VIETNAM GENERAL CONFEDERATION OF LABOR

TON DUC THANG UNIVERSITY

FACULTY OF INFORMATION TECHNOLOGY

Final Project

Topic: Car Distributor Inventory Management Software

Subject: .Net Technology

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1 Summary

In this project, we will build software and using Windows Forms C Sharp for a company selling cars. The report contains:

- Introduction
- Design
- Demo project
- Installation guide

2 Introduction

2.1 Project description

In order to digitize the process of inventory management and stock in-out activities, a car distribution company has requested the development of a software to manage all related tasks. The software allows (1) the manager/administrator and (2) employees to interact with each other on the same system.

2.1.1 Function of Manager:

- 1. Employee Management: The manager has the function to add employee accounts to the system, and each account will have a login name which is the characters before the @ symbol of the employee's email, and the default password will be set as '123456'. Additionally, manager can view the list of employees and the performance of each individual.
- 2. Warehouse management: Adding new products to the warehouse, creating and printing receipts for stock in and stock out activities to import and export products.
- 3. Partner management: Adding new car suppliers and dealers, viewing detailed information of each partner, and transaction history.
- 4. Statistics: Viewing the number of employees, the quantity of goods in the warehouse, the total revenue, monthly revenue, employee performance, popular products, etc.
- 5. Manager can also perform all the functions of an employee.

2.1.2 Function of Employee:

- 1. Employees can create and print received note, review the list of receipts they have created, print received note and receipt lists. After successfully creating a receipt, the quantity of products in the warehouse will be updated based on the quantity on the receipt.
- 2. Employees can create and print delivery notes, review their list of created delivery notes, and print lists of delivery notes. After successfully creating a delivery note, the quantity of products in stock will be updated based on the quantity on the delivery note.

3. Personal information management: Employees can view and edit their personal information, as well as view statistics on the invoices they have created for inventory input and output.

