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Creation of Online Recipe System Digitalized by Software Using PHP and MYSQL Technologies

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Abstract. This article provides information on creating a software digitized online recipe system using PHP and MYSQL technologies. In the article, the problems of connecting PHP and MYSQL are considered, analyzed, and as a result, the algorithm for connecting PHP and MySQL technologies is presented. Several connection methods of PHP and MYSQL were discussed and the most efficient method was taken as the solution.

Keywords. PHP, MySQL, web applications, technologies, platforms, database, codes, programming, sites, server.

Currently, the formation of work in all areas of our society, as well as in the field of medicine, with the support of modern science and technology tools and software tools is one of the demands of the day.

Introduction. The use of software and digitization in medical associations, starting from the reception of a patient, making a diagnosis and forming a prescription for medicine, is also the basis for the formation of a system of material and moral protection of people.

In this article, we will consider the digitalization of the list of medicines given to patients by doctors, which is one of the above issues.[1]

We recommend using PHP and MYSQL to create a software digitized system for digitizing the list of prescription drugs.

As we know, there are several ways to connect PHP and MYSQL, and the connection methods are analyzed to find the most convenient and easy way, and the most effective method is obtained as a result.

Main part. PHP (Hypertext Preprocessor) is a server-side programming language. PHP is widely used in web application development. PHP can be combined with HTML to create dynamic web pages. It is a programming language that is easy and convenient to create web applications. This makes it easy to integrate with multiple databases. Provides the ability to read, write, modify and delete data.

MySQL is a database management system. It is commonly used in conjunction with PHP and is widely used to store data on websites. When used with PHP, it acts as a database management system for web applications. MySQL stores data in a table and column structure and uses SQL (Structured Query Language) to search, insert, modify, and delete data. It also allows users to work with the right queries and data.[2]

Many researchers have conducted research on the creation of software digitized systems, which provide information and guides that help in the development, control and management of software digitized systems. This literature contains the latest experiences, methods and guidelines in the field of Software Digitized Systems.

For example, the literature [3] is an important guide to support faster production and deployment of software-based digitized systems. This book presents the best practices, techniques, and guidelines in the field of Software-Enabled Systems.

Reference [4] contains information on using the Python programming language for Software Digitized Systems, including Installing Software Digitized Systems, Data Entry and Analysis, Acquisitions, Loading and Adding Data, Data Practices for automating popular activities such as database management using Python are shown.

The literature is related to the DevOps methodology in [5], which describes the methods and practices of creating and using software digitized systems.

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These literatures are important resources to help you create and use a software digitized system. By using them, it is possible to effectively study the processes of implementation, control and management of software digitized systems.

Software digitized system creation methodologies are one of the important steps in the system development process. The following main methodologies are implemented in the process of creating a software digitized system. (Figure 1)

