

Category Navigation

Fashion&Friends Case Study



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About Us

Our Company

Syncit Group is a European software development company specialized in end-to-end **eCommerce solutions**.

We are a Magento Business Solution Partner and an Adobe Solution Partner.





Our Product

Athena Search is an advanced, SaaS-based site search built for **eCommerce** stores.

It is constantly self-improving thanks to Machine Learning and Artificial Intelligence.





Problem

A **slow loading speed** on a web page can lead to a lack of sales, conversions, and a general loss of traffic.

Modern consumers would prefer to search for a new page than spend time waiting for a page to load.





Why is the Page Load Time Important?



It is a primary ranking factor and is important for SEO.



It is important for potential leads and customer losses.



It keeps customers happy and brings profit to the company.



Why is the Page Load Time Important?



The speed of your site dramatically impacts your site's SEO and bounce rate. A high number of zero-second page hits means that **people don't wait** for your site to load before **they leave**.



The **one-second delay** resulted in a **4.9%** drop in the number of articles a visitor reads. The **three-second delay** resulted in a **7.9%** drop. Visitors read less when delays occur.



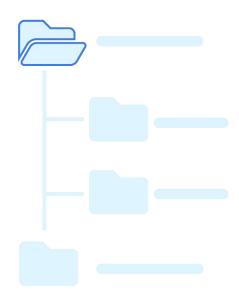
On average, if your website takes longer than **3 seconds** to load, approximately **40%** of your visitors will **abandon your site**. This means a slow website will drive customers away.



Solution

There are a few actionable steps business owners can take to improve the speed of their website.

Using **Athena Category Navigation**, we are now able to boost the loading speed of the Category Navigation page.





Solution

All the changes that occur on the data are usually handled by the eCommerce platform itself.

We have transferred this job to Athena Category Search, thus making eCommerce platform **servers less impacted** by the volume of the customers.

So, we get a much **higher speed** of the website and a lot **cheaper servers**.





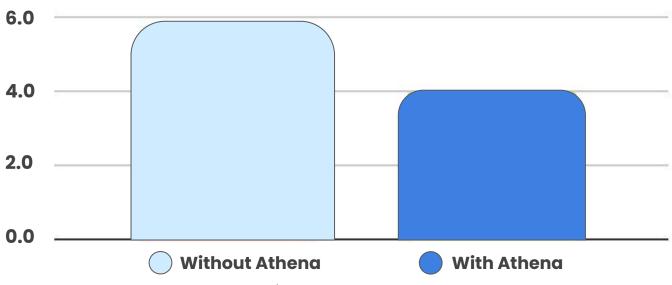
FASHION &FRIENDS

Case Study

This Case Study will present handling categories through Athena Category Search on the Magento platform where we achieved outstanding performance compared to default Magento category handling.

It will point out the speed of and the server power for the Fashion & Friends eCommerce store before and after the implementation of the Athena Category Navigation.

