Big Data Analysis for E-Trading Flower Shop Management System

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Abstract — **Flower shops in Europe have traditionally been a billion-euro business. From a financial, market, customer and competitive standpoint, the study aims to investigate the business strategy in further detail. It provides evidence-based guidance on how to run a floral store. When it comes to running a flower store, they talk about the difficulties they've run into when trying to find the best floral suppliers. When it comes to impressing consumers, flower arrangements and services need to be on point at all times. There is no doubt that they will come back. That is to say, those with more disposable money frequently spend a greater amount to have a more unique shopping experience. The fragile economic climate may have a negative impact on sales, and the company must plan for this possibility. If a firm is successful, its business model will be copied by competitors as well. Even more crucially, the flower business must continually reinvent itself.**

Keywords — *Big Data, Flower Shop, E-commerce, Entropy Method, Entrepreneurial Ecosystem, Business Model etc.*

I. INTRODUCTION

Flowers are God's gift to this earth. Flowers have had a profound impact on the lives of some of the world's most prominent individuals. In our everyday life, we are very busy with our day-to-day activities, which actually stops us from appreciating the simple things in life, like celebrating a birthday, congratulating our colleagues on a promotion, or even surprising our better halves on anniversaries. Our usual excuse: "I wanted to but couldn't manage the time!" [1]. That's why we want to take the responsibility off your shoulders while you take care of your everyday work. To do so, our specially designed custom-made flower bouquets and fresh flower solutions are here to provide you with the much-needed convenience of buying a flower and making the moment extra special. Choose from a wide range [2] of occasion-specific flower bouquets for your near and dear ones and make them smile today. The startup expenses of a floral store often range from $10,000 to $50,000. Flower coolers, renting a site, purchasing the first order of blooms, and other floral-arranging equipment account for a large portion of this. Consider the cost of a delivery vehicle and an employee's salary if a firm is going to be delivering flowers. Only buying one chiller and stocking fewer flowers [3] at a time might help florists keep their initial expenses low. Another option is to delay the purchase of a vehicle until the company is profitable. This program eliminates the need for manual labor and associated challenges. Using this method is a simple way to get information about the numerous items on the market. In terms of information on different activities, this system is superior to the current one. The project might [4] yet be done better, as we discovered. All relevant data is shown as soon as a specific detail is requested. Cloud resource management of the big data workflow system may

provide and deprovision resources using the Amazon EC2 cloud service provider's application programming interface.

II. Literure Review

"Every flower is a soul emerging in nature," Gerard De Nerval famously stated. Many people like watching them as they use different colors to decorate the ground. We are all in awe and exhilarated by their grace and delicacy [5]. As a result, flowers are typically considered tokens of affection, and the recipient's response is priceless. Floral art, floral symbolism, and flower quotations may all be used to commemorate the beauty that flowers bring into our lives. Sharing flower quotes with your loved ones instead of choosing flowers is a great way to show your appreciation [6]. To brighten someone's day, give them a bouquet of these inspirational words. All of these flower quotations are lovely, but which one stands out to you the most? There are many folks in our neighborhood that are in need of our assistance [7]. By launching a flower business, we can assist them in commemorating significant moments in their lives. Flower business owners are always in the process of producing something fresh. We'll need money and skilled management to establish a flower shop, but it's nothing compared to opening a restaurant or one of the many other types of retail companies. The survey was conducted using an online questionnaire. This method [8] was chosen because of the advantages it provides over other methods, including that it is less costly, better, faster, and simpler (Ronald, 2002). The survey was based on previous research. This study focused on Indonesian small company owners and managers. In Indonesia, there is no centralized database that has information on all Indonesian small and medium sized businesses. The E-commerce Management System has various advantages over a traditional firm, including the ability to compare product pricing and return undesirable purchases. We can use existing technology to tackle the problem with the current system as long as we have it. Customers may place orders for things through the e-commerce management system's flying robots, and the firm will deliver the goods to them via the flying robot. By having the robot utilize GPS to find the user, we can reduce the time it takes to deliver a product. Before sending a product, the e-commerce company does a quality control check to guarantee that it is in accordance with the order. Customer Service, Electronic Payment, Order Confirmation Electronic Catalogs, Electronic Order Entry and Order Fulfillment are just a few of the numerous e-commerce features discussed in literature. Retail, wholesale, the internet, and mobile are all areas where e-commerce may be found to do business with other companies in consumer-to-consumer commerce.