3 Design

3.1 Database design

3.1.1 Diagram

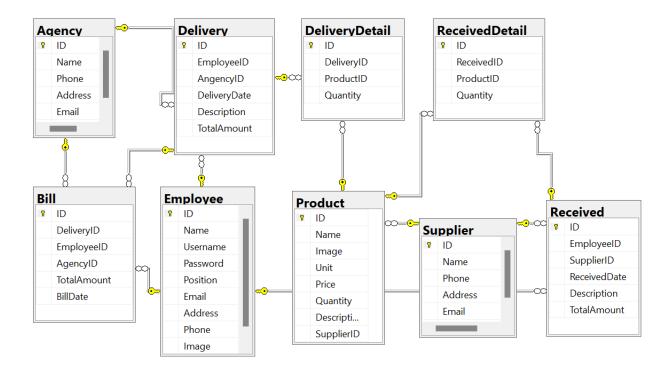


Figure 1: Physical Level Database Diagram

3.1.2 Tables

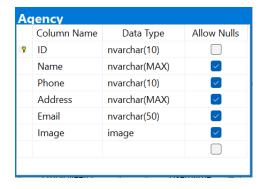


Figure 2: Table Agency

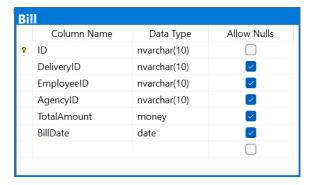


Figure 3: Table Bill

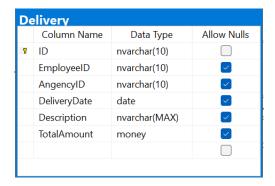


Figure 4: Table Delivery

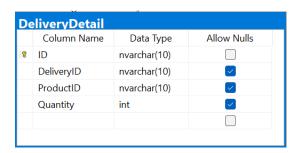


Figure 5: Table Delivery Detail

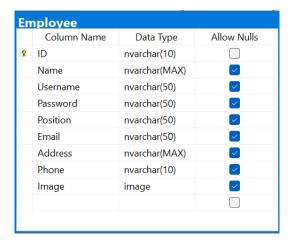


Figure 6: Table Employee

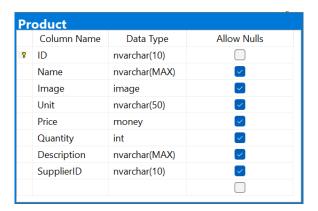


Figure 7: Table Product

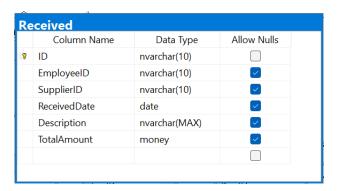


Figure 8: Table Received

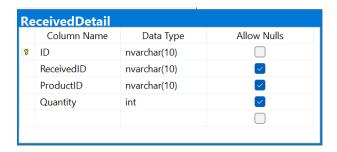


Figure 9: Table Received Detail

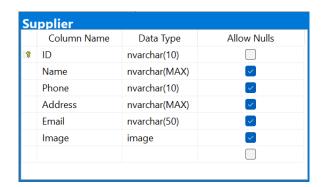


Figure 10: Table Supplier

4 Demo Project

Firstly, in order to use the functions of the software, we need to log in.



Figure 11: Login to Software

After successfully logging in, the interface of the software will appear.

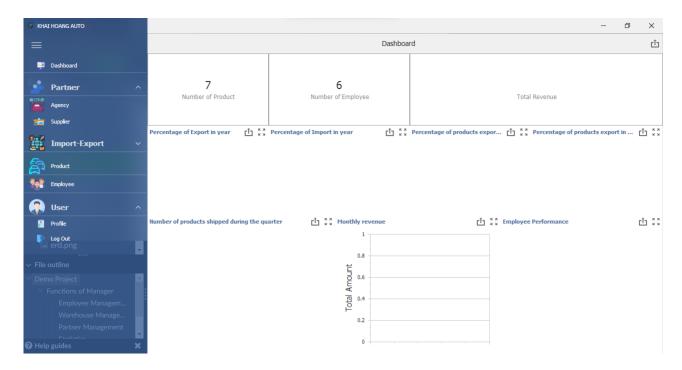


Figure 12: Interface of Software

4.1 Functions of Manager

4.1.1 Employee Management

Select the employee icon on the sidebar to access the employee management function.

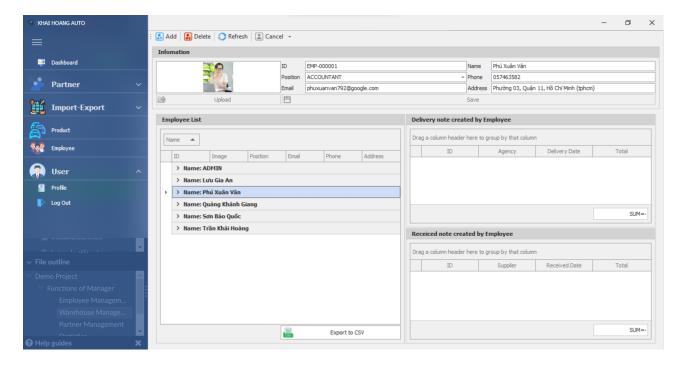


Figure 13: Interface of Employee management function

4.1.2 Warehouse Management

Select the product icon on the sidebar to access the warehouse management function.

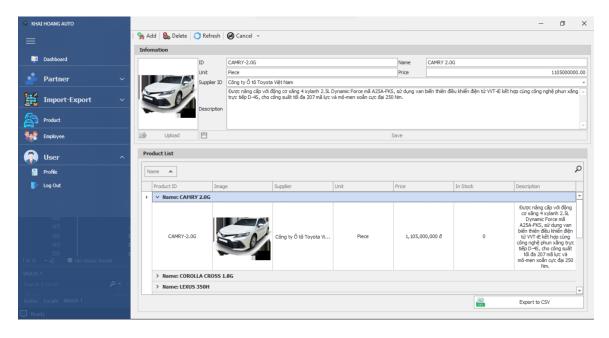


Figure 14: Interface of Warehouse management function

4.1.3 Partner Management

Select the dashboard icon on the sidebar to access the partner management function.

