

**СЕКЦІЯ: ІНСТРУМЕНТИ, МЕТОДИ ДИСТАНЦІЙНОГО ТА
ЗМІШАНОГО НАВЧАННЯ В ЗАКЛАДАХ ОСВІТИ**

TOOLS FOR CREATING A DIGITAL STUDENT PORTFOLIO

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In today's educational environment, a digital portfolio is becoming an important tool for students to present themselves, demonstrate their achievements, skills, and professional growth. Thanks to technological advances, creating such a portfolio no longer requires in-depth knowledge of web design or programming – there is a wide range of online platforms and applications that make it easy to structure, design, and update your portfolio. The choice of the appropriate tool depends on the student's goals, the type of content they want to present, and the level of interactivity they want to provide.

Web platforms for portfolios are very convenient for future teachers who want to quickly and effectively showcase their work in the SMART University system at Ternopil Volodymyr Hnatiuk National Pedagogical University. Some of the most popular web services for creating portfolios include Behance, Dribbble, and Adobe Portfolio [2].

Behance is one of the largest web services for creative professionals, developed by Adobe. It allows you to create a professional portfolio that can include images, videos, audio, and other types of media. Behance offers a variety of templates and tools for designing your portfolio, as well as the opportunity to connect with other creative professionals and attract the attention of potential clients or employers.

Dribbble is a web platform specializing in design and illustration. It allows creators to create profiles, add their work, and communicate with other professionals in their field. Dribbble also provides the ability to create collections of work and receive feedback from the community.

Adobe Portfolio is a tool that is part of the Adobe Creative Cloud package. It allows users to quickly create impressive portfolios using ready-made templates and tools. Adobe Portfolio is integrated with other Creative Cloud applications, allowing you to easily and quickly import your work from applications such as Photoshop, Illustrator, and InDesign [1].

These web platforms allow creators to quickly build professional online portfolios without needing to know how to code or design websites. They provide a convenient way to showcase your work and attract the attention of potential clients or employers.

Creating your own website is a great option for students who want maximum control over the look and functionality of their portfolio. There are two main ways to create your

own portfolio website: using a content management platform such as WordPress, or developing your own website using HTML, CSS, and JavaScript.

WordPress is one of the most popular platforms for managing websites. It offers a wide range of options for creating websites of varying complexity, including portfolios. With the themes and plugins available for WordPress, you can easily customize the look and functionality of your portfolio. In addition, WordPress provides a convenient interface for managing content, allowing you to quickly add, edit, and delete works.

Another option is to develop your own website using HTML, CSS, and JavaScript. This approach gives you maximum control over the design and functionality of your portfolio. You can create your own unique design and use web development technologies to create interactive effects and animations. This method may require more technical skills and time, but it allows you to create a website that fully meets your needs and style preferences.

Any of these approaches can be effective for creating your own portfolio. The choice depends on your skills, needs, and design preferences. Whatever you choose, it is important to focus on making your site user-friendly and effectively showcasing your skills and achievements.

Using graphic editors and design software is a key aspect of creating a professional and attractive portfolio. Some of the most popular programs for this include Adobe Creative Suite (Photoshop, Illustrator) and Sketch [3; 4].

Photoshop is one of the most popular programs for editing and processing photos and graphic images. You can use Photoshop to create and edit project images, create website layouts, and retouch and correct photos.

Illustrator is designed for creating vector graphics such as logos, illustrations, and other graphic components. It provides a variety of tools for creating complex, high-quality graphic elements that you can use in your portfolio.

Sketch is a popular tool for designing user interfaces (UI) and vector graphics, especially among web designers and mobile developers. It provides a wide range of tools for creating layouts for websites, mobile applications, and other interfaces with great speed and efficiency.

Using these programs allows you to create professional and aesthetically appealing graphic components for your portfolio. They provide many opportunities for creative expression and creating a unique style for your portfolio, which helps you stand out from the competition and attract the attention of your target audience.

Programming and using frameworks can greatly simplify the creation of your portfolio's design and functionality. Using HTML, CSS, and JavaScript will allow you to create a unique design and add interactive effects to your portfolio, while using popular frameworks such as Bootstrap or Foundation will simplify the process and make your portfolio more responsive and compatible with different devices.

