BETTA FARM MANAGEMENT SYSTEM

FARID HAZEEQ BIN BURHANUDDIN

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Alamat tetap: No 32, Lorong Cakera	Aniza Binti Othman
Purnama 12/29 42300 Puncak Alam	Nama Penyelia
Selangor.	
Tarikh: 31/08/2021	Tarikh: 12 September 2021

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BETTA FARM MANAGEMENT SYSTEM

FARID HAZEEQ BIN BURHANUDDIN

This report is submitted in partial fulfillment of the requirements for the Bachelor of Computer Science (Software Development) with Honours.

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

2021

DECLARATION

I hereby declare that this project report entitled

BETTA FARM MANAGEMENT SYSTEM

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

STUDENT : _____ Date : 31/08/2021

(FARID HAZEEQ BIN BURHANUDDIN)

I hereby declare that I have read this project report and found this project report is sufficient in term of the scope and quality for the award of Bachelor of Computer Science (Software Development) with Honours.

SUPERVISOR : _____ Date : 12/9/2021

(ANIZA BINTI OTHMAN)

DEDICATION

I dedicate this project to Allah SWT my creator, my strong pillar, my source of inspiration, wisdom, knowledge and understanding. He has been the source of my strength throughout this semester. I also dedicate this work to my parents; Burhanuddin Bin Zainal and Sharifah Zainab Binti Ahmad Zambri who has encouraged me all the way and whose encouragement has made sure that I give it all it takes to finish that which I have started. Furthermore, I also dedicate this work to my supervisor, Mrs. Aniza Binti Othman who have been giving me guidance throughout my project. Thank you. My love for you all can never be quantified. May Allah bless you.

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May Allah grant the best rewards for all of you.

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ABSTRACT

Betta Farm Management System is a management system to support the management of betta, record the order history for breeders and users. In the current situation of the management, the order history is recorded manually by using hand. All the information relate to the betta and the order is recorded in a logbook or papers. Through this method the management does not have an effective information management for the order history. It is also hard for the management to track the order history. The objective of this project is to develop and design an information system that able to store the order history, betta information and users information. The scope of the project covers a few modules, which are login module, administrator module and user module. The significance of the project is to help the management in storing information relate to the betta with higher efficiency and less time consuming.

ABSTRAK

Sistem Pengurusan Ladang Betta adalah sistem pengurusan untuk menyokong pengurusan betta, mencatat sejarah pesanan untuk penternak dan pengguna. Biar kita ambil contoh dimana pada ketika ini semua pengurusan, sejarah pesanan direkodkan secara manual dengan menggunakan tangan. Semua maklumat berkaitan dengan betta dan pesanan dicatatkan dalam buku log atau kertas. Melalui kaedah ini pihak pengurusan tidak mempunyai pengurusan maklumat yang berkesan untuk sejarah pesanan dan ia juga sukar bagi pihak pengurusan untuk mengesan sejarah pesanan. Objektif projek ini adalah untuk membangun dan merancang sistem maklumat yang dapat menyimpan sejarah pesanan, maklumat betta dan maklumat pengguna. Skop projek merangkumi beberapa modul, iaitu modul log masuk, modul pentadbir dan modul pengguna. Kepentingan projek ini adalah untuk membantu pihak pengurusan dalam menyimpan maklumat berkaitan dengan betta dengan kecekapan yang lebih tinggi dan memakan masa yang lebih sedikit.

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LIST OF ABBREVIATIONS

BFMS	-	BETTA FARM MANAGEMENT SYSTEM
SDLC	-	SOFTWARE DEVELOPMENT LIFE CYCLE
TB	-	TERABYTE
GB	-	GIGABYTE
FR	-	FUNCTIONAL REQUIREMENT
SQL	-	STRUCTURED QUERY LANGUAGE
GUI	-	GRAPHICAL USER INTERFACE
HTML	-	HYPERTEXT MARKUP LANGUAGE
DDL	-	DATA DEFINITION LANGUAGE
ERD	-	ENTITY RELATIONSHIP DIAGRAM
CD	-	CONTEXT DIAGRAM
DFD	-	DATA FLOW DIAGRAM

CHAPTER 1: INTRODUCTION

1.1 Introduction

Betta Farm Management System(BFMS) is a management system that support the management of the farm. Nowadays many breeders still use manual method like recorded manually by using hand. All the information relate to the customer and the order is recorded in a logbook or papers. Via this approach the management does not have an appropriate information management for the order history. It is also hard for the management to track the order history. The objective of this project is to develop and design an information system that able to store user details, user's order and betta information. The scope of the project covers a few modules, which are login module, administrator module and user module.

