

THE ELECTRONIC PORTFOLIO TECHNOLOGY IS THE MAIN TOOL TO ASSESS PERFORMANCE

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Abstract

These days, the way the educational process is organized uses a variety of techniques to assess learning outcomes, including written test papers (independent work), control papers, oral questioning, laboratory and practical work, testing, etc. The primary objective of these techniques is to evaluate a student's knowledge, skills, and talents in a specific field. Outside of the university, students' intellectual, personal, and “socially significant” accomplishments are not included in the assessment framework. In this sense, assessing the activities of those involved in the educational process requires the use of various techniques and technology. The electronic portfolio technology is one way to assess performance.

Keywords: assess, E-portfolio, implement, education, technology, student.

Introduction

E-portfolio technology is an assessment tool designed to gather, preserve, develop, and display individually noteworthy outcomes. The student must be aware of the standards for choosing resources for assessment, comprehend the standards for evaluating individual performance, and have the flexibility to display their unique attributes before they may compile their accomplishments into a portfolio. Thus, the e-portfolio is a new technology that needs to be implemented in order to evaluate students' academic, socially relevant, and personal accomplishments in addition to their educational and educational activities must be implemented into the practice of educational institutions.

The necessity to update the structure and content of the Russian educational system is a defining feature of its current development stage. This is achieved by introducing novel approaches to the organization, management, content, forms, and methods of instruction, as well as the evaluation of educational quality. The portfolio technology, which is one of these competence-based assessment tools, has been actively incorporated into educational institutions' operations.

“Portfolio” is derived from the Latin words “folium” (which means “sheet for writing”) and portare (which means “to wear”). A “portfolio” is a method of keeping track of, compiling, and assessing personal accomplishments.

The major goal of building a portfolio is to monitor a student's cultural and academic development by analyzing and presenting noteworthy outcomes of their professional and personal development processes as a future specialist. Building a student portfolio is important



since, in order to land a job after graduation, a graduate must convince a potential employer of his accomplishments and skills as a young expert.

A paper portfolio and an electronic portfolio are the two types of portfolios that have different information processing and presentation methods. Since it best embodies modernity, the demands of the knowledge economy, and the aims and objectives of smart learning, the latter kind of portfolio is growing in popularity and demand. In real-world applications, the electronic portfolio is a component of the e-learning approach, which is regarded as the 21st-century learning technology with the greatest promise.

There are numerous definitions of the term "electronic portfolio" found in scientific literature. V.Yu. is the abbreviation for a person's name. Pereverzev and S.A. Sinelnikov describe the electronic portfolio of students as a collection of student works gathered through electronic methods and media, showcased on either compact discs or a website.

An e-portfolio is more than just a product of labor; primarily, it serves as a means to showcase and assess a student's development both professionally and personally. Different types of e-portfolios are classified as follows:

Assessment e-portfolio: shows proficiency at a specific level within the constraints of the e-portfolio's capabilities. A medical school student submits an assessment portfolio to demonstrate they have met specific competency requirements.

E-portfolio presentation: demonstrates how the student's accomplishments align with the specified learning objectives. A programmer develops an e-portfolio presentation to showcase how the program codes he authored align with his educational certifications and work history.

Educational e-portfolio is a file which enables the tracking of skill development over time during the learning journey. The high school student's educational e-portfolio enables him to monitor the progress of his skills over the course of the year.

E-Portfolio for personal growth: keeps track of achievements and progress to showcase both self-assessment results and future development goals.

An active e-portfolio incorporates features from all mentioned types.

The e-portfolio can cater to the intended audience

- teachers need to assess the educational process' effectiveness and measure students' competencies with clear formal content requirements.
- peers, classmates, family members, buddies (aiming to foster a competitive atmosphere to boost educational motivation, enhance student confidence, and connect with similar individuals in a professional setting);
- potential employers (aiming to promote oneself, evaluating one's professional qualities as a student, and finding ways to improve oneself).