III. Working System of Flower Shop Management

Because online shopping is both fast and rapid, the system must be able to swiftly search through a huge number of product details to get the information that consumers want to know. To order or buy any flower, we need to know some information, such as the customer's name, phone number, password, etc. That information is included in the user panel. By including basic information in the user panel, customers can get an account. Then customers are able to search for any item that is included in our management system. Here they get home delivery service. The payment is very easy. Customers could clear their payments using online banking. If you have a reasonable budget for the flowers you desire, you may receive lovely blossoms without overspending.

Figure 1: Basic Diagram of Flower Shop management

There are times when inexpensive flowers with the same hue as expensive flowers may generate a beautiful wedding gift, and the recipient will be unaware that it's not every tulip or even whatever expensive flower you wanted. You must first authenticate and then re-verify the date when the flowers will be delivered. If they show up at the last minute, they may complicate your wedding ceremony, but you want them to be fresh and exciting for your big day. If you're going to buy it, a piece of software should be easy to generate at the correct time and place. This is likely to lessen the real chaos on the big day. Besides, you'll have a slew of other things to think about! Flower designs may be ordered online and are an excellent alternative to buying fresh-cut bride's flower store bouquets from your local shop.
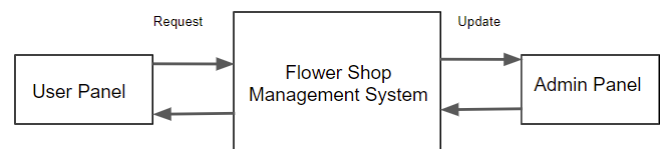

Figure 2: Introduction of Flower shop Management System

The data was previously managed by hand in the current system. The system's approach to data management is abysmal. A separate register is used to keep track of client information, including their names, addresses, and other

identifying information, as well as the specifics of the transactions they've had with the company at different locations. When data is kept in the form of a physical copy, it becomes tough to preserve.

IV. PROPOSED MODEL

The current flower shop management is still being done manually. For this, we will create a system that solves the current problems in which the whole flower shop management with some advanced functions should be made easier. At the same time, a simple interface and maximum features need to be added. Floral shops have been a hot topic recently because of their effect on many businesses and industries, and they will continue to have an impact on people's lives for years to come. Sales and purchase order information may be entered into this program. Similarly, it keeps tabs on the business's costs and revenues. Various reports may be generated with this billing accounting software, including items, ledgers, sales orders, purchase orders, and expense ledgers, among others. This product is completely self-contained and works just as well as other software packages on the topic. It offers a basic database rather than a complicated one for high needs, and it delivers a decent and straightforward graphical user interface to both new and experienced computer users.

Firstly, customers must fill out a registration form. For registration, we need the customer's name, phone number, and password. After they finish that work, we provide them with a login panel. Because online shopping is both fast and rapid, the system must be able to swiftly search through a huge number of product details to get the information that consumers want to know. At the end of the registration, users can get a login panel. They only need to enter their user's name and password. After finishing that work, they are able to choose flowers, order flowers, etc. The major goal of the big data hybrid scheduling system is to address the issues mentioned above.
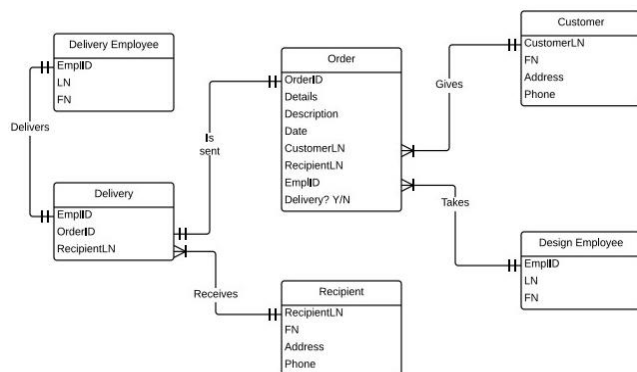

