



اُونِيُوَرْسِيْتِي تِكْنُوْلُوْجِي مَآرَا  
UNIVERSITI  
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UITM SEGAMAT, JOHOR

FACULTY OF COMPUTER AND MATHEMATICAL SCIENCES

CSC248: FUNDAMENTAL OF DATA STRUCTURES

PROPOSAL OF GAMING SERVICE GAMEVERSE

|                        |   |                           |
|------------------------|---|---------------------------|
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## 1. INTRODUCTION

Entertainment Industry:

Mr. 'Irfan is a business owner of GameVerse which is a gaming center. He plans to organize his customer information and develop an application for it. Below is the information given by Mr. 'Irfan related to his issues in keeping his monthly customer record:

He has a list of customers and gaming platforms to be recorded. The gaming platforms can be rented in two categories (G - Gaming PC and C - Consoles). He recorded his gaming platform with the following details which are the gaming platform ID and category. Next, he will record his customer's ID name, phone number, duration spent on the gaming platform, and payment detail (amount of payment and payment type). Each payment transaction will be recorded and the status of gaming platform will be updated whether can be accessed or cannot be accessed. After the data has been collected and stored at the end of the month, he needs to process the information and display it in a form of a report automatically.

After the discussion, we analyze his requirement and these are the processes we propose to Mr. 'Irfan to be applied in the application.

The application will be able to:

- 1) Store the customer's information in the application.
- 2) Remove certain records of the customer if any cancellation of package chosen was made.
- 3) Search and display the customer's details if customer did not make any payment transaction.
- 4) Update status of gaming platform if they have made payment.
- 5) Split the record for customers who choose to play games on PC gaming platform or consoles platform.
- 6) Calculate the total of payment for each category which is PC gaming and consoles

## 2.OBJECTS WITH ATTRIBUTES

|                |  |
|----------------|--|
| Object Propose | Customer   |
| Attributes     | customer's ID, customer's name, payment amount, payment type, platform type, phone number, duration booked, package, date booked |
| Methods        | accessor method, mutator method process method and display method.   |