1.2 Problem Statement

1) Takes a lot of time to fill records by using hand.

   All the records a save by using hand and it can It can occur in handwritten manuscripts as a result of forgetfulness or an unintentional stroke of the pen.

2) The records are poorly managed.

   All the information relate to the betta and the order is recorded in a logbook or papers which can be damaged and lost easily through human error and natural disasters.

3) Waste of time to find the records when are needed.

   It is hard for the management to track the order history because all the orders history has been save on paper.

1.3 Objective

1) To develop and design management system that able to store the order details.

2) To make system that can asses the order's record instantly

3) To make system that can generate the order report.

1.4 Scope

1.4.1 Modules to Be Develop

1.4.1.1 Login Module

To authenticate user to access the system by logging in using username and password to administrator page or user page.

1.4.1.2 Administrator Module

(a) Product – Admin can add new product and admin has right to delete the product.

(b) Customer - Admin can add new customer and view details of the customer, admin has the right to updates the detail and delete the user.

(c) Order - Admin can view all orders from the customer and print the orders report.

1.4.1.3 User Module

(a) Product – User can view details of the product, customer has no right to updates the detail and delete the product.

(b) Order - User can add new order and view details of the order.

1.4.2 Target User

(a) Administrator

(b) User

1.5 Project Significance

The significance of the project is to help the management in storing information relate to the product and user with higher efficiency and less time consuming. The responsible admin also capable to maintain the information easily.

Furthermore, the system will also improve the management access to retrieve all order history or relevant data. With the data, they can save any order easily.

1.6 Expected Output

The expected outcome of the project is a system that are able to help a Betta's farmer to manage the business easily. The admin can use all the functions provided by the system. The customer can easily make an order for the Betta. This will eliminates manual recording with a digitalized system.

1.7 Conclusion

Finally, the BFMS allows management to manage their orders in an efficient and convenient manner. Administrators can view information about each order's income and sales. As a result, they are able to determine the number of orders that will be distributed based on the information provided.

CHAPTER 2: LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

A literature review is a summary of existing research on the topic of your investigation. This synthesis brings together information from a variety of sources to provide a more comprehensive understanding of the topic, laying the groundwork for both the research question and primary research. Because it will cite sources and should discuss the sources' reliability, a literature review differs from an annotated bibliography. A methodology is a framework that project managers use to create, plan, implement, and achieve project goals. There are a variety of project management approaches that can be applied to a variety of projects.

2.2 Facts and Findings

2.2.1 Domain

The domain of Betta Farm Management System(BFMS) is web development. The task of developing, maintaining, and updating a website is known as web development. Web development also entails the creation of front-end pages as well as back-end server-side code that connects the web system to the database and the system's front end. Website has been implemented in many ways, such as advertisement, e-commerce, management and many more. Implementing the project as web development enable the system to be used in multiplatform with the terms of the device has an internet connection and able to use the web browser.

2.2.2 Existing System

GHV Betta Farm is an betta farm for Selangor state that situated in Kuala Selangor. It sells betta, food pellet, betta aid, and care equipment. Normally, all customers must come to the farm to make an order and purchase of betta and they also like to ask the price of the products and what item should use to taking care of their betta. Since the pandemic, all order must be made through phone only.

Currently, GHV Betta Farm still does not have any computerized system. All operation done manually and important information's are recorded by written. All records are kept in the paper and logbook.

The workflow in GHV Betta Farm starts with customer ask the availability of the product and then the person in charge will go through from logbook, fish rack and item cabinet to check their availability.

If the customer want to see the new stock of the product, they must come to the farm by themselves which is hard during this pandemic.

Currently, the person in charge faces many problems using this manual system. The problem occurred when the staff needs to open all records and find the answers for the customer requirement. Sometimes, the information needed is not included in the logbooks. The staff has to find it in the fish racks or item cabinet. All these things take a long time. The staff could give the wrong information.

The way to record the new information is not well managed. Sometimes, the staff just write down anywhere in the logbooks. It is a big problem if the handwriting cannot be read. To find data through the logbooks are not easy, the staff needs the patience to do it.

All information of the operations of the manual system are recorded in paper. The possibility for the data to be lost or damaged is very high. Old records might be already lost.