

ONLINE AUCTION AND DONATION SYSTEM

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA

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This report is submitted in partial fulfillment of the requirements for the
Bachelor of Computer Science (Database Management)

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ABSTRACT

This Final Year Project (PSM) final report was written as to fulfil the requirement for completing the program of Bachelor of Computer Science (Database Management) with Honor in UTeM. Online Auction and Donation System (OADS) is a system that aimed at taking to the fingertips of aspiring bidders and donates. Furthermore, this system also acts as an open system of both buyers, seller and donator can come together to exchange and giving their products. Objective of OADS is to develop an online auction and donation system that giving the opportunity to all registered user participate in any auction and donation event and to automate the manual auction and donation system and reduce the amount of paper used during the transactions and lastly to build an online auction and donation system that provide a friendly trading community to bid and donate products online with a fair price and genuine products. This system is built up with the modules such as bidder, seller, buyer, donators and administration. Every registered users can take part in the auction and donation. This system is built to overcome some problems that occurs to the old manual auction and donation system that are problem with public auction and donation event that limited to a certain public participants, the management of auction and donation system that involve a lots of paper work and done manually and last but no least time consuming and very cumbersome for all the manual system to track the bidder, seller, buyer and donators information and payment details. As a conclusion, this Online Auction and Donation System (OADS) are able to contribute and provide a great benefit to the users

ABSTRAK

Laporan akhir Projek Sarjana Muda (PSM) ini telah ditulis sebagai memenuhi keperluan kerana menyiapkan program Sarjana Muda Sains Komputer (Pengurusan Pangkalan Data) dengan Kepujian di UTeM. Lelongan dan Derma Atas Talian (OADS) ini ialah satu sistem yang bertujuan untuk mendekatkan para pembida dan penderma kepada teknologi yang mudah di hujung jari sahaja. Tambahan pula, sistem ini juga bertindak sebagai sebuah sistem terbuka kedua-dua pembeli, penjual dan penderma dimana mereka boleh berkumpul bagi meneruskan proses pertukaran dan menjadi tempat mendermakan aset mereka. Objektif sistem ini adalah untuk membina sebuah sistem lelongan dan derma yang memberi peluang kepada semua pihak serta untuk memukar sistem manual lama kepada sistem computer yang mengurangkan penggunaan kertas dan membina sebuah sistem mesra pengguna yang menawarkan harga dan barangan yang asli. Sistem ini terbentuk dengan beberapa modul utama seperti pembida, penjual, pembeli, penderma dan pihak pengurusan. Setiap pengguna berdaftar, mereka boleh mengambil bahagian dalam aktiviti lelongan dan derma. Sistem ini dibina untuk mengatasi beberapa masalah yang terlibat dalam aktiviti lelongan secara manual dan sistem derma iaitu sesetengah acara lelongan awam dan derma yang menghadkan kepada peserta tertentu, pengurusan sistem lelongan dan derma yang melibatkan banyak penggunaan kertas kerja dan dibuat secara manual serta memakan masa dan sangat menyusahkan untuk mengesan pembida, penjual, pembeli dan maklumat dan butir-butir pendermaan. Sebagai kesimpulan, sistem ini dapat menyumbangkan manfaat kepada pengguna.

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LIST OF ABBREVIATIONS

PSM	-	Projek Sarjana Muda
OADS	-	Online Auction and Donation System
PHP	-	Hypertext Preprocessor
DFD	-	Data Flow Diagram
ERD	-	Entity Relationship Diagram
SQL	-	Structured Query Language

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CHAPTER I

INTRODUCTION

1.1 Project Background

The Online Auction and Donation System (OADS) is an online auction and donation system that aimed at taking to the fingertips of aspiring bidders and donators. This system is developed for the use of public users who resembling and delight in auction and donation events. Other than that, this system developed to affluence and ease the users to join either donation or auction events anywhere and anytime at their fingertips.

This system consisted of two main part that is Donation Module and Auction Module. Furthermore, this system also acts as an open system of both bidders and donators can come together to acquire new or used products or donate to the society organizations. Registered users can participate in the auction and donation by sitting in the comfort of their living room, during the day or night.

CHAPTER II

ANALYSIS

2.1 Introduction

The analysis phase is the most crucial part that involve in the project lifecycle whereby it is the phase where the project actually initiates. This analysis phase will define and describe the requirements of the new system. In addition, this analysis phase will explain and clarify all the process and procedure of the current system. To further explains and clarify this analysis phase, there are several diagrams such as Flow Chart, Context Diagram, and Data Flow Diagram 0 and 1 used in this phase. Commonly, this phase is about gathering requirement and information. The methods used for gathering requirements are interview, questionnaires, observation and research. In order to develop OADS, research method is necessary. Other than that, this analysis phase will identified the current process of donation and auction procedure thus included the basic of interface design, process flow diagram and simple Data Flow Diagram (DFD).

CHAPTER III

DESIGN

3.1 Introduction

This design phase discuss and elaborate about the current practice system design and outlines all the new requirements details necessity for the system developed. Furthermore, this design phase is a phase where the current system is interpreted into the system characteristics to meet with the user's requirements. Additionally, in this phase, there are some important aspect that will be discuss more detailed. Firstly, the User Interface Design. The user interface design is one of the most important parts for developer to implement the interface design as well as database design. Then, the Data Flow Diagram (DFD), Entity Relationship Diagram (ERD), data dictionary (DD), Conceptual and Logical Database Design and Physical Database Design of the system will be described in details.

