



UNIVERSITI TEKNOLOGI MALAYSIA

JOHOR BAHRU

81300, JOHOR BAHRU

JOHOR

SCHOOL OF COMPUTING

FACULTY OF ENGINEERING

GROUP ASSIGNMENT

MINI PROJECT OOP

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Course Code & Name	SCSJ2154 Object Oriented Programming	
Lecturer	Dr. Zuraini binti Ali Shah	
Submission Date	25 June 2020	

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PROCESS AND RECORD TO COMPLETE MINI PROJECT

No	Date /Week	Activity
1	26 May	• Discuss about the synopsis and case study that we want to choose • Draft the class diagram and list the attribute
2	27 May	• Upload the synopsis and topic that covered in the Google form of phase 1
3	31 May	• Discuss properly about the class diagram and list of attributes • List the superclass and subclass • List the menu that we use in program
4	4 June	• Make a UML Diagram properly and insert attribute that we use • Proceed with coding
5	7 June	• Make a changes in UML Diagram • Proceed with coding
6	10 June	• Discuss about interface that implement in UML Diagram • Proceed with coding
7	13 June	• Make changes in case study and delete Enum from list of topic covered • Proceed with coding
8	17 June	• Compile and update report
9	20 June	• Rearrange the report project due to change a little bit at list of topic covered
10	24 June	• Complete the coding and update the report
11	25 June	• Presentation project in front of lecturer using Zoom platform

BUS TICKETING MANAGEMENT SYSTEM

PHASE 1

Case study and synopsis

Bus Ticketing Management System is a system for managing bus ticket systems such as bus ticket bookings. When booking the ticket, users can fill in the personal information and choose which bus they want as each bus has a different price. The bus is also the only one-way bus to Kuala Lumpur to Johor Bahru. The system has two different types of Bus Company to purchase that is Mayang Sari and Orkid Malaysia. This ticket management system also has two types of passenger and both of them have different rate of price which is Normal and Handicapped. The system can also display the customer list who booked a bus ticket and display the ticket list a customer bought in the system. This system has been used to store the current status of the ticket management (customer details, booked tickets, tickets available) in a file when the user is still in the system, the old details are not lost.

Topics covered in the application is:

- Array List
- Class and Objects
- Inheritance
- Interface
- Abstract
- User defined exception

