

A SPA is a web-application on website that interacts with the user by dynamically rewriting the current webpage with new data from the web browser.

How it works.

- ① Browser req. to server. Then server respond to the req with static asset such as html, css and JS. This req scrolled on as webpage. When JS code loaded, this additional code asked for data through AJAX req for data. After that it comes back with JSON.

When the browser's work will be finished the SPA will be replaced in loading message on ~~will~~ animation and then we can see the actual webpage. Now we can work on webpage.

CSR → getServerSideProps method.

Props → fast on server, supports static, supports SPA

Cons → no initial → No initial render.

SSR → ~~the~~ Props → content immediately available no additional client fetches.

Cons → slower on server.

SSG - Pros same as SSR

Cons can be slow to rebuild large sites.

CSS to decorate
very good for its elementary support.
selects properties, values

To access multiple devices.

Bootstrap -

in build functions
~~animation~~ webpage

In this project we worked for frontend with using SPA, HTML, CSS, Bootstrap, JS, AJAX etc.

Here I used HTML, CSS, bootstrap, JS.

HTML is one of my favorite designing language. It defines meaning and structure of web content. Full form: HTML elements tell the browsers how to display the content. The new standard incorporates features like video playback — Google gears. Here the small part of html code we used.

Now, I'm going to say about browser support of HTML. — browser support for HTML5 form features: Google Chrome, Mozilla Firefox, Internet Explorer ver 4 to 6.0 Ver 4 to 6.3, 10, 11, Safari 4 and 12, 10.1 to 12, Microsoft Edge 12 to 15, Opera 10.1 to 12.1.

Features — New S — article, aside, bdi, command. Web Forms 2.0 is an extension to the forms features found in HTML5 provide a greater degree of semantic mark-up & frees from great deal.

window.localstorage stores data with no expiration date and window.sessionstorage stores data for one session.

The HTML5 web sockets specification defines that enables web pages to use the WebSockets protocol for 2-way communication with a remote host.

LESS

~~HTML~~ Application if solves a big problem. Here, CSS, tags like font, color, background style, border, size had to be repeated on every webpage. Pages load faster using less, easy to maintenance where web pages will be updated automatically.

Bootstrap

It is the world's most popular front-end open source toolkit that's ~~not~~ we used it.

~~Using bootstrap~~

JQuery - Here it is the most popular general purpose JavaScript library available. It provides commonly needed functionality in a standard and cross-browser compatible fashion.

- Here DOM elements represents a visual or functional element on the page which was created from the original HTML document.