranthi was involved majorly in the development of the project. He gave us the coding perspective of our decisions and provided the possible list of choices and implemented the ideas. He suggested the idea of introducing randomness to simulate some cases where the transaction fails. He also suggested the use of databases for the record of details.

- Gowtami started with the initiative of the type of modules that needed to be implemented. She helped us in making decisions like whether we had to use interface or concrete classes. She also gave the idea of having an abstract bank with input validation.

- Rithika was involved in the decision making process. One of the nice ideas suggested by her was the usage of regex for input validation. Rithika also helped in creating the Flow diagram and preparing this report.

- Saurav helped in initiating the implementation of the exit system and suggested the idea of using timestamps for calculation of bills.

- Pradeep helped us with the general idea and architecture of our implementation. He also helped us in giving some perspective and practical suggestions.