The following portfolio features are recognized:

- Diagnostic evaluation is the assessment of a student's individual progress, including determining whether they have mastered the material, succeeded or failed in completing tasks, and comparing their results to established standards and criteria.

Assessment - recognition of the aspects of the student's understanding of specific parts of the educational material to assess the extent of difference between their actual performance and the expected standards.

Certification involves sharing details on a student's training outcomes to assess if they have met the necessary educational standards for recognition.

- Rating indicates the level of developed general and professional competencies, skills, and abilities, which establish the student's position relative to other students.

Motivating students by enhancing their educational and professional drive, fostering their self-determination skills.

Organizational skills involve improving goal-setting, planning, and forecasting capabilities, as well as being able to self-manage tasks.

Operational refers to acquiring competencies in executing tasks while considering the circumstances of its progression and the capacity for personal growth within those tasks.

- Referring to oneself - the growth of abilities to assess one's own actions and learning experiences, the skill of introspection.

Management entails empowering students to take control of their personal and professional decisions, enabling them to autonomously shape their lives and careers.

Accounting and information involve gathering and accurately representing evidence of a specific level of professional and educational performance, as well as the student's progress in understanding the material provided to them.\

- Development – the student's progress in being able to complete tasks independently, considering feedback from external evaluations and self-assessment of their processes and outcomes.

- Informative - showcases the complete spectrum of tasks completed by the student.

- Rectifying - the establishment of a set of rectifying actions in regards to the organization of educational and vocational tasks.

These features enable you to record, collect, monitor, and assess a student's personal educational and professional accomplishments, as well as their progress in learning the primary professional educational curriculum; to establish

Taking ownership of the outcomes of educational and professional endeavors, as well as committing to continual personal and professional growth.

The attributes outlined in the portfolio indicate its potential as a means of showcasing a student's unique academic accomplishments, addressing the demands of modernizing education.



Environments designed for the creation of an electronic portfolio.

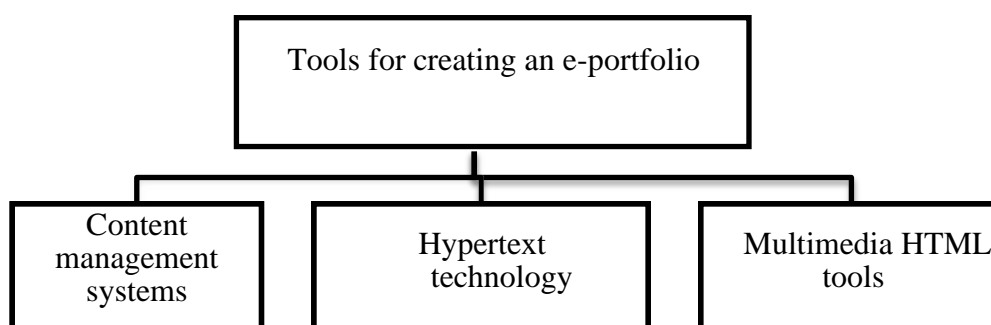
Selecting the tools needed to create an e-portfolio that fulfills a student's needs and desires can be quite challenging. Consideration should also be given to the particular educational activities that are planning to utilize an electronic portfolio.

Currently, there are enough software tools available for developing an electronic portfolio of accomplishments. Text editors and presentation software are predominantly utilized. One popular choice is to showcase a portfolio through a series of slides containing different navigation options. Normally, these portfolios are kept locally as files and require extra systems to be able to share them online. Examining and assessing these portfolios consumes a significant amount of time. Their typical form is typically basic and lacks complexity, while varying in both visual layout and subject matter. A portfolio may also encompass a set of web pages produced with a web editing tool. However, in order to create a portfolio using a web editor, you must understand the fundamentals of HTML, CSS, and possess professional expertise.

Additionally, it is important to mention the utilization of services and tools like a blogging platform and wiki for creating portfolios. These services and apps enable you to position information more accurately, conduct visual editing, but it is challenging to build a non-linear and visually appealing portfolio structure.