CHAPTER IV

IMPLEMENTATION

4.1 Introduction

This implementation chapter will describe all the information about the implementation phase that involve in the main procedure of this OADS system. Furthermore, all the basic software configuration setup and the time taken will be discusses and detailed in this chapter. Meanwhile, the rest of the content will cover on the flow of the main implementation of this system. This is also means the normal insert, update and delete procedure will not be involved. For the main module of the system, the details will cover the data, stored procedure and the trigger involved, which will be stated in details with the help of GUI developed for the system.

CHAPTER V

TESTING

5.1 Introduction

This chapter will describe about the testing phase that is involve in the system development phase and testing phase is one of most important phase is developing software system. Other than that, testing is the process of evaluating the superiority and the competence of the code developed by the developer and this testing phase purpose is to determine either the system or application developed will be able to survive real-world data transfer.

Furthermore, this testing phase will encompass the main module for this OADS which is donation and auction module. This testing will comprise the white box testing and inspection. The purpose of this chapter is to provide detailed information about testing process and monitoring result for testing the OADS main module and provide testing strategy to all documents. The procedures will be focus on checking whether the system can produce the intended output.

CHAPTER VI

PROJECT CONCLUSION

6.1 Observation on Weaknesses and Strengths

This chapter will outline and describe all the weakness and strength of the OADS system that have been developed. All the observations process is made based on the flow of the current process for each module in this OADS. Furthermore, this chapter will focused about the process of donation and auction. Undoubtedly, after all the observations, all the strength and weakness were found out.

CHAPTER I

INTRODUCTION

1.1 Project Background

The Online Auction and Donation System (OADS) is an online auction and donation system that aimed at taking to the fingertips of aspiring bidders and donators. This system is developed for the use of public users who resembling and delight in auction and donation events. Other than that, this system developed to affluence and ease the users to join either donation or auction events anywhere and anytime at their fingertips.

This system consisted of two main part that is Donation Module and Auction Module. Furthermore, this system also acts as an open system of both bidders and donators can come together to acquire new or used products or donate to the society organizations. Registered users can participate in the auction and donation by sitting in the comfort of their living room, during the day or night.

This system is built to overcome some problems that occurs to the manual auction and donation events that having problem with that limited to a certain public participants, the management of auction and donation system that involve a lots of paper work and done manually and last but no least time consuming and very cumbersome for all the manual system to track the bidders, buyers and donators information and all transactions details.

All the process that involved will be explained further in this report. To minimize the error, interface control will be implemented to limit user entered text-liked input. In addition, the administration have more authority to manage all the auction module and donation module and able to make decision making to improve and emphasize all the records for this system.

1.2 Problem Statements

First of all, auction and donation is two different things that involve some numerical transaction and basically both of auction and donation were separately developed and become burdensome to the people who like to auction and at the same time kind-hearted to make some charity. Users who interested in this two events need to register and follow too many procedures which is all the procedures were totally different for these two events. Besides that, there are some problems occurs with the certain auction and donation events that have been held only for special guest or certain groups of people. This limitation causes the rest of the people who like to join or participate did not acquire the chance to join.

Furthermore, the manual auction and donation events were frequently involve a lots of paper used to store and keep all the client information. All the client data are stored manually and this causes inefficient and unproductive data management. In addition, some of the client information were loss and ruined because of the incompetent data management.

Additionally, is really time consuming to search and record all the transaction involve in both auction and donation events simultaneously. Due to the human during the data store process thus increased the inconsistency and inaccurate of data. Besides, this is very cumbersome for all the manual system to track and record the bidder and donator information and all the transaction payment details which consists of a large number of client information.

1.3 Objectives

OADS have been developed to embark on the following objectives:

- I. To develop an online auction and donation system that giving the opportunity to all registered user participate in any auction and donation event.**

OADS will allow all users to register into the system and users are free to participate in any auction events and users are able to make some charity to any society organization by donating.

II. To automate the manual auction and donation system and reduce the amount of paper used during the transactions.

OADS will automate all the auction and donation transactions and simultaneously reduce the paper used to records all the information needed.

III. To build an online auction and donation system that provide a friendly trading community to bid and donate products online with a fair price and genuine products.

OADS will provide a user-friendly auctioning and donating site where any kind of product provided by the admin can be auctioned and provide value-added services to the bidders and the sellers with a fair price and genuine products.

1.4 Project Scope

1.4.1 Modules

I. User Level Module

This module will automatically assign the level for admin and users. Level 1 for the admin and level 2 is for the users who registered into the system.

II. Login Module

This module will control user access to the system, determined by his/her roles.

III. Reload Module

All registered users need to reload their account before their make any transaction and automatically deduct the account balance if any transaction succeed.

IV. Donation Module

Any registered users are able to donate to the society organization available in this system based on the amount of users account balance.

V. Auction Module

Any registered users are able to bid on any items available in this system.

VI. User Module

Any registered users are able to manage their on profile in this system and made any transaction for auction and donation.

1.4.2 Target User

I. Admin Scope

Admin will have full control to every modules stated in modules in this system which is Donation Module and Auction Module and only have the authority to view the User Module.

II. Users Scope

User will have the authority to access and manage their own personal profile and have authority in auctioning and donating.

1.5 Project Significance

The Online Auction and Donation System that will be developed will give benefit and assist the bidder and donator mainly. The online auctioning and donating system is a flexible solution for inspiring and stimulating all the users with the power auction dan donation without any limitation of users. Besides that, OADS has been designed to be highly-scalable and capable of supporting large numbers of users with absolutely defeat the manual system. Moreover, OADS is a user-friendly auctioning and donating site and provide value added services to the bidders and the donators and very minimum time consuming and with a fair price and genuine products.

1.6 Expected Output

This system will be able to automatically calculate all the transaction involve in this system either donation and auction events. In addition, all data are stored digitally with minimum time consuming and less paper used.