Figure 3: Procedure of Flower Shop Management

The Admin Settings tab is one of the most powerful features of the admin panel, from where the admin can actually control the whole management. Each of the promo codes can be managed easily with the ID, promo code, value of promo code, and total use of the code. The admin panel is only for management to see the user system and many other things. In this panel, all the data of customers is entered. Management can check their pay. They add or delete the flowers' names. We at the flower shop understand that the small things in life have the biggest impact. That is why we believe that every important occasion, event, and moment should be marked by the delicate beauty of fresh flowers. With our wide range of products, picking the right online gift that speaks to your feelings is very easy with our home delivery. To make your life fresher and easier, flower shop is an online flower delivery service. As your online florist of choice, we are here to fulfill your flower requirements with just a simple click. With each bouquet, a complimentary gift card is provided so that you can send a personal message with the flower arrangement.
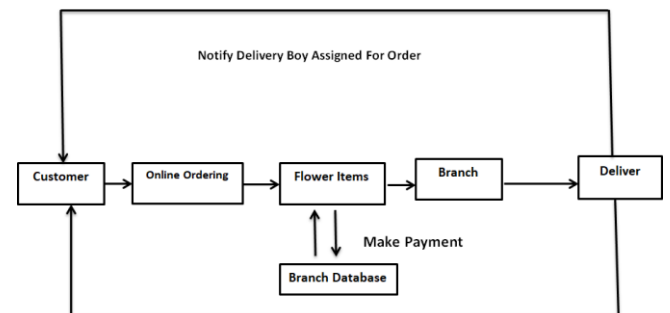

Figure 4: Flower Shop order process

Using this program, you can keep track of every aspect of your sales and purchases. Similarly, it keeps tabs on the business's costs and revenues. Various reports may be generated with this billing accounting software, including items, ledgers, sales orders, purchase orders, and expense ledgers, among others. This piece of software is completely self-contained and performs about as well as other similar tools. It offers a basic database rather than a complicated one for high needs, and it delivers a decent and straightforward graphical user interface to both new and experienced computer users. With the Shop management Project, it's possible to see all of the products a business has to offer. Its primary function is to keep track of stock levels and notify customers as soon as a product is out of stock, along with other relevant information. Stock information management is a difficult and time-consuming activity that needs constant updating. There would be a tremendous loss of money and market value and a terrible image among consumers if the stock data of the stores and shops were inaccurate.

V. Result and Discussion

After completing the code, the code is compiled into blocks and displays output like the following screen. There are two types of users in this system. An admin can access the entire system without any type of limitation. However, the user will have access to a very small number of systems through the user panel. This panel will display for the first time after running the code. Where the user or admin panel will provide the option to go.
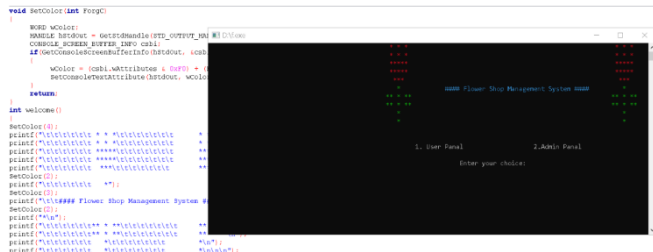

Figure 5: Main Panel

In this figure 5, the main page of this project is shown. One has to choose between the user panel or the admin panel to have access to the specific section. The existing admin will be able to log in from here and will also be able to create a new admin account again if required.
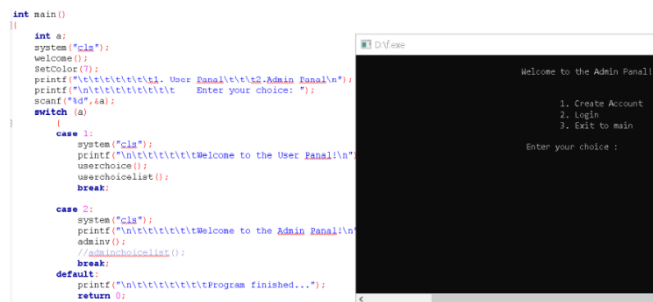
Figure 6: Registration Panel / Login Panel

Figure 6 shows how an admin can choose between creating a new account and getting logged in. If you fill in the required information for the admin account and submit it, the information will be saved in the file.
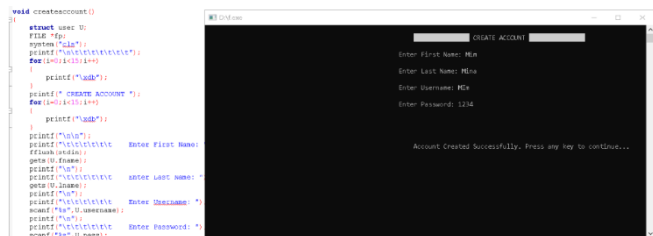