Number of Servers * 43.8% Improvement

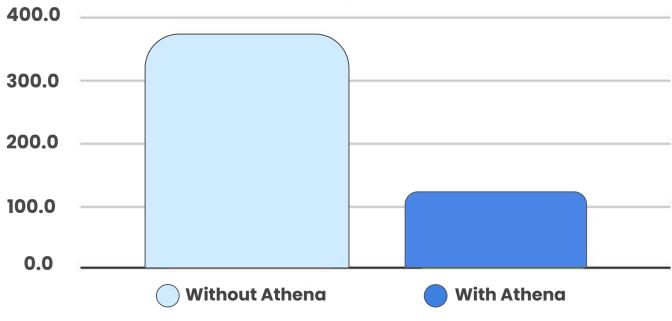


* servers are Amazon AWS EC2



Number of vCPU Cores**

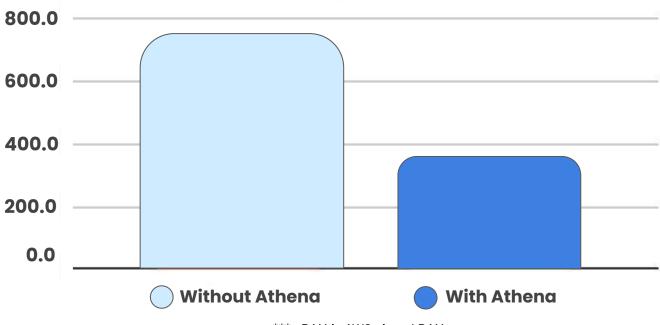
230.4% Improvement



** vCPU are AWS virtual cores



Quantity of vRAM (GB)*** 111.1% Improvement



*** vRAM is AWS virtual RAM



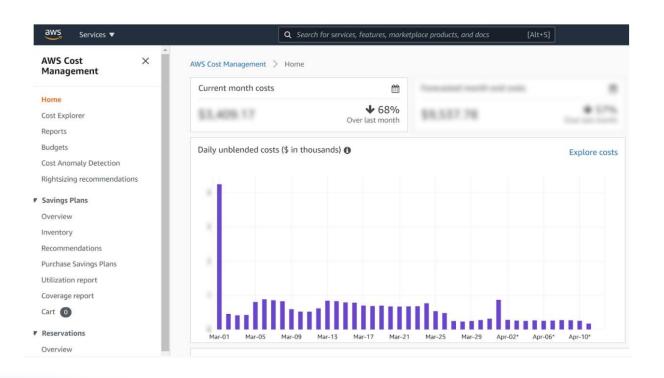
What We Have Achieved

- **30.4%** reduction in the number of **servers** used,
- 69.7% reduction in the number of CPU cores used,
- **52.6%** reduction in the amount of **RAM** used.

Magento controlling PLP							
Date	Number of Number Servers of vCPU		Quantity of vRAM				
15.01.2021	5.0	324.0	623.0				
18.01.2021	5.0	324.0	623.0				
05.02.2021	5.0 420.0		809.0				
22.03.2021	8.0	412.0	816.0				
Average	5.8	370.0	717.8				
Athena Category Search controlling PLP							
07.04.2021	4.0	4.0 112.0					
09.04.2021	4.0	112.0	340.0				
Average	4	112	340				
Hardware resource reduction	30.4%	69.7%	52.6%				
Improvement in hardware utilization	43.8%	230.4%	111.1%				



68% Reduction in the Server Cost





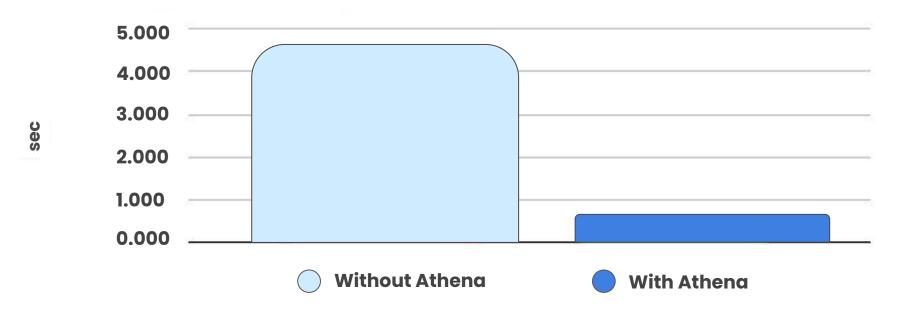
Magento vs. Athena Category Navigation

GTmetrix								
Magento controlling PLP		Users *	Sessions *	TTFB (sec) 1st filter	TTFB (sec) 2nd filter	TTFB (sec) 3rd filter		
15.01.2021 10AM CET	<u>Women Bags</u>	267	395	5.190	4.600	4.470		
18.01.2021 10AM CET	<u>Women Bags</u>	200	282	5.360	4.280	4.330		
05.02.2021 10AM CET	<u>Women Bags</u>	285	416	5.470	4.390	4.370		
22.03.2021 10AM CET	<u>Women Bags</u>	214	289	1.730	4.860	4.650		
Average				4.438	4.533	4.455		
					•			
Athena Category Navigation controlling PLP		Users *	Sessions *	TTFB (sec) 1st filter	TTFB (sec) 2nd filter	TTFB (sec) 3rd filter		
07.04.2021 10AM CET	Women Bags	157	209	0.526	0.544	0.534		
09.04.2021 10AM CET	<u>Women Bags</u>	181	243	0.448	0.410	0.449		
Average				0.487	0.477	0.492		
Objective speed improvement in %			811.2%	850.2%	806.4%			
Cumulative effect of performance improvement with hardware reduction in %			1878.9%					

