

## Prospects For The Development of Electronic Trade Processes Based on Local Characteristics

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**Abstract:** The article presents the opportunities and prospects of the digital economy and the factors that determine them. Information was provided on the software part and additional programs in the organization of e-commerce processes.

**Keywords and phrases:** e-commerce, digital economy, information and communication technologies, online, CMS, PHP, SQL, MySQL, phpmysqladmin

**Introduction.** If you look in the media today, you can see many articles about the achievements of our country in the field of information and communication technologies. The growing level of information transfer through local and international Internet channels in our country also creates the basis for the introduction of e-commerce systems based on information and communication technologies. In particular, electronic document management systems are being introduced, electronic payments are being developed and the regulatory framework created in the field of electronic commerce is being improved. In order to implement the Law of the Republic of Uzbekistan "On e-commerce" in our country, large-scale measures have been taken to further develop e-commerce with the widespread use of modern

information and communication technologies. The adoption of laws in the field of e-commerce dates back to 2004. Resolution of the Oliy Majlis of the Republic of Uzbekistan No. 614-II on the implementation of the Law of the Republic of Uzbekistan "On electronic commerce" [1] was signed on April 29, 2004. Later in 2004, the law was amended. The Law of the Republic of Uzbekistan "On Amendments and Additions to the Law of the Republic of Uzbekistan" "On Electronic Commerce" [2] was adopted.

**Material and Methods.** "The Internet is changing our perception of distance and time. The scale of the network is a new dimension of information and human relations today" [3]. The description of this network focuses on e-commerce processes. E-commerce is one of the fastest growing industries in recent times. It has several advantages over traditional trade. This can save the user time, travel money, and other costs. Goods ordered through the delivery service can be delivered to the address without overpayment. A ready-made CMS (content management system) can be used to automate all processes. For example, you can specify Wordpress, Drupal, Joomla, OpenCart, OcStore and others. These systems can be handy for e-commerce management and can be driven by plugins when needed for an on-demand site. For information: Wordpress is

completely free platform. All plugins developed for this platform are also free. Activation of additional functions only for plugins can be paid at the request of the author. Using the ready-made CMS below, you can create and use a new plugin to customize it based on a specific plan after installing it on a registered domain and hosting. Knowledge of programming languages HTML, CSS, PHP, MySQL is necessary if you need to make any changes when it is necessary for Wordpress CMS. The previous articles published have talked about creating a PHP plugin for the Wordpress CMS. This article is devoted to working with a large number of databases and is a continuation of previous articles. Working with the database is one of the most important aspects when creating a plugin. A site created in Wordpress usually has three sections: the Wordpress installation process, theme, plugin, and other downloaded files and databases. Many Wordpress users usually don't have direct contact with the database. Users may not even know that the database is available for the site to operate. Wordpress unambiguously accesses the database when opening any page. The WordPress system uses a MySQL database. That is why we will focus on this database.

A database is a series of sorted data. MySQL is a database developed by a Swedish company and later acquired by Oracle Corporation. This product is provided under the corporation's own commercial license and the GNU General Public License. GNU General Public License - This type of license is an open source license for general use. In some cases, the abbreviation GNU is also used in the GPL notation. Anyone can modify the software under this license.

**Discussion.** According to Wikipedia, the first version of MySQL was released in 1994 and was written in the C programming language [4]. Typically MySQL is used as a server to which

local and remote clients can connect. In a database management system, you can work with different types of tables. Based on the open licensing of this system, new types of tables are constantly being created.

MySQL is a database management system that provides a framework for communication across many modern programming languages. Database connection via the MyODBC driver is now available on virtually all Microsoft Windows operating systems and on many Unix platforms. However, the largest Facebook, Twitter, YouTube, Google and Yahoo! the giants also use this MySQL database.

Please note that MySQL and SQL are different. Although the two bases are similar to each other, there are differences. Microsoft created SQL Server in the 80's. SQL Server serves as a foundation for developers of software based on .NET technology. We can say that MySQL should be used together with PHP. There is a significant difference in syntax. But many operators are similar in both systems. Compared to the differences in the programming environment, SQL Server performs better in the .NET environment. MySQL works well in almost all languages, but PHP is shown as the main reference. From a security point of view, the following points can be noted. Both systems are EC2 compliant. According to hostinger.ru, SQL, a Microsoft product, has the most advanced security system. Dedicated Security - Microsoft Baseline Security Analyzer (MBSA) provides security guaranteed by SQL Server. [five]

In MySQL, clients connect to the server over the network. Each client sends a request to the server through the GUI and gets the desired result.

WordPress executes SQL queries using PHP. CRUD (create, read, update and delete) technology is used to execute queries.

The WordPress system database is located in the database of the selected host and then copied to

the MySQL server. All data is stored in the database in tabular form. Each table contains unique data and is stored in rows. Usually, when you install WordPress, a database is also created. A WordPress database usually contains the following main tables:

- wp commentmeta - each comment will contain unique information. This unique information is metadata.

- wp comments - All WordPress comments are stored in this table.

- wp links - this section stores information about the link.

- wp parameters - section that stores WordPress settings and parameters.

- wp postmeta - each post has its own unique information. This information is metadata.

- wp posts - This section contains WordPress articles, pages, navigation menus.

- wp termmeta - the term contains metadata.

- Terms p wp - This section contains posts, categories and link tags.

- wp term links - information related to tags and categories of the wp\_terms table.

- wp term taxonomy - contains taxonomic information for entries in the wp\_terms table.

- wp usermeta is a section containing unique metadata for each user.

- wp users - list of users.