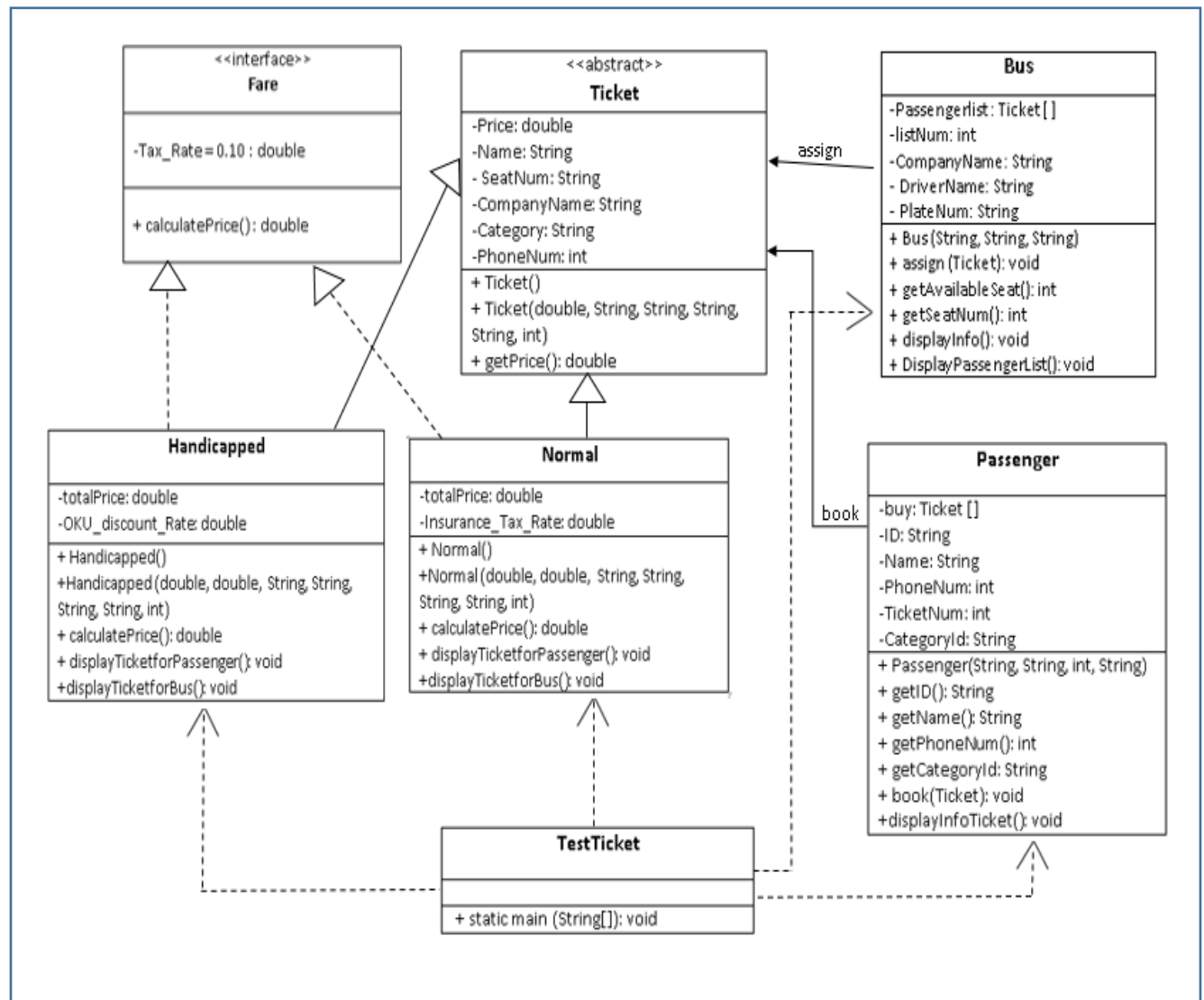
PHASE 2

List of user requirement or menu

- 1) Book ticket
- 2) Display ticket available
- 3) Display Bus info
- 4) Display Payment
- 5) Exit

PHASE 3

Class diagram



PHASE 4

Demo of Bus Ticketing Management System

1) Interface menu for Booking Ticket System

```
***** BOOKING TICKET BUS KL-JB *****
1. Book Ticket
2. Display ticket available
3. Display bus info
4. Display Payment
5. Exit

Please enter your choice (1-5) :
```

2) Menu 1, passenger fill in the details

```
***** BOOKING TICKET BUS KL-JB *****
1. Book Ticket
2. Display ticket available
3. Display bus info
4. Display Payment
5. Exit

Please enter your choice (1-5) : 1

Enter passenger ID: 1
Enter passenger Name: maria
Enter passenger phoneNum: 0183734182
Enter your category(Normal - 1/ Handicapped - 2): 1

Which bus you want to book?
1. Mayang Sari - RM50.00 (Available seat 30)
2. Orkid Malaysia - RM48.00 (Available seat 30)
Your choice: 1

Your original ticket price is: RM50.0
Your total ticket price is: RM57.5

Returning to main menu...
```

3) Menu 2, display ticket available

```
***** BOOKING TICKET BUS KL-JB *****
1. Book Ticket
2. Display ticket available
3. Display bus info
4. Display Payment
5. Exit

Please enter your choice (1-5) : 2

Available ticket for:

Mayang Sari: 29 tickets still available!

Orkid Malaysia: 29 tickets still available!

Returning to main menu...
```

4) Menu 3, display passenger name on the bus

```
***** BOOKING TICKET BUS KL-JB *****
1. Book Ticket
2. Display ticket available
3. Display bus info
4. Display Payment
5. Exit

Please enter your choice (1-5) : 3
Company name: Mayang Sari
Driver name: Mohd Ali
Plate number: JNF1045

Name      Category      Phone number      Seat number      Price      Total price
1maria    Normal            183734182         MY0              50.0       57.5

Company name: Orkid Malaysia
Driver name: Ahmad Abu
Plate number: JRT7065

Name      Category      Phone number      Seat number      Price      Total price
1kilaa    Handicapped     194748392         ORM0             50.0       60.0

Returning to main menu...
```

5) Menu 4, display the information for passenger

```
***** BOOKING TICKET BUS KL-JB *****
1. Book Ticket
2. Display ticket available
3. Display bus info
4. Display Payment
5. Exit

Please enter your choice (1-5) : 4

ID: 1
Name: maria
Phone number: 183734182
Category: Normal

Name      Category      Phone number      Company name      Seat number      Price      Total price
1maria    Normal          183734182         Mayang Sari       MY0              50.0       57.5

ID: 2
Name: kilaa
Phone number: 194748392
Category: Handicapped

Name      Category      Phone number      Company name      Seat number      Price      Total price
1kilaa    Handicapped    194748392         Orkid Malaysia   ORM0             50.0       60.0

Returning to main menu...
```

6) Menu 5, exit the system

```
***** BOOKING TICKET BUS KL-JB *****
1. Book Ticket
2. Display ticket available
3. Display bus info
4. Display Payment
5. Exit

Please enter your choice (1-5) : 5
Thank You..

Returning to main menu...
Press any key to continue . . .
```