Figure 7: Making a User Account

Figure 7 demonstrates how the admin creates a new account by filling in this form. You can log in to the admin panel with the username and password that were chosen at the time of registration. If you fill in the required information for the admin account and submit it, the information will be saved in the file. To get logged in, one has to give their username and password and this operation is shown in Figure 8. You can log in to the admin panel with the username and password that were chosen at the time of registration. If you fill in the required information for the admin account and submit it, the information will be saved in the file. This admin panel will display when the login is successfully completed.
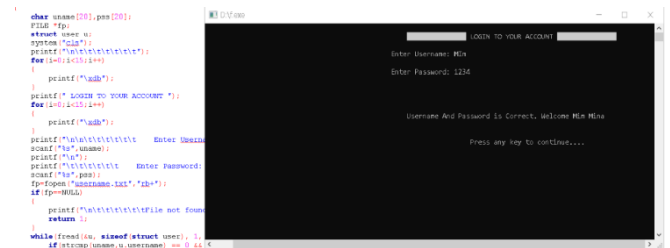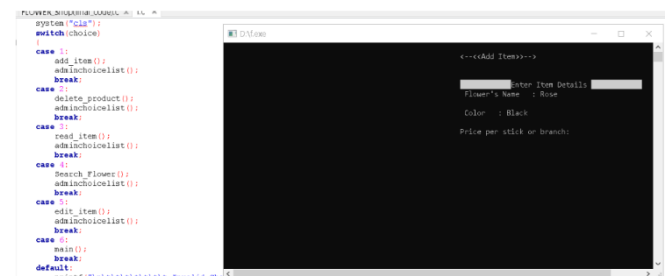

Figure 8: Login

Figure 9: Add the Flower Name

Figure 10: View Item

Figure 9 shows how an admin can add a flower to the main flower list by entering the name, color and price of the flower. Figure 10 shows the item list from the flower shop. The list contains the name of the flower, its price, color, code, and the quantity that can be ordered at a time. In Figure 11, here we can see the flower list for the shop. Here will be different types of flowers that will update in every season by

type of seasonal flowers. This flower list can be seen by the admin and the user. If a buyer wants to buy some rare flowers, they have to pre-order them.
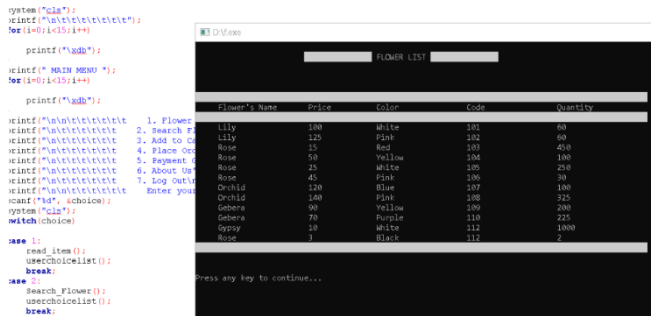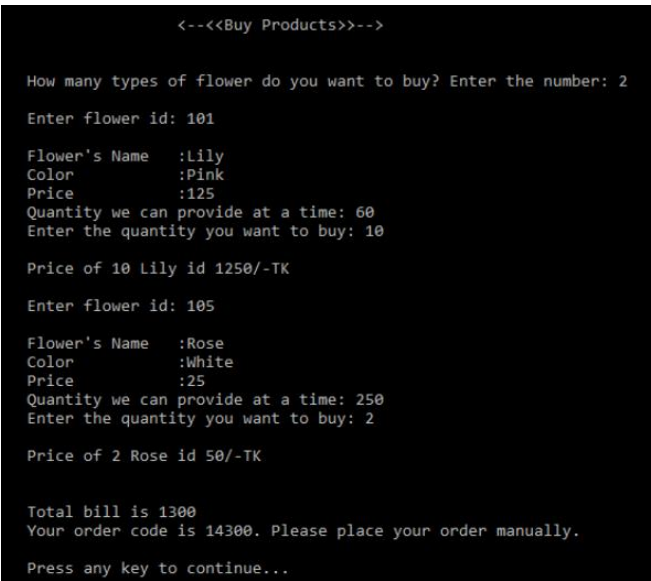

