

JAYA JUSCO SMS SYSTEM

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JAYA JUSCO SMS SYSTEM

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This report is submitted in partial fulfillment of the requirements for the
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2008

DECLARATION

I hereby declare that this project report entitled

JAYA JUSCO SMS SYSTEM

is written by me and is my own effort and that no part has been plagiarized
without citations.

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DEDICATION

A special dedication goes to my beloved parents Mr. Ibrahim Bin Puteh and Mrs. Zaharah Binti Ahmad because giving support in completing my final year project which is entitled Jaya Jusco SMS System (JJSS).

I also would like to dedicate to the people who help and support direct or indirect in finishing my project successfully.

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ABSTRACT

The Jaya Jusco SMS System (JJSS) is developed mainly for Jaya Jusco Shopping Complex (JJ), to manage the member renewal membership and member information. It is an SMS system which only can be access or valid in Malaysia. The JJ members can retrieve information about JJ event or about their current point via SMS. The SMS will be processed by the system automatically and each member will receive the reply SMS about their request status. Furthermore, the authorized user's account will be maintained by the administrator. The member record will be managed by two main users such as administrator and management staff. An analysis study has been done based on the current system and all the problems statements and requirements have been identified. The interfaces for JJSS have been designed according to the requirement and needs of the current market. This Jaya Jusco SMS System will help to improve the performance of current situation and overcome the problems that arise nowadays.

ABSTRAK

Jaya Jusco SMS System (JJSS) telah dibangunkan khasnya untuk Pasaraya Jaya Jusco untuk menguruskan pembaharuan keahlian dan maklumat ahli. Sistem ini boleh diakses melalui SMS dan hanya sah untuk digunakan di Malaysia. Para pengguna boleh mendapat maklumat mengenai jadual dan mata semasa menerusi sistem SMS ini. SMS yang telah dihantar akan diproses dan dibalas secara automatik oleh sistem. Tambahan pula, pentadbir mempunyai kuasa untuk menguruskan maklumat ahli yang lain. Selain daripada itu, maklumat ahli akan diurus oleh dua pengguna yang penting iaitu pentadbir dan staf pengurusan. Satu analisa telah dijalankan terhadap sistem semasa untuk mengenalpasti keperluan dan pernyataan masalahnya. Antaramuka bagi JJSS telah direka berdasarkan keperluan dan permintaan pasaran semasa. Sistem ini diharap dapat membantu dan menyokong dalam meningkatkan prestasi sistem semasa dan mengatasi masalah yang wujud pada masa kini.

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LIST OF ABBREVIATIONS

| | |
|-------|---|
| ERD | Entity Relationship Diagram |
| DBLC | Database Life Cycle |
| DBMS | Database Management System |
| DDL | Data Definition Language |
| DFD | Data Flow Diagram |
| FK | Foreign Key |
| GSM | Global System for Mobile Communications |
| JJ | Jaya Jusco |
| JJSS | Jaya Jusco SMS System |
| OS | Operating System |
| PK | Primary Key |
| PC | Personal Computer |
| PSM | Projek Sarjana Muda |
| RAD | Rapid Application Development |
| RAM | Random Access Memory |
| RDBMS | Relational Database Management System |
| RUP | Rational Unified Process |
| SIM | Subscriber Identity Module |

SQL Structured Query Language

SMS Short Messaging Service

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CHAPTER I

INTRODUCTION

1.1 Project Background

In this project, Jaya Jusco SMS System (JJSS) gives Jaya Jusco (JJ) a quick and simple way of reaching very large numbers of registered members throughout SMS technology, compared to other traditional methods such as normal mail, board advertisement and pamphlet distribution. This proposed system offered very efficient and faster.

One of the best ways is to build the system that can give the information faster than before. This proposed system is the enhancement for the current system. JJ members can request upcoming events and renew the membership just by sending the SMS through their mobile phone at home and save their time. The system is capable to send SMS too many recipients in one time automatically.

1.2 Problem Statement

There are several problems that identified in the current system. The proposed enhancement system can prevent and overcome the existing problems. The problems of the system as follows:

- i. Current delivery of information or promotion is not adequate.
 - Problems occur when the customer did not receive earlier information about the up coming promotion and special offers of the shopping complex. This is because of the traditional methods are not convenient anymore.
- ii. Renewal membership requires members to do at counter manually.
 - Before this, Jaya Jusco will send the remainder to members to renew their membership via letter. Members can only renew their membership at information counter at any Jaya Jusco branch. To renew the membership, member needs to pay RM12.
- iii. Only can check point through receipt or internet.
 - Before this, members can check their point after they buy and receive receipt. Members also can manually check their point through internet.

1.3 Objective

The objectives of the project are to develop a system that can automatically send SMS about the up coming promotion and special offers of JJ to JJ members. The system will be functions:

- i. To give the earlier information about the up coming promotion and special offers of the shopping complex via hand phone.
 - Hand phone are carried by users wherever they go. Thus when they receive SMS message promoting a marketing offer from Jaya Jusco, they cannot resist checking it out and they will do this within seconds, and sometimes within a split second.
- ii. To develop a system that member can check their current point receives a notification of renewal membership through SMS.

- The SMS notification will be sent automatically to the members before the expired date of the member card. The notification will send to member 1 week in advance. Members can renew the card through SMS. To renew the card, a member needs at least 300 points for the current points.
- iii. To develop a system that members can request information or promotion based on the selected month.
 - This system not only JJ can send message to their members but their members can request from JJ what are the next event.

1.4 Scope

The system is enhancement of the current system and build as a stand alone system that is capable to send and reply SMS to JJ members. The specific scopes for this system are:

- i. Registered JJ members
 - Request events or promotions by selected month or period.
 - Request renewal membership via SMS by deducts the point.
 - Check current point.
- ii. Administrators / JJ Staff
 - Add/delete member's information.
 - Add/delete events information.

The modules that will include in the Jaya Jusco SMS System are:

- i. Login and password function to access the system.
- ii. Send events or promotions by selected month or period.
- iii. Send renewal membership notification by deduct the member point.
- iv. Add/delete member's information.

- v. Add/delete events information.
- vi. Send broadcast SMS to all members automatically.
- vii. Reply SMS automatically.

1.5 Project Significant

This Jaya Jusco SMS System (JJSS) which could send and handle request automatically. This system will show the better performance from the current system. This system will ease the members and administrators to get a single point of access.

For Jaya Jusco organization perspective, they can serve their members with faster and effective delivery information. With this system, customers will receive new information or event about the Jaya Jusco via the SMS. It also can gain profit with this system.

For the members, they will use SMS technology. They could receive and request information anywhere and anytime without visit customer counter manually. This will save the member's time.

1.6 Expected Output

The expected output of this project should fulfill the objectives that stated earlier in this chapter. At the end of this project, SMS System for Jaya Jusco will be developed. There will be a complete system ready to serve. This Jaya Jusco SMS System will help to improve the current situation and overcome the problems which arise nowadays.