CSS is used to style your website and give it the look you want. With CSS, you can customize colors, fonts, spacing, borders, and more to make your portfolio more attractive and professional.

JavaScript allows you to add interactive effects to your portfolio, such as animations, sliders, user interaction, and more. You can use JavaScript to improve the user experience and make your portfolio more dynamic and engaging [5].

Bootstrap or Foundation – frameworks provide a set of ready-made components and styles that can be used to quickly build websites. They allow you to create responsive and mobile-friendly designs that adapt to different devices and screens.

Using these technologies and frameworks makes it possible to create an attractive, functional, and dynamic web portfolio that reflects the individual skills, abilities, and professional competencies of each student.

Using a content management system (CMS) such as WordPress is an important aspect of creating and maintaining your web portfolio. WordPress is a powerful and well-known CMS that provides many opportunities for conveniently updating and adding new content to your portfolio without having to interfere with HTML code.

Using WordPress as a content manager will allow you to effectively manage your portfolio, add new work, and update content without having to mess with complex HTML code.

Analysis and optimization are important for understanding how your portfolio works and how it can be improved for a better user experience. Using analytics tools, such as Google Analytics, can help you with this.

Google Analytics provides detailed information about how many people visit your portfolio, their traffic sources, user behavior on the site, and many other useful statistics. This will help you understand which parts of your portfolio attract the most attention and which can be improved.

Based on the analysis of data from Google Analytics, you can test different design, content, and functionality options for your portfolio. This will allow you to identify the optimal changes that will improve the user experience and performance of your portfolio.

Google Analytics can also help you evaluate the effectiveness of your SEO strategy. You can track key metrics such as the number of visits from search engines, keyword rankings, and more, and make appropriate adjustments to increase the visibility of your portfolio in search engines.

Overall, using analytics tools, such as Google Analytics, allows you to gather valuable data about your portfolio and take steps to optimize it for a better user experience and greater effectiveness.

Integrating these practices into your portfolio creation and management process will help you develop a more effective and audience-friendly portfolio. Conducting user interaction tests allows you to identify weaknesses and problems, and collecting feedback provides valuable insights for improving design and functionality. Implementing changes based on the analysis of this data helps improve the quality of your portfolio and ensure the best experience for visitors. This approach helps increase the effectiveness of your portfolio and improve your professional reputation.

A digital portfolio is not only an archive of achievements, but also a means of self-expression and professional positioning. There are many tools – from simple website builders to specialized educational platforms – that allow you to create an effective and aesthetically appealing portfolio. The choice of tool should be based on convenience, functionality, the ability to integrate with other services, and relevance to the student's academic or career goals. Regularly updating your portfolio helps develop the future teacher's skills of reflection, planning, and presentation of their own experience.

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ОРГАНІЗАЦІЯ КОМАНДНОЇ РОБОТИ ЗДОБУВАЧІВ ОСВІТИ ПРИ ВИКОНАННІ ПРОЄКТІВ З ПРОГРАМУВАННЯ В ОНЛАЙН-ФОРМАТІ

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Сучасна ІТ-індустрія характеризується високим рівнем командної взаємодії. За даними досліджень Stack Overflow Developer Survey, понад 87 % розробників працюють у командах від 2 до 10 осіб і третина опитуваних працюють віддалено [5]. При цьому роботодавці все частіше акцентують увагу не лише на технічних навичках випускників, але й на їхній здатності до ефективної комунікації, колаборації та розподілу завдань у команді.

Традиційний на сьогодні підхід до викладання програмування, який орієнтований на індивідуальне виконання завдань, не забезпечує достатньої підготовки здобувачів освіти до реальних умов роботи в ІТ-компаніях – це часто наголошують на різноманітних вебінарах, курсах для викладачів представники ІТ. Відтак актуальною є розробка та впровадження методик, що поєднують засвоєння технічних знань з розвитком навичок командної роботи.

Метою дослідження було обрано методіку організації командної роботи здобувачів освіти при виконанні лабораторних робіт з інформатики (програмування) в онлайн-форматі з використанням сучасних цифрових інструментів.

Завдання, які ставилися: обґрунтувати доцільність використання командного підходу в процесі навчання програмуванню; розробити структуру навчального заняття з чітким розподілом ролей і терміном виконання; визначити оптимальні цифрові інструменти для організації командної роботи онлайн; сформулювати