



USING WEB SERVICES IN TEACHING INFORMATICS AND INFORMATION TECHNOLOGY

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Annotation. *The digitalization of teaching computer science and information technology in secondary schools and the use of modern multimedia technologies are covered, and the use of the Articulate Storyline software tool in teaching computer science and information technology in the 9th grade is presented.*

Key words: *multimedia, multimedia technologies, computer science and information technology, e-learning platforms, Articulate Storyline.*

In modern education, the use of web services plays a crucial role in teaching informatics and information technology. Web services help make the learning process more interactive, improve the quality of education, and enhance students' learning experience.

The use of multimedia tools in teaching informatics and information technology plays a significant role in making the learning process more effective and engaging. These tools encourage students to participate more actively and make it easier to understand complex topics.

We will discuss web-based services designed to create, customize, and effectively present graphic designs, focusing on Piktochart, Google Drawings, Visme, and VistaCreate. Each of these platforms has unique features and is suitable for different needs.

Piktochart is a web application designed for creating business presentations, infographics, and various visually appealing reports with ease. The service helps in producing engaging materials for marketing, sales, annual reports, concept implementation, project presentations, traffic generation, and other purposes.

Presentations are created in the form of infographics. Users can work with graphics by utilizing templates.

Piktochart Features:

- Over 300 professionally designed themes.
- Customization of text, charts, and colors.
- Maps, illustrations, and tables.
- Save, share on social media, or download in JPG, PNG, and PDF formats.
- Interactive graphics.
- Ability to upload images and generate HTML code (hyperlinks) for embedding on websites.
- Import data from Microsoft Excel.

Google Drawings

Google Drawings is a free application developed by Google and included in the Google Docs Editors web suite. It was first introduced on April 12, 2010. Its primary function is to create flowcharts, vector diagrams, and similar graphics. Additionally, it is available as an extension for the Google Chrome browser.

If you need a quick and easy tool for drawing diagrams or maps, Google Drawings is a great choice. To use it, all you need is a Google account.

Key Features:

- Ability to export files in PDF, SVG, JPEG, and PNG formats.
- Creation of Word Art objects.
- A wide range of customization options for flexible editing.
- Easy access to created designs from any mobile or desktop device.

Visme is a web-based service designed for quickly and easily creating visually appealing content. With a wide selection of professionally designed templates, users can effortlessly produce aesthetically pleasing materials for various purposes.

Key Features:

- Enables the creation of presentations, infographics, documents, charts and graphs, print materials, web graphics, social media visuals, videos, GIFs, and more.
- The free version offers only a preview mode, while the paid version allows users to download all created materials.

VistaCreate is an online graphic and video design editor that helps users create professional-looking visual and video layouts in just a few steps.

Key Features:

- Access to over 30,000 ready-made design templates, updated weekly.
- A library of over 200 million stock images and media files from Depositphotos.
- A collection of exclusive content curated by the VistaCreate content team.

Articulate Storyline is an advanced platform designed for creating interactive e-learning courses, presentations, and educational materials. In the 9th-grade Informatics and Information Technology course, this platform was used to teach the topic “Creating a Web Page.” It provided students with a visual and interactive learning experience, making the subject more engaging and comprehensible.

Advantages of Using Articulate Storyline:

- ✓ Interactive Learning – Enhances the lesson’s effectiveness by making it more engaging and dynamic.
- ✓ Multimedia Integration – Allows the use of text, audio, video, and animations to enrich learning materials.
- ✓ Simulations and Quizzes – Helps assess and reinforce students understanding through interactive activities.
- ✓ Flexibility – Compatible with various devices for seamless access.

With the help of this platform, teachers can explain the web page creation process in a clear and interactive manner, ensuring better knowledge retention among students.

