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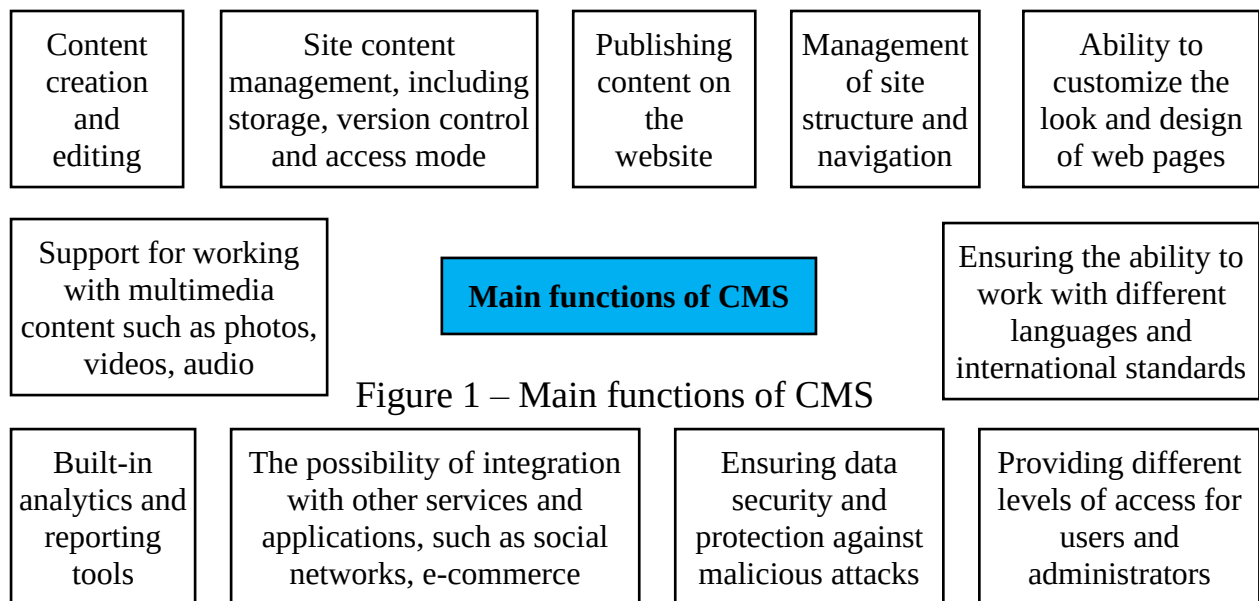
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THE USE OF CMS AS A MECHANISM FOR DEVELOPING INTERNET RESOURCES IN IT PROJECT MANAGEMENT

CMS or Content Management Systems are essential tools for developers, administrators and web project owners as they simplify the process of adding and managing content to a website. Their main advantage is that they allow you to do this without the need for deep programming knowledge, which makes them accessible to a wide range of users. Thanks to the use of CMS, users can easily manage the content of the site, add new pages, publish news or updates without the need for additional technical skills. However, in order to achieve maximum productivity and effective site management, it is useful to familiarize yourself with the principles of operation of a specific CMS and study the instructions for its use. This approach allows you to optimally use the system's capabilities and maintain the web project in an up-to-date and efficient state [1-2].

The list of CMS functions is extensive [3], the main ones are shown in fig. 1.



There are a large number of CMS systems available today, and some of the most popular include:

1. WordPress. It is one of the most common CMS systems, suitable for a variety of website types, from blogs to e-shops.
2. Joomla. This system is also very popular and has a large number of extensions for various needs.
3. Drupal. Drupal is used for complex websites with complex functionality and security requirements.
4. Magento. This is a specialized CMS for creating and managing electronic stores and trading platforms.
5. Shopify. It is an e-commerce hosting platform that allows you to create and manage online stores without deep technical knowledge.

These are just a few examples from the many existing CMS systems that should be considered depending on the specific needs and requirements of an IT project whose product will be a web resource. CMS are especially important in terms of improving the efficiency of IT project management and the quality of their product as a whole [4].

For the successful use of CMS, it is necessary to understand the advantages and disadvantages of using such systems (Table 1).

