YOTTAA

Single Page App Investment Guide for eCommerce

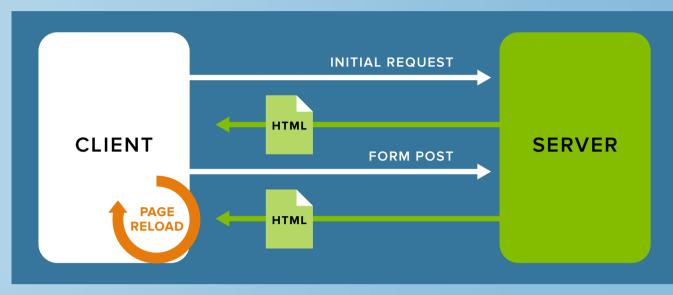
Everything you need to know when making the move to SPAs

Over the past several years, Single Page Applications (SPAs) have been growing in popularity as an eCommerce architecture. Especially now, with the aggressive shift to digital, brands must innovate to keep up. Below is a guide to everything SPAs, designed to help you decide if you should update or optimize your existing eCommerce architecture.

What are SPAs?

A Single Page Application is a web application or website that interacts with the user by dynamically rewriting the current page rather than loading entire new pages from a server.

Traditional Page





Why are SPAs popular?



SPAs don't reset the browser as the user navigates



This approach avoids interruption of the UX between successive pages, making the application behave more like a desktop application



In a SPA, all code (HTML, JavaScript, and CSS) - is retrieved with a single page load



SPAs allow quick wins with low/no code solutions to make an immediate impact

Why now?

In 2020, eCommerce revenue grew a whopping 53%. Out of all the brands that responded to a recent eCommerce Leaders Survey, 45% of retailers that stated they are investing in SPAs in 2021 were large brands, making \$200M+ annual online revenue. For these brands, there's extra budget to burn, and a lot of pressure to reach successful digital transformation.



Benefits of SPAs:



Multi-threaded Dev teams can work on different parts of the site at the same time



The site can appear faster and more appealing to shoppers





IT teams have more control



As an ongoing initiative, IT teams are able to hire and retain quality Dev talent

Challenges of SPAs:

be considered



All functionality changes and technology add ons require coding



Slow page loads will still be an issue due to 3rd parties



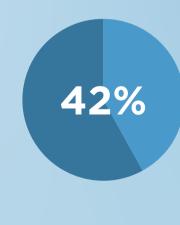
Short and long term costs should



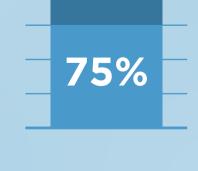
Page load time measurements may differ

While SPAs can certainly make a site appear faster, they have little impact on speeding up 3rd party technologies, which account for 75% of page load latency. Surprising? You're not alone. 42% of eCommerce leaders don't realize that 3rd parties will impact site speed regardless of architecture, as they reside outside of brands' controlled environments. It's important for brands to know all the facts before

making the switch to SPAs, and even with everything considered, it can still be a hard decision to make.



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to 3rd parties!

of page load latency is due

Filling in the gaps

With a huge percentage of brands investing in SPAs, not only does this mean big costs but also a lot of work. The shift to SPAs changes your development process along with the architecture. The performance and measurement challenge needs to be addressed directly especially with a mixed architecture.

and moving architectures require asking a lot of questions. Even with SPAs, there are still areas where you'll need help:

At the end of the day, eCommerce sites are complex,



3RD PARTY OPTIMIZATION AND CONTROL





MEASUREMENT

PERFORMANCE