Figure 11: Flower Catalogue
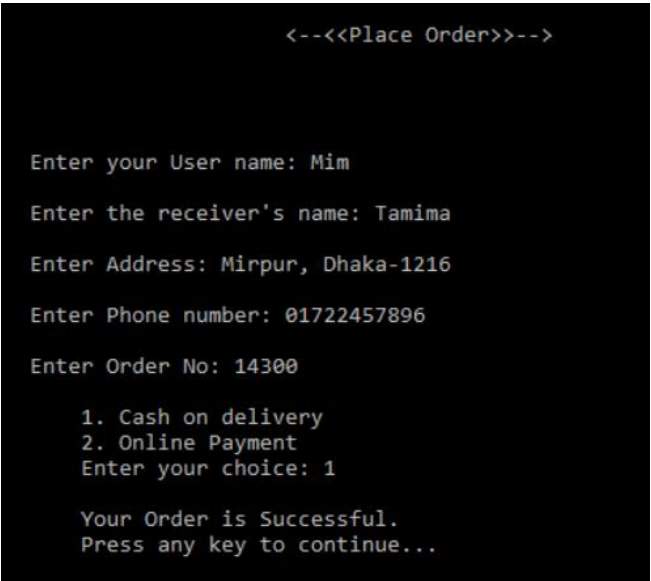

Figure 12: Add to cart

Figure 13: Place Order

In this figure 12, after choosing their preferred flowers they need to select the flower type, ID, and the amount of the flower they want to buy. Then they will get an auto-generated bill containing the total cost, order code, and all the information about the flowers. If the user wants to exclude any of the chosen flowers from their chosen list, they can do it here. Also, if they want to add more flowers, they can add them in this section. Figure 13 shows how the user places an order successfully by filling out this form. Here they will see how they can pay for their orders. They can choose cash on delivery or online payment from this section.
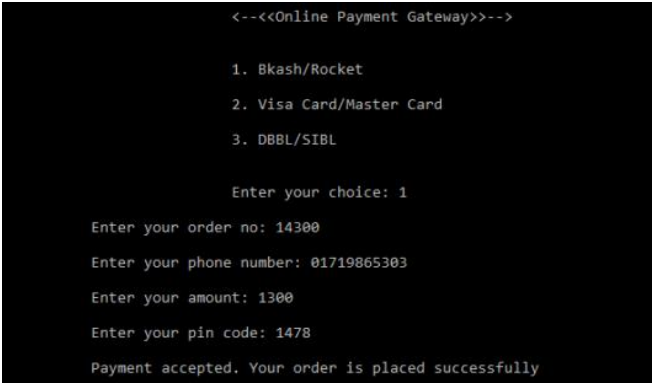

Figure 14: Online Payment Gateway

Figure 14 shows an online payment gateway containing different types of payment options. It also shows how a user is paying his bill.
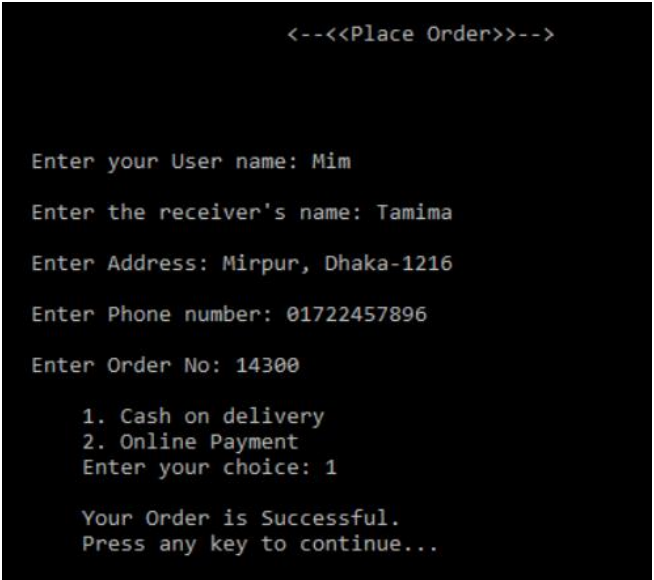

Figure 15: About us

This figure 15 contains the basic information about the people behind this project. It contains their name, individual email address, their location, and a contact number.

CONCLUSION

Our entire system has been completed in a very efficient way. All the necessary features for flower shop management have been added to the system. This software eliminates the need for manual labor and the associated issues. Through this whole project, we have found that outsourcing management can be more efficient for further use. Using this method is a simple way to get information about the numerous items on the market. In terms of information on different activities, this system is superior to the current one. The project might yet be done better, as we discovered. All relevant data is shown as soon as a specific detail is requested. All linked information in an organization, as well as tasks allocated to an employee by an organization, will be stored in a computerized database in this project. We may deduce from this that the app's purpose is to streamline operations by reducing the number of people involved and the associated complexity.

FUTURE SCOPE

The development of a system that meets all of a user's needs is not achievable. As the system is utilized, the user's needs evolve. We have completed the project according to our goals. But then there are many more ways to make this project more convenient and new useful features can be added. That is why we will try to make this system more advanced. This improves the design of the system and make the entire system more secure, so that customer and hotel information is secure. This system may be improved in the future by adding features such as: The system may be upgraded and adapted to a new context when new technology develops. Because of the object-oriented architecture, any future modifications will be simple to implement. Emerging technologies may enhance security based on anticipated future threats. Additional modules allow for the insertion of new requirements.

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