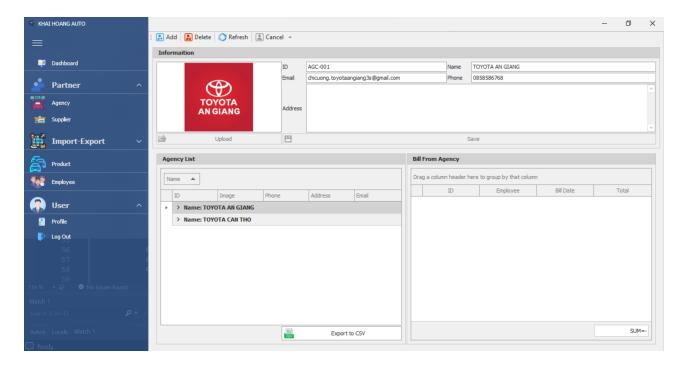


Figure 15: Interface of Agency Management function

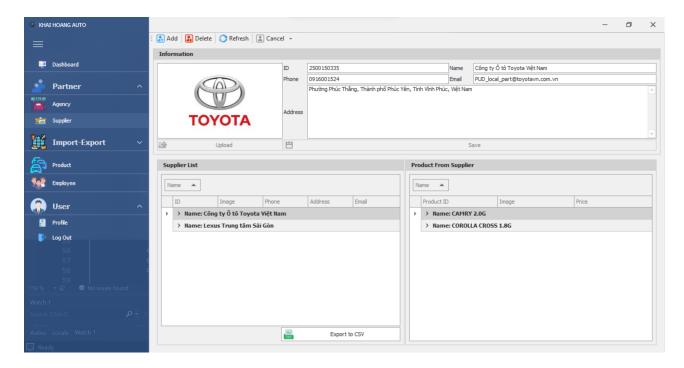


Figure 16: Interface of Supplier Management function

4.1.4 Statistics

Select the dashboard icon on the sidebar to access the statistics function.



Figure 17: Interface of Statistics function

4.2 Functions of Employee

4.2.1 Inventory Management

Select the Received icon or Delivery icon on the sidebar to access the Inventory Management function.