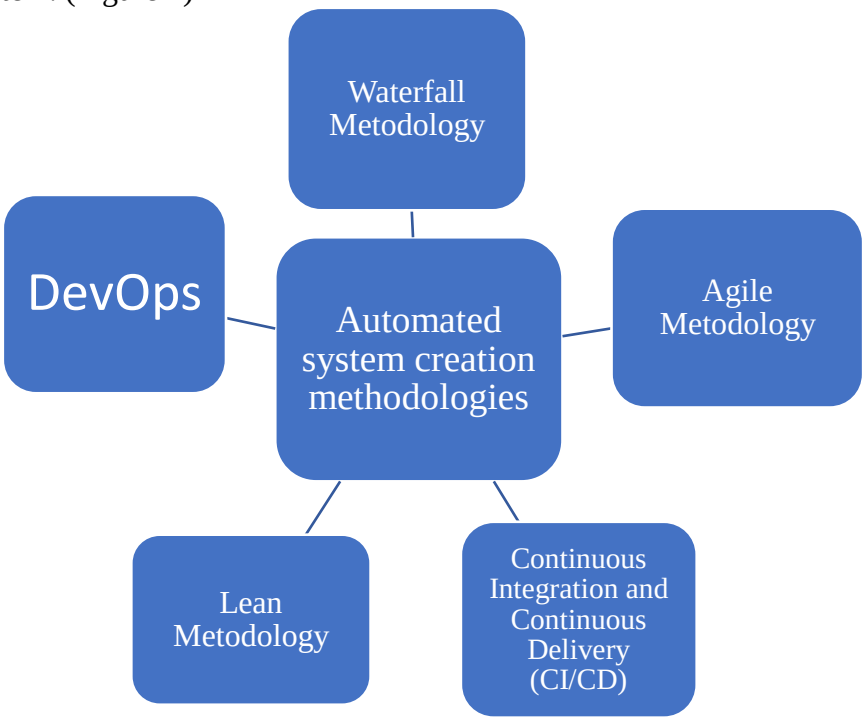

Figure 1. Methodologies for creating a software digitized system

These methodologies are widely used in the development and management of software digitized systems. Each methodology offers its own opportunities. The selection and adaptation of the appropriate methodology in the process of system development depends on the characteristics of the project, the requirements of the organization and its capabilities.

Connectivity technologies between PHP and MySQL are important technologies used in web programming to provide database connectivity.

Also, these technologies are the common and recommended technology for connecting to the database in PHP, and they follow security principles, external data validation and query for correct and safe data usage. It is also important to include parameters in the rows.[6]

Using these technologies, it is possible to connect PHP to MySQL, create queries, and perform actions. It can also be used to create, modify and delete data.

Discussion. There are several advantages and disadvantages of creating an online recipe system using PHP and MySQL technologies, and after analyzing and discussing them, the most effective solution for automating the online recipe system was chosen.

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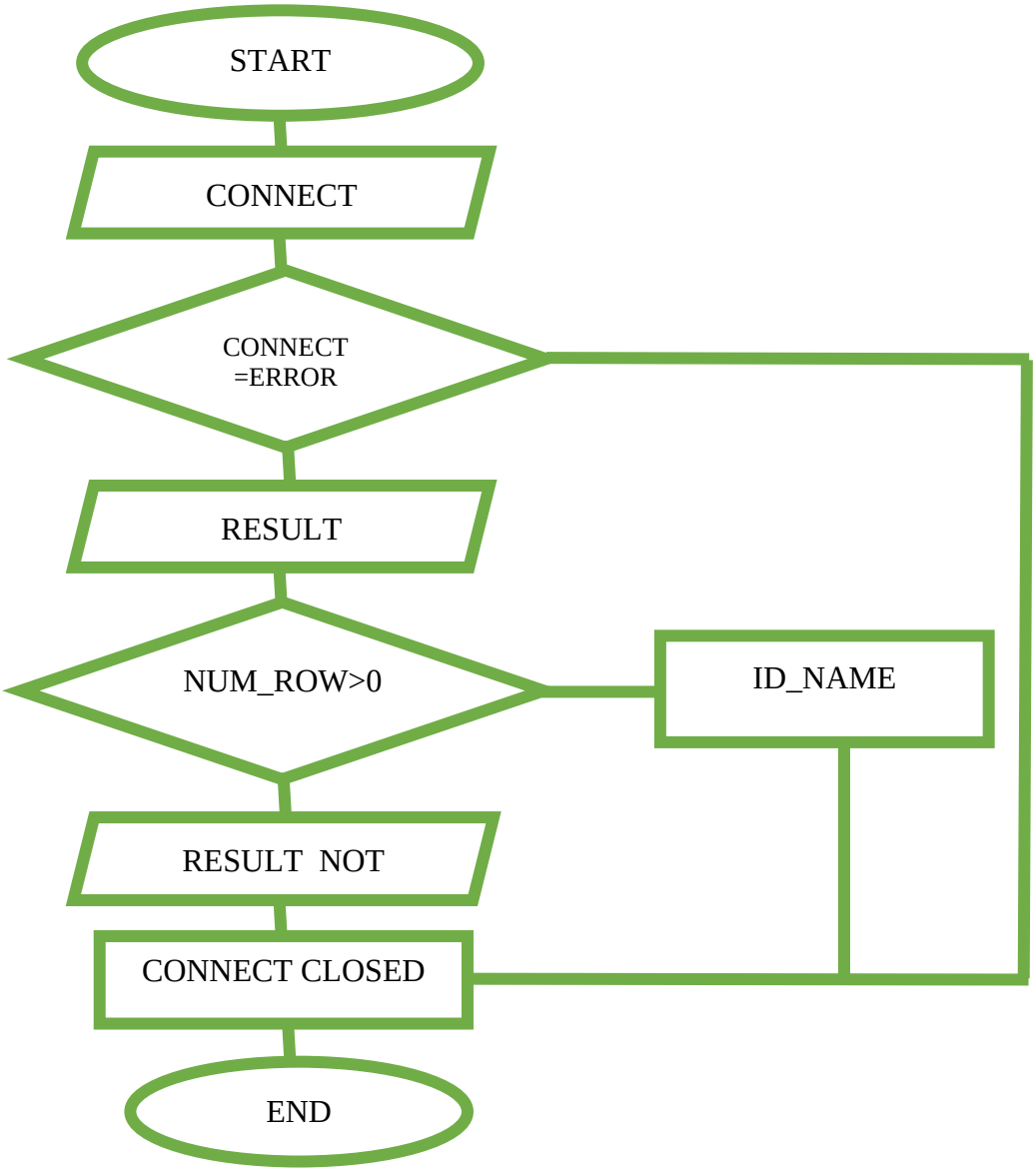

