Chapter 1

INTRODUCTION

Background of the Study

Wood furniture making are one of the medieval in industry. The manufacturers are known for their expertise in craftsmanship, and hand-made work where they prioritized the customer's choice in the type of wood, design, carving, and weaving.

The Philippine furniture industry is one of the most labor-intensive and artistic industries in the country. The creativity of the Filipinos is the reason for the success of the Philippine furniture industry. Furniture companies tap the hardworking, creative, and enterprising qualities of Filipinos in manufacturing high-quality furniture. Because of this, the Philippines is known as the "Milan of Asia." There are 95% of furniture companies are classified as Small Medium Enterprises and the three major furniture production areas in the country are Metro Manila, Pampanga, and Cebu. Metro Manila and CALABARZON (Cavite, Laguna, Batangas, Rizal, and Quezon) consist of small, medium, and large furniture enterprises which specialize in wood furniture and it provides 2.1 million indirect workers nationwide and business to 5.4 million in its supply chain. As it is one of the earliest in the industry wood furniture shops are not yet implied and adopted technology in their business process.

One of the DOST Harmonized National Research and Development Agenda is technology transfer which is the Small Enterprise Technology Upgrading Program (SETUP) which encourages the Ministry of Micro, Small & Medium Enterprises to implement technology innovation to upgrade their competitiveness and support the country's economic development.

Every corner in cities and provinces nationwide has SMEs in the wood furniture business. Each furniture shop has a different design provide depend on the customers. Customers in a wood furniture shop have different design wants on its furniture like in the doors, chairs, tables, and beds. This gives agility and flexibility to produce furniture according to the needs and tastes of buyers. The furniture shop provides specific designs that the customer will choose. In contrast, at some point, some customers want to customize or be more personalized the furniture to make it unique however the client doesn't have much time to explain the design wanted to include and it consumes a lot of time on negotiation from both owner and customer. In taking the design of the customer for the furniture customization neither the customer will provide a drawing of the design nor the manager is the one who will draw one by one what the customer wants. The management takes tedious in finalizing the order. According to the management of the Gil Reyes furniture shops and Repair Shop the proponent asked, the customer had a hard time choosing a design. Sometimes, customer, had a specific design want to make or there is a lot of

existing design to choose from. Implementing technology in SMEs like wood furniture shops is the best solution to the stated existing problem.

As the proponent taking BS Information Technology with specialization in Service Management track, this proposed project is aligned with improving customer service through implementing technology in the wood furniture industry.

Purpose and Description

Many people are building or renovating their houses to make them more comfortable yet beautiful. In every part of the house, they put their hearts and creativity into becoming more meaningful. Furniture is one of the basic needs of the home. In the Furniture industry, one of the most chosen types of furniture is made from wood.

The Gil Reyes Wood Furniture Design Customization and Ordering System is a web application that allows the user to customize different furniture features designs such as beds, doors, chairs, etc. As well as providing specific designs where customers can browse and choose whatever they want. The system can also manage the customer's transactions to have a responsive and efficient way of ordering an item of wood furniture.

The purpose of this study is to provide a web application to show the creativity of the customers in creating their unique design of wood furniture. There will be an added feature for the ordering process to make it easier and help customers by providing a convenient way of placing an order for their chosen

furniture especially now in the current situation customers avoiding physical contact because of the pandemic. It's less hassle for the users because the user can order and customize the furniture design order based on the customer taste online in an efficient way. This web system application also serves as an opportunity for Gil Reyes wood furniture shop to boost their sales and to have a easier way to provide service to their customer.

Objectives of the Study

To develop a web application that easily accesses customized furniture design based on the customer's taste and can manage the orders of the wood furniture shop.

Specifically, it aims to:

1. Develop a page to customized designs of furniture in terms of:

a. Selection

b. Drop

C. Drag

2. Manage customer's orders in terms of the Order Transaction through

a. Message feature

b. Order Placement

c. Payment Method

Scope and Limitations of the Study

The project focused on providing wood furniture products only. It provides a customized design of wood furniture for customers. It is a web-based application applicable on any device such as a computer, tablet, and mobile phone. It consists of two users; the Gil Reyes Furniture and Repair Shop and its customers. The customers will be able to create their design or use the existing one and post it to the web app or send it to the shop directly. Then, the furniture shop will take responsibility for getting the customer's order and process it.

However, the web-based application is for Gil Reyes Furniture and Repair Shop only. This study will focus on the furniture design customization and ordering process only.

Definition of terms

In order to understand the study fully, the following terms are hereby defined:

Wood Furniture is any product made of wood, a wood product such as rattan or wicker, or an engineered wood product such as particleboard that is manufactured under any of the following standard industrial classifications.

Wood Furniture Shop is a business that offers wood furniture products.

Operational Definition of terms

Chrome - is an application **used** by the proponent to test and utilized the web system.

Database - an organized collection of data stored and accessed electronically. Small databases can be stored on a file system, while large databases are hosted on computer clusters or cloud storage.

Design Customization - allows users to select the content, layout, functionality, or design that appeals to them.

Framework - an abstraction in which software, providing generic functionality, can be selectively changed by additional user-written code, thus providing application-specific software.

Layout design is a process of arranging visual elements—like text, images, and shapes—on a given page. Layout design is important for any project that conveys a message through eye-catching visuals, like magazine layouts, website design, and advertisements.

Microsoft Edge is a cross-platform web browser created and developed by Microsoft. This platform will be used by the proponents to test the web system.
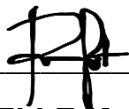
Web-based System is an application that is accessed via HTTP. The term web-based is usually used to describe applications that run in a web browser. It can,

though, also be used to describe applications that have a very small component of the solution loaded on the client PC.

Web-Hosting Platform is a type of Internet hosting service that hosts websites for clients, i.e., it offers the facilities required for them to create and maintain a site and makes it accessible on the World Wide Web.

w3schools is a freemium educational website for learning to code online. It is a website used by many programmers to get programming codes.

Approved by:

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