CSC186: OBJECT ORIENTED PROGRAMMING

GROUP PROJECT: PROPOSAL

Group	:	JCS1102A
Lecturer's Name	:	ZURIATI BINTI ISMAIL @ KHORI

Project Title	:	Bus ticket reservation
Group Members	:	1. Aliff Wafiuddin bin Mohd Azizul Kyusyairi (2021611452)
		2. Nur Ain binti Mohd Sofian (2021631594)
		3. Muhammad 'Irfan bin Rahmat (2021877566)

1. INTRODUCTION

Our group has been assigned to develop an information system. The main idea of this project is to develop a system for bus ticket reservations to make it easier for users for have a trip or vacation.

This system will ask users to fill in their details such as name, ID, address, and phone number. Besides that, customers can purchase their ticket by entering the quantity of ticket that they want to buy, search buses, view schedules and reserve seats. All those details will be stored and displayed at the end of the program. For the calculation process it will run based on the total of the ticket that the user has entered. Discount also included in this system. This system will make it easier for customers and have a convenient environment to buy a ticket.

2.OBJECTS WITH ATTRIBUTES

Class	Customer
Attributes	Customer's name, customer's ID, age, address, phone number
methods	Purchase ticket, cancel ticket, make payment, search bus, reserve seat, view schedule

Class	Ticket
Attributes	Ticket ID, Customer, reservation date, reservation time, seat number, ticket price, destination, status
methods	Cancel ticket, update ticket, calculate ticket

3. LISTS OF PROCESSING

I. Customer's ticket registration
II. Count the number of tickets for different destinations.
III. Count the maximum and minimum number of tickets that each of the customers bought
IV. Calculate the price of the tickets for different destinations:
- without discount
- discount
    - Children: 20%
    - Elder: 25%
V. Price/Name/Age sort
- bubble sort
- Sort the destination's distance (far and the nearest)