組別 Team ID：202421

專題屬性 Category：多功能網站系統（Website System Design）

專題名稱 Project：小農好物銷售與捐款系統（Small Farm Goodies Sales and Donation System）

一、指導老師 Advisor：陳宏益老師（Prof. Hung-Yi Chen）

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三、 系統環境 System environment：

（一）軟體 Software：

資料庫 Database: Oracle Database 19c

語言 Programing language: JavaScript、CSS、HTML、PL/SQL、SQL

開發工具 Toolkits: Oracle Apex, Oracle SQL Developer

四、 簡介：

（一）**系統簡述**

本系統「小農好物認養與銷售系統」旨在運用 Oracle Apex 開發工具打造響應式網站，小農可透過網頁管理產品及進行銷售，可增進小農收入、支持農業發展；消費者也可透過網頁進行購買農產品及捐款，促進參與公益捐款，進而提升小農市場競爭力與收益。

（二）**特色**

- 操作介面:設計為直觀易於理解的操作介面,讓使用者能快速的上手系統操作。
- 圖表視覺化:透過後台數據生成各類圖表，提供管理者進行數據分析並清晰呈現，供使用者瀏覽。
- 捐款功能:本系統新增捐款功能，消費者可對小農捐款，支持小農的發展。
- 多角色管理:利用身分識別來區分小農、消費者及管理者。管理者可進行管理，小農可進行管理產品及銷售，消費者則可購買產品及公益捐款。
- 訂單狀態追蹤:劃分為「待出貨」、「已完成」及「已退貨/退款」，方便清楚掌握每項步驟。
- 免安裝的軟體:使用者無需下載任何應用程式，即可在手機及電腦網頁上使用本介面。

五、 Introduction：

Introduction

This Adoption and Sales System for Smallholder Farmers' Products is designed to use the Oracle Apex tool to create a responsive website so that small farmers can manage their products and sell them through the webpage, which can increase smallholder farmers' income and support the development of the agricultural industry. Additionally, consumers can also purchase agricultural products and make donations through the website, which can promote participation in charity donations lead to the participation of public welfare donations, thus enhancing the competitiveness of the smallholder farmer's market and their income.

Features

- User interface: Designed to be intuitive and easy to understand, allowing users to use it easily.
- Charts to visualize data: Generates various charts based on backend data to provide managers with insightful data analysis and clear visual presentation for users to browse.
- Donation feature: This system includes a donation feature, enabling consumers to support smallholder farmers through donations.
- Role-based management: Utilizes authentication to distinguish between the roles of smallholders, consumers, and managers. Managers can manage the system, smallholders can manage and sell products, and consumers can purchase products and make charitable donations.
- Order Status Tracking: Tracks order status with categories like "Pending Shipment," "Completed," and "Returned/Refunded," helping clearly understand each step of the process.
- Installation-free system: Users can use the browser on the computer or mobile to navigate to the system without installing any software.