TTFB - Time To First Byte

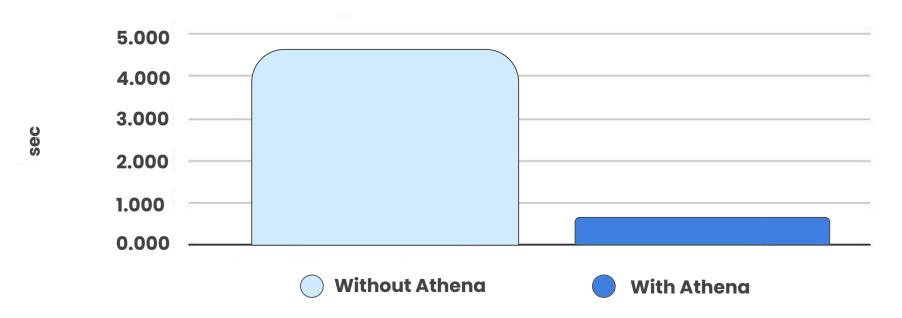
^{*} Values gathered using Google Analytics

TTFB (1 Filter) Speed Improvement 811.2%



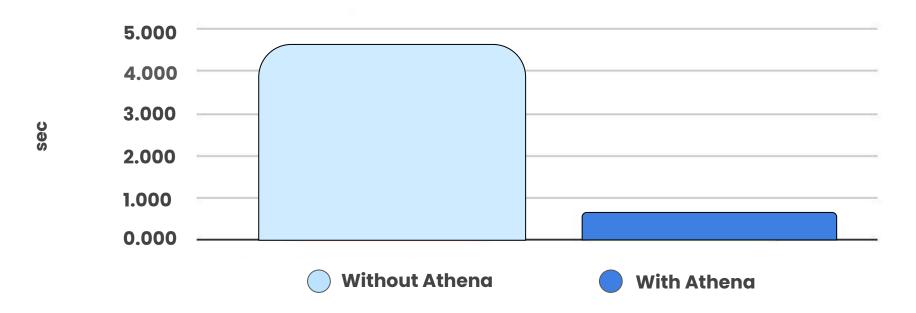


TTFB (2 Filters) Speed Improvement 850.2%





TTFB (3 Filters) Speed Improvement 806.4%





Conclusion

We have noticed a remarkable improvement in the response speed with **Athena Category Navigation**.

Not only have we reduced the load on the Magento servers by transferring part of the job to the Athena Category Search, but we also have greatly reduced the response time of the website on the category pages when Athena Category Search controls them.



Save time, save money.



Client's Words

"We have chosen **Athena** because of enthusiasm and devotion of Syncit, fast resolving process in any time, **excellent performance of search** and many, many special thanks for reduced costs of our hosting!

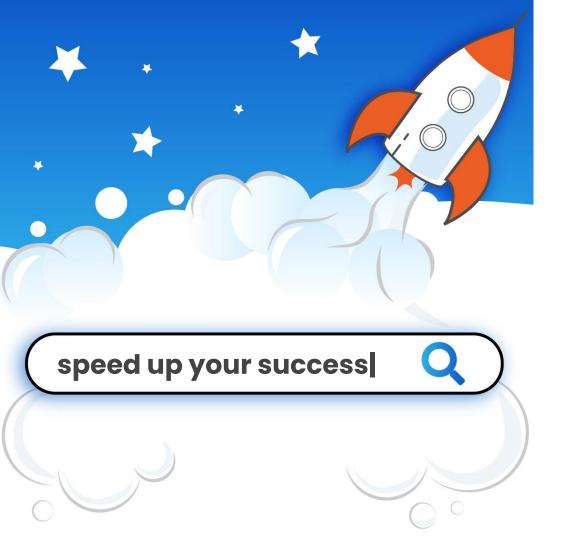
Site is flying on steroids now, and we are getting wonderful feedback about it."

Fashion&Friends Website



Dušan Brdar IT Director Fashion Company, Serbia





Useful Links

- Athena Search Website
- Athena Search DEMO site
- <u>Case Studies</u>
- Magento 2 extension
- WordPress Plugin
- Schedule a DEMO
- Contact Us

Thank you for your attention!

Should you have any questions, feel free to contact us.

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