



WEB DEVELOPMENT

“Let there be light,” and there was light.

THE INTERNET HAS BECOME AN INTEGRAL PART OF OUR LIVES, AND WEBSITES SERVE AS THE FOUNDATION FOR ESTABLISHING AN ONLINE PRESENCE. WHEN IT COMES TO WEBSITES, THEY CAN BE CATEGORIZED INTO DIFFERENT TYPES BASED ON THEIR FUNCTIONALITY AND PURPOSE.

WEB DEVELOPMENT OR WEBSITE DEVELOPMENT
MULTIVAC(AC)

WHAT'S THE DIFFERENCE BETWEEN WEB 1.0, WEB 2.0, WEB 3.0 ?

WEB 1.0: THE STATIC WEB (1990S - EARLY 2000S)

WEB 2.0: THE SOCIAL WEB (MID-2000S - PRESENT)

WEB 3.0: THE SEMANTIC WEB (EMERGING AND FUTURE)

INTRODUCTION

In today's digital age, having a website is essential for businesses, organizations, and individuals alike. A website acts as a virtual storefront, providing information, services, and products to users across the globe. Before delving into the different types of websites, let's first understand what a website is and why it is important.

WHAT IS A WEBSITE?

A website is a collection of web pages that are interconnected and accessible through the internet. These web pages are designed to present information, provide functionality, and engage with visitors. Websites can vary in size and complexity, ranging from simple one-page sites to extensive portals with multiple sections and features.

IMPORTANCE OF WEBSITES?

Websites play a crucial role in today's digital landscape. They serve as the primary medium for sharing information, promoting products and services, and establishing credibility. A well-designed website can help businesses attract potential customers, provide a platform for communication, and enhance brand visibility.

HOW MANY WEBSITES ARE ON THE INTERNET?

While the exact number of websites keeps changing every second, there are well over 1 **billion** sites on the world wide web (WWW) (1,079,154,539 according to Netcraft's May 2024 Web Server Survey).

1,079,154,539



ONE BILLION SEVENTY-NINE MILLION ONE HUNDRED
FIFTY-FOUR THOUSAND FIVE HUNDRED THIRTY-NINE

WE WILL EXPLORE THE THREE MAIN TYPES OF WEBSITES

EXPLORING THE TYPES OF WEBSITES

static websites

dynamic websites

E-commerce

STATIC WEBSITES

Static websites are those that consist of fixed web pages where the content remains the same unless manually updated. These websites are typically built using HTML and CSS and do not require complex server-side processing. The content is written in advance and displayed to users as it is.

ADVANTAGES OF STATIC WEBSITES

Static websites offer several advantages, including simplicity, fast loading times, and ease of maintenance. Since the content is pre-generated, static websites require fewer server resources and can be hosted on cheaper hosting plans. Additionally, they are well-suited for small businesses or individuals who want a basic online presence without complex functionality.

USE CASES FOR STATIC WEBSITES

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DEFINITION OF DYNAMIC WEBSITES

Dynamic websites, in contrast to static websites, employ server-side processing to generate web pages on-the-fly. These websites use programming languages like PHP, Python, or JAVA Script along with databases to store and retrieve information. The content of dynamic websites can be customized based on user interactions or database queries.

ADVANTAGES OF DYNAMIC WEBSITES

Dynamic websites offer numerous benefits, including dynamic content generation, interactive features, and personalized user experiences. They allow businesses to create complex web applications, manage large amounts of data, and provide real-time information to users. Additionally, dynamic websites facilitate content management systems (CMS) that enable easy content updates and collaboration.

USE CASES FOR DYNAMIC WEBSITES

Dynamic websites are suitable for a wide range of applications, such as online forums, social networking sites, news portals, and e-learning platforms. They are particularly beneficial for businesses that require frequent content updates, user interactions, and personalized experiences.

E-COMMERCE WEBSITES

E-commerce websites are specifically designed for online buying and selling of products and services. These websites integrate shopping carts, payment gateways, and inventory management systems to facilitate secure online transactions. E-commerce websites can be either static or dynamic, depending on the chosen platform and requirements.

ADVANTAGES OF E-COMMERCE WEBSITES

E-commerce websites offer businesses the opportunity to reach a global customer base, operate 24/7, and streamline the buying process. They provide features like product catalogs, customer reviews, secure payments, and order tracking, enhancing the overall shopping experience. Furthermore, e-commerce websites allow businesses to analyze customer behavior, track sales, and optimize marketing strategies.

USE CASES FOR E-COMMERCE WEBSITES

E-commerce websites are a necessity for businesses that want to sell products or services online. They are suitable for various industries, including retail, fashion, electronics, and digital services. Whether you are a small business or a large enterprise, having an e-commerce website enables you to tap into the vast potential of online sales.