SANDAKAN PUBLIC HALL
MANAGEMENT SYSTEM

GRACE YAIT LINGGOU

FACULTY OF COMPUTING AND INFORMATICS
UNIVERSITI MALAYSIA SABAH
2015
ABSTRACT
Sandakan Public Hall Management System was a web-based reservation system that was developed to facilitate the reservation management for several public hall that located around the Sandakan area. The main objective for this project is to provide an online medium and facilitate the client to do reservation through online reservation system. Secondly, to facilitate Sandakan Municipal Council by generating the statistical report for public hall usage and income report annually and monthly. Thirdly, to provide information for client about the public hall reservation in order to facilitate the reservation processes. The public hall is entirely supervised by Sandakan Municipal Council organization. In this project, the system also provides public hall description such as the reservation rental cost, capacity, location and hall equipment booking. Besides that the system is able to generate reservation receipt after reservation status was approved. The selected System Development Life cycle (SDLC) method for this project was RAD – Prototyping development model. Thus, this project involved the interaction with user and feedback was collected to redesign and reimplement the system to meet the user requirement.
CHAPTER 1
INTRODUCTION
1.1 Introduction

Chapter 1 introduces the overview and general background of this project with the title 'Sandakan Public Hall Management System'. This project is about a reservation system that developed to manage the public hall reservation that put under the supervision of Sandakan Municipal Council organization.

Literally, this chapter can be divided into six different sections. The first section is the general review and introduction of this chapter. Then, the second section would be the problem background that explained and provides the reasoned regarding the need of this project. Section three is the problem statement that summarizes and discussed the current problem encountered. Section four states the objective of this project to solve the problem faced in problem statement. After that, the fifth section explained the scope of this project that contains user modules and project modules. Finally, the final section concludes the organization of the report.

The purpose of this project is to facilitate Sandakan Municipal Council to manage the public hall reservation. Thus, the Public Hall Management System was developed to help the Sandakan Municipal Council client to make a public hall reservation for any indoor occasion either formal or informal event. Besides that, client can make a reservation on the halls equipment such as tables, fans, chair and other equipments needed for the events.
1.2 Problem background

Sandakan Municipal Council was a government organization that has been given mandate to supervise and administer the Sandakan area and also the residents. Other than that, the organization also aims to manage the Sandakan resident welfare and also in charge in the development of the Sandakan City. Thus, Sandakan Municipal Council has provides a lot of facilities especially for the Sandakan residents. For example such as dry and wet market, Tamu, Public Hall, parking and so on.

Sandakan Public hall was build in order to prepare for small and large event such as exhibition event, weddings, competition, sports and many more. Therefore, Sandakan public hall reservations are open to anyone to organize an event that needs an indoor facility. There were several public hall located around Sandakan and those halls were manages and guarded under Sandakan Municipal Council. Todays, they were four halls which are 'Dewan Masyarakat Sandakan', 'Dewan Sibuga Batu 5', 'Dewan Sibuga Jaya Batu 8' and lastly 'Dewan Sri Gum-Gum'. Continue by that, several staff was placed in each public hall that responsible to handle the reservation process and the public halls welfare.

Currently, Sandakan Municipal Council was practicing a manual method for reservation process. Client who wanted to make reservation can either download reservation form from Sandakan Municipal Council official website or come to ‘Dewan Masyarakat Sandakan’ (center) then handed it to the staff in charge (Public Hall Clerk – Mrs. Aisah). Then, they need to fill in the reservation forms and then wait for reservation approval that later would be informed by the public hall clerk. Problem occur when they are many reservation forms, related document that need to be store using a filing system .Therefore, it is very troublesome to search and find a specific forms when many reservation would take place from day-to-day.

On top of that, the description about the public halls such as rental cost, location, capacity and halls equipment booking are not stated clearly by the organization thus make it harder for client to make a reservation. On top of that, in order to do reservation, client needs to come to the "Dewan Masyarakat Sandakan” (center) that located at the center of Sandakan City that would which takes about 25 minutes to travel and public hall clerk receive a lot of complaint that the public hall reservation center was too far. Lastly, the report for public hall income also was calculated manually by public hall clerk.
1.3 Problem Statement

i. Client need to travel about 25 minutes to the center.

