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ІТ-ПРОСТІР СЬОГОДЕННЯ: ТЕНДЕНЦІЇ, ІННОВАЦІЇ ТА ПЕРСПЕКТИВИ РОЗВИТКУ

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MINISTRY OF EDUCATION AND SCIENCE
OF UKRAINE
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**IT-SPACE OF TODAY:
TRENDS, INNOVATIONS
AND DEVELOPMENT PROSPECTS**

Collection of abstracts
of the II International Scientific and Practical
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DEVELOPMENT OF A WEB APPLICATION FOR ACCOUNTING FOR ORDERS IN A FLOWER SHOP

The purpose of the study is to develop a web application that automates and optimizes the processes of receiving, accounting and managing orders in the flower business through the introduction of modern web technologies and digital management tools. As a result of the project, a web application was developed that allows the administrator and store employees to keep track of orders, manage the catalog of flower products, monitor order statuses, plan delivery and generate reports. The system provides automated storage of information about customers, orders and product balances, which reduces the likelihood of errors and data loss.

The chosen topic is relevant in view of the modern needs of automation of business processes in the field of trade and customer service. In the context of growing competition, increasing requirements for the quality of service and the need for prompt processing of orders, the introduction of digital solutions for managing the activities of flower shops is of particular importance. The use of manual or fragmented accounting methods leads to errors, loss of information, delays in order fulfillment, and reduced customer satisfaction.

The purpose of the study is to develop and implement a web application to automate the processes of accounting for orders in a flower shop, which will help optimize the work of personnel, reduce the number of operational errors and increase the overall efficiency of the enterprise. The object of the study is the processes of acceptance, processing and accounting of orders in flower shops of small and medium-sized businesses, which require automation to improve management and reduce the cost of time and resources. The subject of the study is the software, methods and algorithms used to automate order accounting, in particular, product catalog management, customer data storage, order formation and tracking, as well as the creation of reports for the analysis of store activities. The information base of the study is the analysis of existing software solutions for accounting for orders in the field of trade, regulatory documents regulating entrepreneurial activity, as well as data received from employees and owners of flower shops who have practical experience in working with such systems. The development of a web application for accounting for orders in a flower shop is a relevant area of business digitalization.

In the process of research, the following methods were used:

- analysis of literature and information sources, which made it possible to generalize theoretical and practical approaches to the automation of order accounting;

- statistical analysis of data, within the framework of which the peculiarities of the work of flower shops were investigated and the main problems of existing accounting methods were identified, as well as requirements for the functionality of the web application were formed.

The practical significance of the study lies in the possibility of using the developed web application in the real activities of flower shops. The software product allows you to streamline order accounting, optimize the work of personnel, increase the accuracy of data management and improve the quality of customer service. The implementation of the system helps to increase productivity, reduce operational errors and provides effective analytics for making management decisions. The process of deploying a web application for accounting orders in a flower shop requires careful planning and consideration of a number of key aspects, including installing the necessary software, setting up a database, security configuration, and user training.

Before deployment, you need to define system requirements, including:

- operating system: Windows Vista or later;
- installed browsers compatible with the web application (Chrome, Edge, Firefox);
- availability of access to the file system for storing local data and configuration files;
- minimum memory and processor requirements for stable operation of the application.

The installation process includes:

- creation of an installation package or web installer that automates the deployment process;
- distribution of the packet among users via the internal network or external media;
- automatic installation of necessary dependencies, such as Node.js, .NET Framework for the backend, or drivers to work with the MySQL/SQLite database.

Database Settings:

- initial initialization of the database file or server database;
- configuration of database access paths in the configuration files of the web application;
- setting up access rights to the database to prevent unauthorized access.

Security Configuration:

- setting up authentication and managing user roles;
- implementing encryption policies to protect sensitive data, such as passwords and customer contact information;
- checking for vulnerabilities in the web application and applying security updates.

Post-Installation Testing:

- conducting functional tests to check the correctness of all web application modules on end workstations;
- checking integration with other systems, for example, accounting or CRM systems, if such integration is provided.

User Training:

- creation of instructions and documentation for users on how to work with the web application;
- conducting trainings and demonstrations for staff in order to increase their competencies in working with the system.

A detailed and properly implemented deployment process ensures effective integration of the web application into the business processes of the flower shop. This allows for improved order processing speed, accuracy of record-keeping, and overall staff productivity, providing a user-friendly and secure interface for the user experience.

As a result of the study, the following conclusions were obtained:

1. The developed web application is relevant and necessary in the field of property management. It allows the store to improve order processing efficiency, reduce errors, ensure order fulfillment accuracy, and improve customer experience.

2. The implementation of the web application helps to optimize processes, reduce the administrative burden on staff, and increase the overall productivity of the store.

3. The analysis of existing order accounting systems made it possible to identify their problems and limitations. The developed web application takes into account these shortcomings and provides effective solutions to eliminate them, including a user-friendly interface, automatic report generation, and integration with the customer database.

4. The results of the study confirm that the web application can be successfully implemented in small and medium-sized flower shops. It will contribute to improving management accounting, reducing errors in orders and increasing the efficiency of personnel.

5. The developed web application is of great practical importance, as it allows you to keep records of orders, control the availability of goods, generate reporting data and facilitate communication with customers.

Therefore, the created web application for accounting for orders in a flower shop is an important step towards automating business processes. Its implementation can provide an increase in productivity, accounting accuracy, and overall store efficiency.

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Можна використовувати в локальному та мережному режимах

ІТ-ПРОСТІР СЬОГОДЕННЯ: ТЕНДЕНЦІЇ,
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