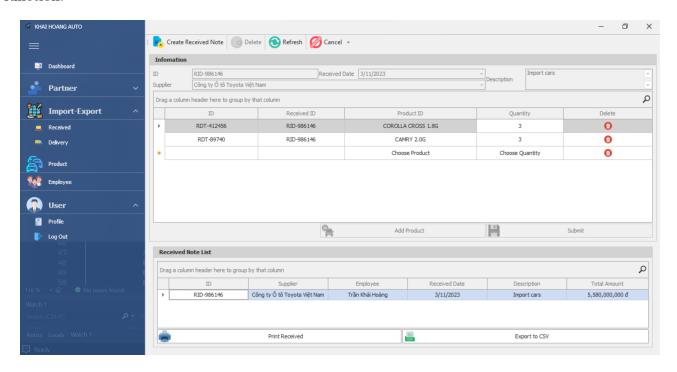


Figure 18: Interface of Received Management function

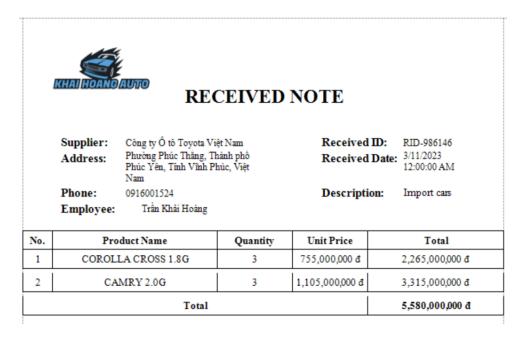


Figure 19: Print Received Note

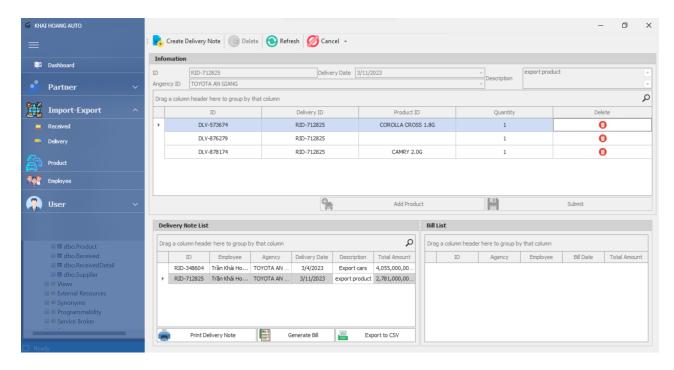


Figure 20: Interface of Delivery Management function

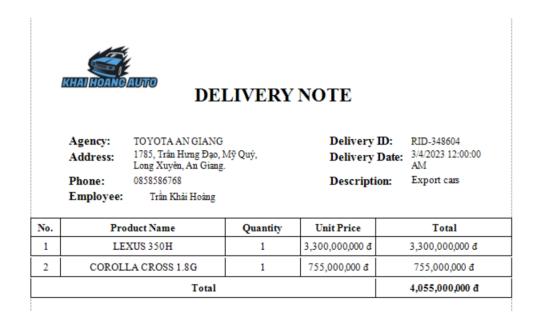


Figure 21: Print Delivery Note

4.2.2 Personal Information Management

Select the Profile icon on the sidebar to access the Inventory Management function.

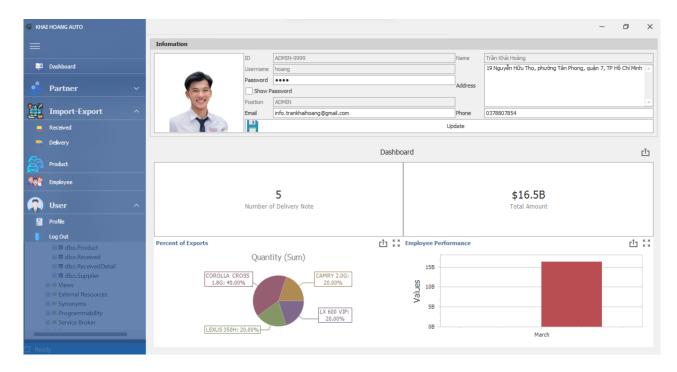


Figure 22: Interface of Personal Information Management function

5 Installation

5.1 Environment Setup

- Microsoft Visual Studio + DevExpress v21.2
- Microsoft SQL Server Management

5.2 Database Connection

1. Run file "FinalDB.sql" in Microsoft SQL Server Management :

```
Final_DBsql-TRA..OANG-L\Admin (S2)) * X

USE [master]

GO

/****** Object: Database [dotNET_FinalProject] Script Date: 3/12/2023 12:41:05 AM ******/
CREATE DATABASE [dotNET_FinalProject]

CONTAINMENT = NONE

ON PRIMARY

( NAME = N'dotNET_FinalProject', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL15.SQLE

LOG ON

( NAME = N'dotNET_FinalProject_log', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL15.SQLE

LOG ON

( NAME = N'dotNET_FinalProject_log', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL15.SQLE

LOG ON

ALTER DATABASE [dotNET_FinalProject] SET COMPATIBILITY_LEVEL = 150

GO

IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))
begin

EXEC [dotNET_FinalProject].[dbo].[sp_fulltext_database] @action = 'enable'
end

GO

ALTER DATABASE [dotNET_FinalProject] SET ANSI_NULL_DEFAULT OFF

GO

ALTER DATABASE [dotNET_FinalProject] SET ANSI_NULLS OFF

GO

ALTER DATABASE [dotNET_FinalProject] SET ANSI_NULLS OFF
```

Figure 23: Run file FinalDB.sql in Microsoft SQL Server Management

2. Open the project on Microsoft Visual Studio and access App.config file. Then, in the connectionString section as shown below, change the server name to the server on your PC.



Figure 24: Change the server name in your App.config file

5.3 Run Application

- After successfully connecting to the database, click the Run button in Microsoft Visual Studio to run the software.
- The administrator account to access the software.

Username: adminPassword: 123456