Figure 2. PHP and MySQL connection algorithm

There are several advantages of creating an online recipe system using PHP and MySQL technologies:

1. Easy access to internal and external users - the system provides open and easy access for users. Provides system registration and access for users.

2. The system is easy for external users - the system provides access to online tariffs for external users. This will help get your site in front of more people.

3. Easy data search - the system provides easy data search for users. This makes it easier for users to search and bring them back to your site.

4. Easy tariff addition - the system makes it easy to add tariffs and helps to add new tariffs in the system.

5. Data storage in the system - provides the possibility to save data about the system, all tariffs and users. This provides an easy and efficient way to work with data in the system.

6. The possibility of advertising - the system provides an opportunity to receive advertising and thereby receive financial income. This will help you improve and manage your system.

7. Automatic functions of the system - PHP and MySQL allow adding automatic functions to the system.

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8. System security - PHP and MySQL provide additional security protection to ensure system security. This protects users' data and other information on the system.

9. User-friendly editing interface - the system provides user-friendly editing interface. This makes it easy for users to change, delete or add rates in the system.

10. Data analytics - allows to analyze how the system, users and tariffs are used. This will help ensure better use of system data and improve your site.

11. Mobile applications - PHP and MySQL also provide the ability to create mobile applications. This helps your system to be used on mobile devices and allows your system to reach more people.[7]

These are some examples of the advantages of creating an online recipe system using PHP and MySQL technologies. These technologies help make the system more efficient and convenient, and provide an easy way to manage the system.

The following disadvantages may appear when creating an online recipe system using PHP and MySQL technologies:

1. Security issues. The online prescription system is associated with database access, modification and deletion operations. Security flaws may disappear. In this case, it is necessary to install protection against SQL-injection, authentication and authorization systems. It is critical to provide facilities for checking and filtering user input, passwords and confidential information.

2. Data model and sources. A suitable data model should be created to store the recipes and their data. Proper sorting, distribution, and indexing of data can also have drawbacks. Also, it is necessary to connect the data and ensure their constant synchronization.

3. Performance. An online prescription system can contain a large amount of information and queries. This affects the execution speed of the database and PHP scripts. In other words, it will be necessary to optimize the system, ensure the correct operation of the indexes, optimize the queries and increase the load speed of the system.

4. Work on the network. The online prescription system works interactively with users. This increases network traffic. Additional bottlenecks need to be addressed for network connectivity and load shedding. These issues can be solved by data distribution protocols (HTTP, HTTPS), file uploads, caching and compression.

5. Scalability. If the system grows with the number of users, it will be necessary to ensure that the number of data and the amount of requests also increases. Correct data model, server pooling, proper use of available resources, caching, and speed deficiencies in the code to ensure that a scalable system can be added directly requires.

As a conclusion, we can say that digitalization of medical records with the help of software allows us to speed up the work in the process, prevent excessive human agitation, and in general, create a protection system.

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