**Results.** You will need to familiarize yourself with the commands for executing SQL queries. These queries can be the best choice when you need to optimize your website. For example, spam comments are a collection of redundant and unnecessary data for the database. To get rid of them quickly and easily, just use the following command:

```
DELETE FROM wp_comments WHERE  
wp_comments.comment_approved = 'spam';
```

Or let's look at another example. To delete old posted posts, you need to make the following request:

```
DELETE * FROM `wp_posts`  
WHERE  
`post_type` = 'post'  
AND  
DATEDIFF(NOW(), `post_date`) > 30
```

Data exceeding 30 days from the date of publication in this request will be deleted. It is always recommended to keep a backup of the database while working with it. This can prevent many errors.

To write SQL queries in PHP, you can use the following construction:

```
global $wpdb;  
$wpdb->query("write SQL query here");
```

Sometimes when you delete unnecessary records from the site, when you delete records in the database, the tags are saved. Such unnecessary data only increases the size of the database. To remove such empty and unnecessary shortcuts, simply run the following query:

```
DELETE FROM wp_terms WHERE term_id  
IN (SELECT term_id FROM wp_term_taxonomy  
WHERE `count` = 0);
```

```
DELETE FROM wp_term_taxonomy  
WHERE term_id NOT IN (SELECT term_id FROM  
wp_terms);
```

```
DELETE FROM wp_term_relationships  
WHERE term_taxonomy_id NOT IN (SELECT  
term_taxonomy_id FROM wp_term_taxonomy);
```

It runs 3 queries against the wp\_terms, wp\_term\_taxonomy and wp\_term\_relationships tables. The first request deletes data with a counter value of 0.

The following query removes all empty terms in the existing taxonomy (category, post\_tag). If it is necessary to restrict the request, for example, only with tags, then the request will be as follows:

```
DELETE FROM wp_terms WHERE term_id  
IN (SELECT term_id FROM wp_term_taxonomy  
WHERE taxonomy='post_tag' AND count=0);
```

When deleting data from the database, it is necessary to optimize the table as much as possible. This means that if a large amount of data is removed from the database, the database will need to be optimized. To do this, you need to make the following request:

```
OPTIMIZE TABLE `wp_terms` ,  
`wp_term_taxonomy` , `wp_term_relationships`;
```

What if you need to change the user's password? Sometimes in life you can forget the user's password. In this case, you can login via phpMyAdmin and execute the following SQL query.

```
UPDATE wp_users SET user_pass =  
MD5('newpass') WHERE user_login = 'admin'
```

"Newpass" is set as the password for the "admin" user. Password encryption type is MD5. MD5 is a 128-bit hashing algorithm developed in 1991 by Ronald Rivest, a professor at the Massachusetts Institute of Technology. Designed to distribute "fingerprints" or messages of arbitrary length with subsequent verification of their authenticity. It is widely used for data integrity checking and password hash storage. [7] After searching and studying many Internet sources, we can conclude that it is impossible to decrypt encrypted data in accordance with the MD5

algorithm. Because he was created for this.

It is not possible to change the login on the WordPress platform. Displayed once during registration. But if necessary, the login can be changed via phpMyAdmin. To do this, execute the following SQL query:

```
UPDATE wp_users SET user_login =  
'administrator' WHERE user_login = 'admin'
```

Username changed from "admin" to "administrator". Using the same method, you can change the names of other users as needed.

Sometimes it becomes necessary to deactivate all plugins on the WordPress platform. For example, if an unverified plugin is installed, it can disrupt the platform or cause the site to not load at all. In this case, it is impossible to enter the platform. To do this, you can access the host on the platform via FTP and delete the plugin folder. Alternatively, you can disable plugins using a SQL query. Disabling active plugins is shown below:

```
UPDATE wp_options SET option_value = ''  
WHERE option_name = 'active_plugins'
```

All requests can be sent in PHP code. You can also enter this field in the SQL section of the phpMyAdmin panel. The panels "Export" and "Import" should be noted here. These panels can be used to export and import SQL databases. If possible, it is recommended that you export and maintain the current database before executing each important transaction. When exporting, you must select one of the "Fast" or "Normal" methods. After choosing the "Normal" method, it is recommended to pay attention to the following parameters:

- If the size of the database file is large, you should select "Compression: zip";
- Copy the database backup by selecting the

INSERT, UPDATE, REPLACE values from the "Use statement to save data:" option in the "Data creation options" section;

- Leave the rest of the parameters unchanged if not necessary.

If you follow these guidelines, a database with three parameters appears. With these three databases, it will be easy to restore your existing database at any time. The INSERT parameter values are useful when new records are being made to the database. Updates the old values of an existing database with the UPDATE parameter. With the REPLACE parameter, existing values are overwritten with new ones.

**Conclusion.** Based on the above, it can be said that the e-commerce process can be managed through Wordpress CMS and WooCommerce. On the territory of the Republic of Uzbekistan, through this CMS, you can manage e-commerce, online store. Based on local functions, you can create and use a new plugin when you need to customize and simplify these processes.

Although various online courses and videos on programs, plugins and themes in Uzbek have been created recently, their shortcomings such as the level of comprehensibility, popularity, simplicity and inability to reach a wide audience are becoming apparent. Unfortunately, it's a shame that users who want to teach in this area and create videos are looking to make more money than the quality of the information provided. Such "teachers" can lead to the fact that students on the threshold of new learning will misunderstand and not see the horizons of the field. Therefore, it is advisable to establish the following requirements for the content created on the selected topic: the level of coverage of the topic, its simplicity and clarity, the accuracy for which the selected topic is intended, the content is grammatically correct.

## References

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