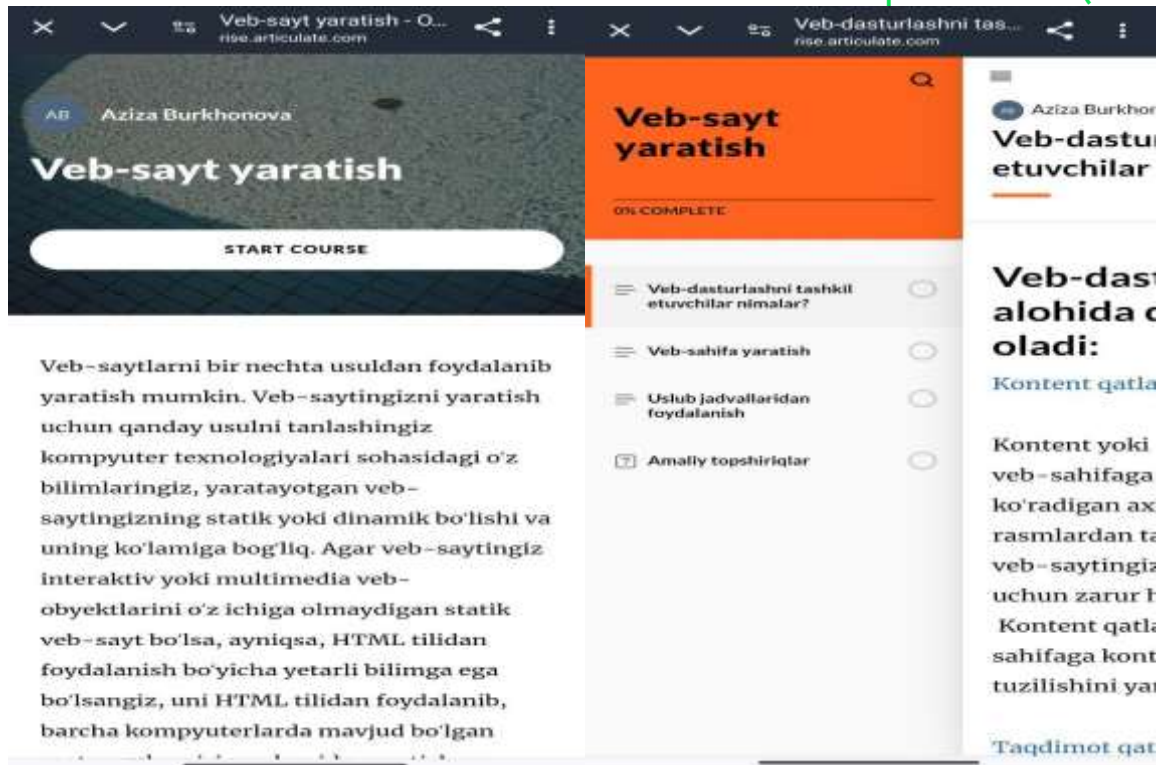
During the teaching of the topic “**Creating a Web Page**” in **9th-grade Informatics and Information Technology**, the **Articulate Storyline** platform (<https://www.articulate.com/>) was utilized. This platform enabled an interactive and engaging learning experience, allowing students to grasp web development concepts more effectively.

By using **Articulate Storyline**, educators were able to integrate multimedia elements such as text, images, animations, and quizzes, making the learning process more dynamic and practical. The platform’s interactive features helped students understand web page creation step by step, enhancing their comprehension and retention of the topic.

Articulate Storyline (<https://www.articulate.com/>) is an e-learning resource creation tool designed to be flexible, user-friendly, and suitable for developing various types of courses. It allows the creation of instructional courses, presentations, quizzes, and different content formats in Flash and HTML5, which can be viewed on iPads and integrated into remote learning systems.

One of the key advantages of this software is its highly intuitive graphical interface, making it easy for users to navigate. Additionally, it offers extensive design capabilities not only for content but also for the course developer's interface. Articulate products are convenient not only for content creators but also for learners using the courses developed with this tool. Below is the link to the platform:

<https://rise.articulate.com/share/iBLtsS2LXnG8802j5aX4RCMSyVsAp68G>



1-pic. Articulate storylife

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