



Universidad de las Fuerzas Armadas - ESPE

Department of Computer Science

Software Engineering Program

Advanced Web Development - NRC2296

Topic: Types of web pages

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Types of web pages

Single Web Apps (SWAs):

These are web applications that work under the concept of "single loading." This means that when the application starts, only one HTML page is loaded from the server, and all subsequent content updates dynamically in the browser using technologies like JavaScript and AJAX. These apps offer a smooth experience similar to desktop applications, avoiding full-page reloads. They are ideal for services where user interaction is constant, such as dashboards or email systems. Example: Gmail.

Multiple Web Applications:

These applications follow a traditional approach where each user interaction requiring a significant change in the interface generates a new request to the server, which then returns a completely new HTML page. Although it might seem less efficient than a SPA, this model is useful for applications that need a clear separation of content or prioritize compatibility with older browsers. Example: WordPress or traditional blogs.

Animated Web Applications:

This type of application incorporates visual elements and animations that enhance the user experience. Animations can include smooth transitions between sections, interactive buttons, dynamic graphics, or advanced visual effects. These applications often use frameworks and libraries like CSS3, GSAP, or WebGL to create appealing and functional interfaces. They are common in entertainment sites, creative portfolios, or modern online stores.

E-commerce Applications:

These web applications are specifically designed for buying and selling goods or services online. Key features include inventory management, secure payment systems, shopping carts, order history, and user behavior analytics. E-commerce platforms are vital for online businesses and often use technologies like Shopify, WooCommerce, or Magento. Example: Amazon, eBay.

Portals:

Portals are web applications that centralize various services, content, or applications in a single access point. They are commonly used by businesses, educational institutions, or communities, as they allow users to access shared resources such as news, databases, collaboration tools, or management systems. A typical portal includes user authentication, content personalization, and search tools. Example: a university student portal.



PWAs (Progressive Web Applications):

PWAs are advanced web applications that combine the best of traditional web apps and native mobile apps. They can work offline, send push notifications, and offer fast performance thanks to technologies like Service Workers, caching, and responsive design. They are highly accessible since they don't require installation from an app store but can be added to the desktop or home screen as if they were native apps. Example: Twitter Lite or Starbucks PWA.