

**Akhil Montrose: 81788**

**SFEN3005 Project**

**Lecturer: Mr Emile Ramlal**

## Description

The system that is to be implemented is to introduce a better way for buying baked goods from the local bakery. It will not be accurate to say that they have a file based system but it is introduced to allow the customer to buy good readily while easing up the stress from the employee.

The customer would be able to go online and browse the goodies that are offered by the bakery and make an order. Then they would have an option to have it delivered to their home or they can go and collect the goods at the bakery (thus eliminating the waiting time in the bakery). This does not completely eliminate ordering pastries by walking into the store but opens up new avenues for the customer as well as expanding the business.

The employee also benefits from the new system. The employee will be able to login and view orders that were made by customers and then carry out that order. They will also be able to clear the order after it has been delivered/received by the customer or upon the customer's request. Payments will be made when they are delivering the product or when the customer enters the establishment.

Finally the system will be built using Visual Studio, using Visual Basic as the language and the database that will be holding the data for everyday business transactions will be Microsoft SQL Server Management System.

(N.B. on page 20 there is a manual of how the system works as well as how to navigate through the Visual Studio, so see for more info.)

## Functional Requirements

The functionalities are divided according to the user's privileges to the system:

### Customer:

- Create an order.
- View the offered pastries.
- View the order.

### Employee:

- Login
- Create/Search/View/Update/Delete Orders
- Create/Search/View/Update/Delete Customer
- Create/Search/View/Update/Delete Employee.
- Create/Search/View/Update/Delete Pastry

## **Non-Functional Requirements**

The non-functional requirements of the system include:

- The system should be in an enclosed room with Air Condition. The system will be accessible to all employees so there will be more than one system.
- The location of the system is very important.
- The processing speed of the system. How queries run in real time.
- Fault tolerance.
- Security: This is to ensure that unauthorized persons cannot enter into a room with the systems and tamper with the software (passwords, encryptions)
- Backups for when electricity is out (generators).
- e user will be able to delete data from the database on specific tables