Currently, in order to do reservation client itself needs to come to the “Dewan Masyarakat Sandakan” (center) which takes about 25 minutes to travel. Thus, a lot of client complaint that it was too far because client had to travel to the center for about two times to through the old method. First, to fill in the form, send it and wait for approval within 24 hours and second times is the payment process.

ii. The public hall income report was produce regularly but none for public hall usage statistics.

The report for all Sandakan public hall income was prepared regularly. Even though the income report was practically produce but the statistics for the public hall usage was never being produced.

iii. Public halls rental cost, location, capacity and hall equipment booking is not stated clearly.

The description regarding public halls rental cost, capacity, location and halls equipment booking such as tables and chair, fan, red carpet and other equipments for the whole Sandakan public halls supervised by Sandakan Municipal Council were not stated clearly as client need to either pay a visit to the center or make phone call asking for the details.

1.4 Objectives

The objectives for this project are:

i. To provide an online medium and facilitate the client to do reservation through online reservation system.

ii. To facilitate Sandakan Municipal Council to generate report for public hall usage statistic and income report annually and monthly.

iii. To provide information for client about the public hall reservation in order to facilitate the client to make reservation.
1.5 Scope
In this section, it consists of two major scopes which include user module and project module. User module explained about the type of user involve and also their roles in this system while project module summarizes the modules of Sandakan Public Hall Management System.

1.5.1 User Module
User module consists of three main users that comprises of IT Officer (Administrator – Mr.Abu Hj Lele), Staff (Public Hall Clerk – Mrs. Aisah) and customer (Guest).

1.5.2 Project Module

a) Reservation processes and status
Client was able to view on the public hall description (Public hall rental cost, location, capacity and hall equipment booking). Before reservation form can be submitted client also able to check and reserve available reservation date. Sandakan Public halls reservation form includes the reservation and personal details. The reservation information includes chosen public hall, purpose (event), date and time. While personal details include name, address, identity card number and contact number. Then, the reservation status need to be confirmed by the Public hall Manager (Mrs. Vianny) or the staff (Public Hall Clerk – Mrs. Aisah) and client could check reservation status through the system.

b) Manage hall equipment and public hall
The hall equipment and public hall information updates would be handled by public hall clerk itself in Sandakan Municipal Council. The processes involve the adding, edit and delete the hall equipment and public hall information.
c) Halls Equipment booking

Halls equipment booking such as tables and chair, fan, red carpet and other equipments can be booked after reservation and personal details has been fill in. The equipment can either be booked during the reservation process or separated. The booking request was done by client while the staff would responsible to approve the request.

d) Generate reservation receipt

After reservation status was approved client need to print out the receipt which contains the total payment. Then, client can make their payment to the ‘Dewan Masyarakat Sandakan’ (center) together with the receipt as a proved.

e) Generate income report

The system will generate the statistic report regarding public halls used and also the income report either monthly or annually. Then, the report generation would only available to administrator and staff only.
1.6 Organization of Report

This section basically summarizes the content of each chapter present in this report. Overall, this report contains 7 chapters.

1.6.1 Chapter 1: Introduction
This section introduces the project purpose and background. This chapter includes the introduction, problem background, problem statement, objectives, project scope and organization of report.

1.6.2 Chapter 2: Literature Review
This chapter review on the existing system, concepts and methods comparison that are related to this project. It also includes the techniques and concepts that will be applied on the project.

1.6.3 Chapter 3: Methodology
This chapter reports approaches and overall framework taken in building the Public Hall Management System. It would also comprise of the techniques that will be applied in the design and implementation of the project. This chapter also contains justification regarding the methods used and software and hardware requirements.

1.6.4 Chapter 4: System Analysis and Design
This chapter overall explained about the system analysis and design for Sandakan Public Hall Management System. This chapter also includes the system architecture and system requirements that follow the user requirement.

1.6.5 Chapter 5: Implementation
This chapter reports the result of this project in details where screenshots was shown to show the workflow of this project.

1.6.6 Chapter 6: Testing
This chapter reports on several types of testing used to the system. Therefore, each module for this project is tested and then the result would be analyzed.
1.6.7 Chapter 7: Conclusion and Future works

This chapter overall summarizes the project and also the result. In this chapter, the limitations, advantages and recommendation for the future works also included.