After examining the key characteristics, advantages, and disadvantages of different tools for making an electronic portfolio, we have identified their main aspects that allow us to classify them accordingly.

Classification of e-portfolio creation tools



Content management systems

- Google Sites
- uCoz
- Wix
- Weebly
- Jimdo
- 4portfolio
- Mahara



Google Sites

Google Sites is a simplified free hosting based on a structured wiki. Key features and functions of the program:

- support for wiki technology (an Internet technology that assumes the concept of free filling and modification of website content by readers using various tools provided by the site itself);
- the ability to work with other Google applications (Google Docs, Google Calendar, YouTube, Picasa);
- control of access to site materials;
- the ability to comment. Limitations:
- 100 megabytes (free account) and 10 gigabytes (Google Apps users);
- anonymous comments are prohibited, only authorized users can change the content;
- restrictions on the design settings: only the color scheme, font size and style are configured, JavaScript is not available;
- inserting some objects in the visual editor is only possible at the beginning of the page, you need to manually move objects to other places on the page.

uCoz

uCoz is a free website management and hosting system for websites created using it. uCoz modules can be used both in a single bundle to create a fully functional website, and separately, for example, as a blog platform, online store, etc. The main features of the system • there are 267 designs (templates) to choose from to create a website;

- You can design your own template or modify an existing one, changing the site's design at any time during its lifespan.
- There is a variety of site configurations available, ranging from the smallest option of 3 modules (Users, Site Search, Page Editor), all the way up to the largest option. Registration includes an allocation of 400 megabytes of disk space. More visitors and longer site lifespan result in more disk space; for uploading large files, consider linking a Deposit files account. There are no limits to the disk space available.
- There is no limit to creating/editing records and creating subdomains.
- Block Builder with a visual interface;
- Mobile-friendly website version for PDA;
- Restricted amount of backup;
- Signing up using social media platforms.

Wix

Wix is a cloud—based website creation platform used by millions of people around the world. With Wix, you can create a website yourself, without special knowledge and experience. No programming and complete creative freedom. Wix is an excellent designer for users who create simple business card sites or personal websites. Its interface is intuitive, and the solutions offered by the service are enough to quickly create simple websites. Advantages of the service:

- the ability to create websites in HTML5 and Flash;
- accompanied by detailed hints;



- a large selection of templates “by category”;
- the possibility of abandoning template design (the user can create a website himself using the elements and forms offered by the designer.);
- free domain name, premium users get the opportunity to connect their own domain names;
- creating and deleting pages;
- adding contact forms;
- using Google Maps;
- Setting up payment via PayPal and eBay;
- Adding video and audio;
- synchronization of the site with various social networks;
- Extremely intuitive interface.

Weebly

Weebly is a free online service for visual (WYSIWYG) website creation without the need for HTML knowledge, which also allows you to place a website on the Internet under a domain username.weebly.com or under the user's own domain. The main features of the designer:

- more than a hundred professional website design themes;
- fast and efficient technical support;
- easy maintenance of an integrated blog with the ability to insert photos, videos and audio, date and time zone format selection, automatic breakdown of posts by month and year, the ability to insert teaser body separators and much more;
- form builders: contact forms, RSVP (signature on the invitation, encouraging the recipient to give an answer about participation in the event and questionnaires);
- Image Perfect's own image editor, which allows you to add various visual effects;
- detailed traffic statistics (the ability to independently install the Google Analytics tracking code or the code of another service);
- no forced advertising with the ability to place your own from Google AdSense.

Jimdo

Jimdo is a free website management system developed in Germany and has 11 language localizations. Main features:

- protection against automatic form filling (CAPTCHA);
- User support;
- the possibility of self-configuration of the system;
- Ease of use;
- flexibility (multiple interface languages, multilingual site support, multi-site availability);
- built-in modules (banners, meta tags, web statistics, document management system, blogs, link exchange, customizable feedback forms, online store, payment systems, subscription).

