



Assignment-III

On

Ecommerce website testing(GT matrix)

Course: Software Quality Assurance

Code:SE-403

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In this report we tested the website Ali express (<https://www.aliexpress.com>) one of the top level ecommerce website. Here is the several test observation,

Performance: The performance of the selected website was very good. We can use it without having/facing any trouble. Here we only noticed a speed issue on this website. The overall rating is B which is average but the performance was satisfied it's user.

Structure : Structure score tell us how well a o page to build for it optimal use .Gt matrix provide structure rating 86%. Which is very good as a structural measurement.

T. Blocking Time: We see in the report that our time blocking is 140ms .Which is good I think as a ecommerce website .We know if the blocking time is more than 150ms then it should need to improve.

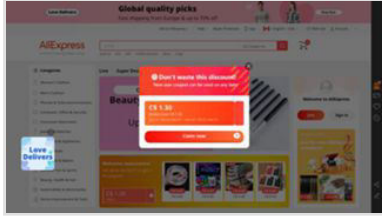
LCP: LCP measure how long it's take for the largest content element. Ali express rating is 1.2s which is maximum rating for get a good user experience .they should improve in this criteria.

CLS : It say how much layout shift experienced by visitor. The value should be 0.1 or less for getting a good result. Here Ali express score 0.07 which is quite good.

Afterall we can say Ali express is a website. But nothing is not 100 in 100.Actually is impossible to get 100 in 100 as a software product. There GT matrix rating is B. There are many field to improve.

We mentioned the the value of test result is not fixed. It can be changed. It actually depends on time when we test it. Whenever the server is busy actually the busy time on their local zone it maybe performed average .When the server became free it can be performed well.

Below is the report:



Performance Report for: <https://www.aliexpress.com/>

Report generated: Mon, Jan 31, 2022 9:42 AM -0800
Test Server Location: Vancouver, Canada
Using: Chrome (Desktop) 90.0.4430.212, Lighthouse 8.3.0

B	Performance 88%	Structure 86%	L. Contentful Paint 1.2s	T. Blocking Time 140ms	C. Layout Shift 0.07
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Top Issues

IMPACT	AUDIT	
Med-Low	Serve static assets with an efficient cache policy	Potential savings of 206KB
Med-Low	Avoid document.write()	1 instance found
Med-Low	Use a Content Delivery Network (CDN)	15 resources found
Low	Properly size images	Potential savings of 290KB
Low	Avoid an excessive DOM size	961 elements

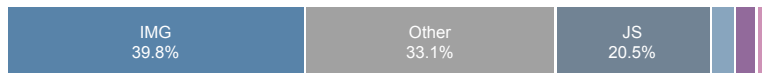
Page Details



Total Page Size - 1.66MB



Total Page Requests - 166



HTML
 JS
 CSS
 IMG
 Video
 Font
 Other

How does this affect me?

Today's web user expects a fast and seamless website experience. Delivering that fast experience can result in increased visits, conversions and overall happiness.

As if you didn't need more incentive, **Google has announced that they are using page speed in their ranking algorithm.**

About GTmetrix

CARBON60
THE MANAGED CLOUD COMPANY

GTmetrix is developed by the good folks at **Carbon60**, a Canadian hosting company with over 26 years experience in web technology.