Table 1 – Advantages and disadvantages of the application CMS [3]

Advantages CMS	Disadvantages CMS
1) Significant cost savings. Using a CMS allows you to significantly reduce the costs of designing and further administering a web resource. This is expressed in savings on the services of a professional developer, since the simplicity of the functionality allows an employee without special education to create a simple web resource. When choosing a freely distributed CMS, the cost of purchasing and updating the product is zero, and the resource owner only needs to pay for the server and domain name rent.	1) Limited customization options. While many CMSs offer significant customization options, they can sometimes be limited compared to custom-built solutions. Some universal features can be difficult to modify or extend as needed.
2) Unification of the code. Due to the use of standard functions and procedures in CMS, the code becomes unified. Simple layouts of web resources are created by installing and configuring typical CMS modules using an intuitive interface with good information and help support.	2) Dependence on plugin and extension developers. Using third-party plugins and extensions may cause security or compatibility issues, especially if these extensions are not supported or updated.
3) High level of security. CMSs provide a relatively high level of security for web resources because the basics of safe use are built into the product code. CMS are universal and intended for mass use, which allows us to talk about their security and relative resistance to attacks.	3) Speed and performance. Some CMSs can be less efficient in terms of speed and performance compared to other development methods, especially for large and complex websites.
4) CMS modularity. Web resources built on CMS have practically unlimited possibilities for development. To add new functionality to the project, a standardized module – plug-in is added.	4) Security risk. The use of popular CMS can make web resources vulnerable to attack, as attackers often find vulnerabilities or exploits for widely used systems.
5) Integration with search engines and social networks. CMSs are easily integrated with search engines and social networks, which opens up additional opportunities for owners and users of web resources.	5) Limited design flexibility. Some CMSs may have limited flexibility in web page layout and design, which can lead to a sense of limited creativity.
6) Amount of accompanying information. The number of publications devoted to various aspects of the use and operation of popular CMS far exceeds the amount of information on individual developments.	6) Large code size. The larger and more complex the CMS, the greater the volume of code, which can affect the speed of loading web pages and the performance of the site as a whole.

The use of CMS in IT project management can be interesting and useful. A few possible applications are listed below.

CMS application option 1. Management of project documents. A CMS can be used to store and organize project documentation such as requirements specifications, technical documentation, project plans, and progress reports. With the help of special plugins or modules, you can create convenient directory structures, version control systems, and the ability to share documents for IT project participants.

CMS use case 2. Team works together on content. A CMS allows different team members to work together on project content such as articles, blogs, news, etc. Users can have access to different levels of rights, as well as the ability to comment and review content. This facilitates convenient collaboration and exchange of ideas among the team.

CMS application option 3. Management of tasks and IT project plans. A CMS can be used to create a project management system for tasks and plans. With the help of special modules or plugins, you can create lists of tasks, distribute them among team members, set deadlines and track progress. This helps to ensure the organization and timeliness of tasks in the IT project.

CMS application option 4. Creating a knowledge base and instructions. A CMS can be used to create a centralized knowledge base that stores instructions, documentation, FAQs, and other useful materials for project participants. A convenient interface allows you to quickly find the necessary information and update it if necessary.

CMS application option 5. Creating a knowledge base and instructions. Organization of communication and exchange of ideas: CMS can be used to create forums, chats or blogs where project participants can discuss issues, share experiences and ideas. This helps to improve communication in the team, stimulates collective thinking and promotes the development of creative solutions.

The use of CMS in IT project management is an important mechanism for quick creation, effective management and joint work on Internet resources, which contributes to increasing productivity, reducing costs and facilitating the process of interaction in the IT project team.

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FORMATION OF THE INFORMATION STRUCTURE OF THE IT PROJECT FOR THE DEVELOPMENT OF AN INTERNET SERVICE FOR FINDING TEMPORARY WORK

The importance of forming an information structure for the IT project of developing an Internet service is determined by the rapid development of technologies and the growth of user requirements for ease of use and efficiency. In light of the constant changes in the Internet environment, the optimal organization of information becomes an important component of the successful implementation of the project. Providing easy access and a clear interface are becoming essential to attract and retain users. The information structure reflects the simplification and optimization of interaction between users and the service, which is critical in a competitive digital environment [1].

Based on the requirements for the IT project, a high-level architecture of the project was developed, which can be seen in fig. 1.