Mahara

Mahara is a free portfolio website builder with built-in social network features. This is a ready-made portal where users can create their own information repositories. In addition, they can join various kinds of interest groups and associations, blog and send messages to each other,



open access to their repositories to each other, as well as leave feedback to each other after visiting friends' information repositories. The main features of Mahara:

- file management (uploading files to the site, creating folders inside your home directory, distributing files between folders, in general. Download limit (default is 50 MB));
- blogging (unlimited number of blogs, private, friends only or public);
- Groups and group memberships;
- creating a resume;
- Moodle compatibility (one account per two systems);
- distributed (the system can be hosted on several servers: users and blogs on one, file storage on another, views on a third).

To evaluate the e-portfolio, it is necessary to derive the evaluation criteria. The groups of main criteria are listed in Table 1 below e-portfolio evaluations: technical, ergonomics-design, informative, presentation, reflective.

Table 1.

Criteria for evaluating an electronic portfolio

Criteria	Description of the criterion
Technical	
The efficiency of all elements of the e-portfolio	Resistance to changes in the software package installed on the computer, stability of operation, the need to install additional software.
Using the capabilities of the e-portfolio creation tool	Matching the choice of a portfolio creation tool environment. The full use of the capabilities of the tool environment when creating a portfolio.
Replication of the e-portfolio	The ability to copy portfolio materials, replicate them, and use them remotely.
Ergonomics-design	
Multimedia components:	
– Interactivity	Adherence to the natural rules and principles of engaging with the intended audience; consideration, rationality, involving the active participation of users.
– Visualization	The unity of the visual image and content; the ease of recognition, readability, recognizability of the image by the user; the unity of the stylistics of the entire project.
– Soundtrack	Harmony of sound, visual range and content, voice accompaniment.
– Overall impression	The feelings that arise in the consumer after viewing the portfolio.
Communicativeness	Technical support for the user, the implementation of content updates, the ability to connect external programs, Internet resources.



Efficiency	Effective navigation, context-sensitive table of contents, search engine capabilities, context-sensitive help.
Traditional indicators of ergonomics	The optimal location of the control elements of the interface, the size of the control elements of the interface, the selection of the control elements of the interface by color, shape, sound.
Meaningful	
Content compliance	Compliance of the content with the purpose of creating an e-portfolio.
The variability of ways of presenting information	Various sources, test papers, photographs, drawings, texts, calculations, animations, multimedia presentations, video and sound recordings were used.
Authenticity	The information and materials in the portfolio are directly related to the tasks of the curriculum; meet the objectives of DTS training and the criteria for selecting materials.
Dynamism	The data in the portfolio is collected repeatedly, in accordance with the specified periods. The portfolio contains not only final, but also working versions of the work completed by a certain time, allows you to assess the dynamics and comprehend the course of training.
Clarity	Its purpose is clearly visible in the portfolio (for employment, admission to the next stage of education, etc.)
Integration	The materials collected in the portfolio reflect the complex integration of knowledge and skills into the acquired competencies, cover all types of activities.
Multi-purpose purpose	The portfolio can be applied in various real -world situations: participation in the portfolio competition, presentation of oneself to social partners, assessment of work for the semester, course, employment, additional education, etc.
Presentation materials	
Creativity	A non-trivial representation of the e-portfolio.
Logically structured	Correct and non-linear alignment of portfolio materials.
Completeness of the content	The depth of the presentation.
Ergonomics	Visibility and comfort of perception.
Reflexive	
Self-assessment of the results of the performed activity	The ability to determine the level of completeness of knowledge about the results of their work on the creation and protection of their portfolio.
Authorship	The portfolio clearly shows the responsibility and self-assessment of the student's achievements on each page, each competence.
The criticality and depth of the assessment of the activity process after creating a portfolio	Anticipating a possible outcome and its consequences.

The process of creating an electronic portfolio is very laborious, takes a lot of effort and time. In order to perform the work at a good level, it is necessary to have a certain level of information and communication competence; it is necessary to constantly record your achievements in



various aspects of your activity, that is, you need a clear self-organization of your own work; you need to regularly self-diagnose your professional activities in order to see your reserves.

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