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| **GROUP 03** |
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| Can Tho, November 2019 |

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| **Design Plan:** | **Document name: Problem Definition Document** | **SWP/Form No.1** |
| **Effective Date:** | **Version: 1** | **Page No** |

**Problem definition of Milk Tea Shop**

Milk Tea Shop is a milk tea shop specializing in selling milk tea, refreshing drinks, fast food. The main customers that it serves is students. When coming to the shop, customers will order food and have their own seat that they like then enjoy their drinks.

But recently, the number of customers is increasing. The shop manager feels difficult to record and manage the invoice and revenue of the shop and employees cannot write lots of order bill every day. So, they want to have a system can help them to manage their shop, help customers cant order bill simpler and employees don’t do too much work.

The system will provide functions:

* Customer can order food, select their table that they like then pay at cashier
* Customer can register and log into system or enter discount code to receive the offer from shop
* Employee and manager must log in to use system.
* Employee can manage order bills in every table foods, manage status of table food, and food
* Manager can manage bills, manage employee, account and income of shop.
* Manage include view insert, update, drop action. But employee cannot drop or update anything. The order bill can not drop when customer has paid. It can only be canceled when in the order process

Beside that:

* The system must run smoothly, without errors from the system side.
* Fast execution speed, serving the crowded customer flow

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| **Design Plan:** | **Document name: CRS** | **SWP/Form No.2A** |
| **Effective Date:** | **Version: 1** | **Page No** |

# **List of inputs to system**

* Information
  + Id
  + Full name
  + Gender
  + Birthday
  + Address
  + Phone
  + Email
* Account
  + Id
  + Name
  + Password
  + Information Id
* Roll
  + Id
  + Name
* Account Roll
  + Id
  + Account Id
  + Roll Id
* Table Food
  + Id
  + Status
  + X
  + Y
* Category
  + Id
  + Name
* Food
  + Id
  + Name
  + Category Id
  + Status
* Discount
  + Id
  + Name
  + Sale
* Bill
  + Id
  + Table Food Id
  + Account Id
  + Discount
  + Check in
  + Checkout
* Bill\_details
  + Id
  + Bill Id
  + Food Id
  + Quantity

# **List of output expected from the system**

* Display information about customer
* Display information about employee
* Display information about food, table food
* Display information about bill and bill details

# **Overview of processes involved in the system**

* Manage income of shop
* Manage information of food, bill, table
* Manage employees and customers

# **Hardware and software required for implementing the project**

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|  | Hardware | Software |
| Client | * CPU Core i3 3th or higher * HDD 256gb or higher * Ram 4gb or higher | * Window 10 * Java 11.0.4 * SQL Server 2016 |

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| **Design Plan:** | **Document name: CRS/ Customer Acceptance Criteria** | **SWP/Form No.2B** |
| **Effective Date:** | **Version: 1** | **Page No** |

# **Customer’s Acceptance Criteria**

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| S.No | Customer’s Acceptance Criteria |
| 1 | Display information detail of bill, order bill, foods |
| 2 | Employee can |
| 3 | Employee view order bills in every table foods, , and foods |
| 4 | Employee view order status of table food |
| 5 | Employee view order status of food |
| 6 | Manager can view insert, update, drop employee |
| 7 | Manager can view insert, update, drop account |
| 8 | Manager can view insert, update, drop employee, account and |
| 9 | System has revenue statistics function of shop |
| 10 | Customer can order food and select table food |

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| **Design Plan:** | **Document name: Project Plan** | **SWP/Form No.3** |
| **Effective Date:** | **Version: 1** | **Page No** |