

WordPress to Static HTML

Case Study

Industry - Security

</>) Year - 2021 Output - WordPress to Static (Migration and Domain Change)

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Project Scenario

mainly causing hassles in areas like page loading time. Unlike in cases where we look at HTML and Static sites, these issues never really.

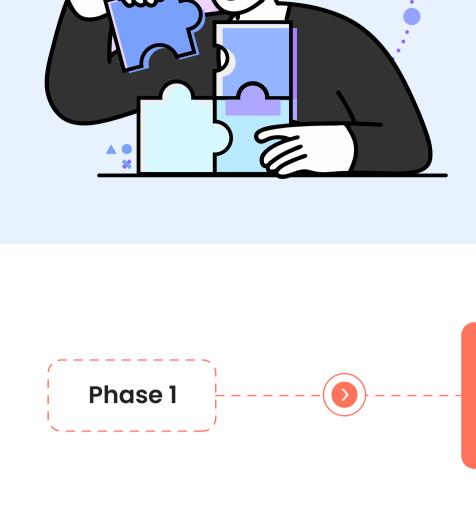
There were complications of image optimizations which limited the load time and performance of WordPress sites. Not just that, but there were also instances of security breaches and hacking in the case of WordPress. These issues were of great importance and intensity that they had to be handled with great sensitivity and priority. These required a functional

solution that would maintain the ease of developing and maintaining a WordPress site while

Sites developed under WordPress usually encounter multiple performance issues, and our

team detected the need to find a permanent solution to this. These performance issues were

ensuring an HTML site's performance. **Our Solution**



On the other side, it will be the static HTML setup that will enable to display of the data that is on the front end of the website. We came to the

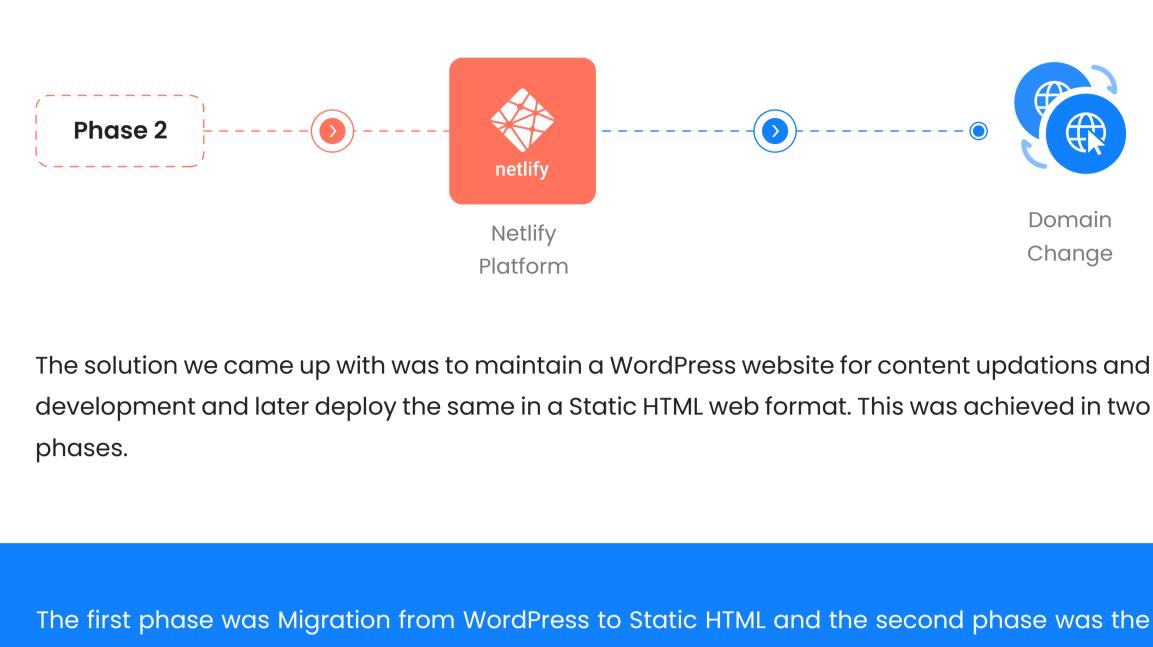
conclusion that this arrangement will effectively improve the security, as well as the scalability aspects in both areas. Wordpress to Modifying Static HTML Plugins

We decided to go with the method of 'Headless

WordPress', the benefit of following this system is

that WordPress will then serve as the back end to

manage the data and content within the website.



Domain Change process. Both of these phases were executed to address performance and

security issues. The first phase of WordPress to static conversion was achieved by modifying

an existing plugin - static-HTML-output and the second phase was achieved by installing the

modified plugin and by configuring our site to a platform called Netlify.

Problem statement & Our inferences

The primary objective of having this solution was based

on the need to have a working solution that would

effectively meet the convenience of working with a CMS

platform like WordPress and at the same time meet the

perks of having a static HTML site. This is because HTML

CDN options that can be ensured.

• Perfomance Limitations

enables you to have more control when handling likely scenarios. In the case of content availability also, there are multiple ways like the pre-rendered options and fast

 Page loading hassles Modifiying existing plug-in • Problems of image optimization • Security issues This way, the content will be available on the client side within a matter of milliseconds. Not just that, but improved security, reduced maintenance effort and options to scale the application is also much more accessible and comes with different options as well.

would prevent and protect the site from cyber predators.

The Agile Approach

HTML happened hassle-free.

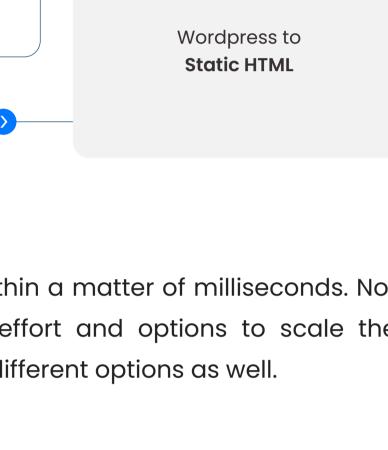
Challenge 1

Challenge 2

Solution

fetched rightly after plugin configuration.

Images and Cache settings getting lost



When it comes to the performance aspect of a WordPress site, the major drawback comes

with loading content and images of varying sizes. In order to maintain the load time and faster

performance, one will have to go on optimizing each image that gets uploaded. At the same

time, a static website would not have the hassles of getting content and images loaded from

the database. This is exactly what we had as a major inference. The same applied to the

security part of the website. Therefore it was necessary to have a solution that would not

compromise the security of the website at the same time accommodate practicalities that

The Emvigo **Approach**

All developments and projects under Emvigo Technologies follow an Agile Development

Approach. This ensures that the output we come up with is of top-notch quality and at the

same time is a failproof solution. At every stage of development, the output was put through

continuous testing to ensure that there are no errors and bugs within the output. After finding

the right plugin, it was observed that there are instances where the plugin posted certain

limitations and challenges. All of this was resolved through processes of continuous brainstorming and improvements. The Solutions Approach Our target population for this solution is majorly corporate sites that are using a limited amount of functionalities. The features that were planned to be incorporated, are to include static pages, an isolated WordPress runtime environment, support for WordPress built-in blogs, a global CDN with Netlify, Yoast SEO support, CF7 support, support for WP Job Openings

The plugin we decided to use had certain limitations when it came to the execution part. And

in order to bridge this, we decided to modify the existing plugin and made certain alterations

to it in ways we wanted the plugin to perform. After this, the plugin was configured. This was

mainly to accommodate certain fields like contact forms. To ensure that this worked in a

fail-proof manner, we made sure that each URL was crawled before we finally went ahead

with the deployment process. This ensured that the migration stage from WordPress to Static

Once the migration was completed we were good to go with the second phase of this solution,

which was the domain change process. After thorough research and study, we decided to opt

for the Netlify platform for our domain change process. At this stage, we created a production

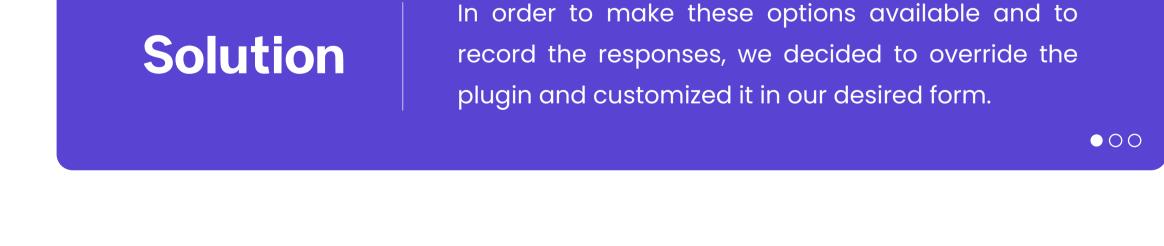
site and integrated the same with our solution, which is Blueprint 1. This way we would maintain

our static website on the Netlify platform itself. During this process, we would be provided with

a dummy URL that will be configured in WordPress. It is after this stage that the WordPress site

Plugin, and pre-rendered HTML content served for faster access.

gets exported to the portal site that we created and the URL will then be used for exporting to the Netlify platform. Finally, we did testing after the Domain change process to see if the site is working perfectly with improved performance and guaranteed security. The Milestones & Challenges we resolved



them reflect accurately.

Failed to detect certain URLs and folders and they were not being visible while

was added manually.

Techstacks used

is executed with

WordPress

Automation of Exporting process.

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To fix this issue, we disabled the plugin and made

We went on to override the plugin and the relative

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used for domain

change is **Netlify**

Limitations in Contact form submission, content blocks and responses not being

Solution

Challenge 3

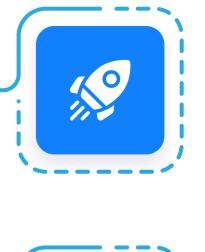
crawling the site.

Mysc

netlify The platform we have We have used The Front-end part

Automated Deployment options are to be introduced because

What's next in line?



MySQL for Database

requirements

manually deploy the changes to be reflected on the live website.

now every time content updations are made, one will have to



Search option to be integrated with WordPress site.