<https://carbon60.com/>

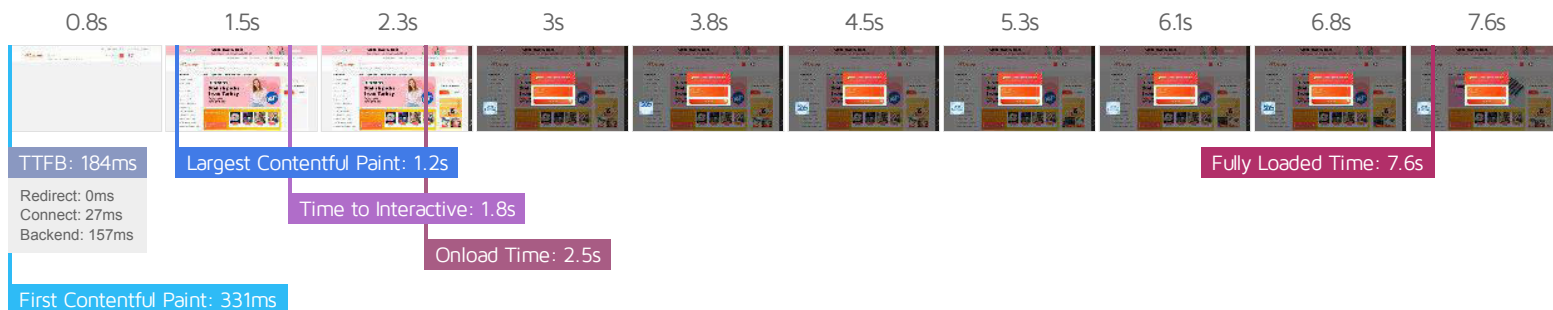
The waterfall chart displays the loading behaviour of your site in your selected browser. It can be used to discover simple issues such as 404's or more complex issues such as external resources blocking page rendering.

AliExpress - Online Shopping for Popular Electroni...Sports, Automobiles and More products - AliExpress

/	200	aliexpress.com	12.9KB		184ms				
index.css	200	assets.alicdn.com	23.3KB		53ms				
index.css	200	assets.alicdn.com	1.05KB		2ms				
index.js	200	assets.alicdn.com	42.8KB		53ms				
index.js	200	assets.alicdn.com	12.8KB		51ms				
ae-header.css	200	assets.alicdn.com	11.4KB		3ms				
H550f9a3d61804a6c9fc937200b7db1c...	200	ae01.alicdn.com	82B		298ms				
ae-header.js	200	assets.alicdn.com	58.6KB		91ms				
index.js	200	assets.alicdn.com	78.0KB		96ms				
g??/AWSC/AWSC/awsc.js,/sd/baxia/2...	200	assets.alicdn.com	12.5KB		72ms				
index.js	200	g.alicdn.com	2.73KB		643ms				
data_homepage.do?featuresWhitelist=1	200	aliexpress.com	11.7KB		224ms				
QNAFN-M5G8E-MTGE9-MRVZ4-ECB7Z	200	s.go-mpulse.net	49.2KB		35ms				
alilog??aplus_plugin_aefront/index.js...	200	assets.alicdn.com	9.8KB		10ms				
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eg.js?t=1643650974770	200	ae.mmstat.com	91B		631ms				
config.json?key=QNAFN-M5G8E-MT...	200	c.go-mpulse.net	390B		143ms				
index.js	200	assets.alicdn.com	6.58KB		3ms				
g??xilly/spl/rp.js,secdev/nsv/1.0.78/ns...	200	assets.alicdn.com	54.7KB		10ms				
et_f.js	200	assets.alicdn.com	30.5KB		10ms				
setCommonCookie.htm?fromApp=fal...	200	login.aliexpress.ru	1.76KB		635ms				
setCommonCookie.htm?fromApp=fal...	200	login.tmall.ru	1.73KB		653ms				
1.0?jsv=2.5.1&appKey=24815441&t=1...	200	acs.aliexpress.com	131B		88ms				
loader.js	200	assets.alicdn.com	1.08KB		9ms				
Hb8a83075e94e442490fa26a4565b5c2...	200	ae01.alicdn.com	25.8KB		5ms				
Sf54968cb8aff4765a588cc88f3f2194c...	200	ae01.alicdn.com	29.0KB		9ms				
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B		204ms				
HTB12uSfbzzuK1Rjy0Fp761EpFXap.p...	200	ae01.alicdn.com	149B		7ms				
H3a2170950d3848dd85531682a4dc5ef...	200	ae01.alicdn.com	237B		13ms				
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mem5YaGs126MiZpBA-UN7rgOUuhp...	200	assets.alicdn.com	8.59KB		120ms				
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POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B		252ms				
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B		250ms				
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B		326ms				
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POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B		380ms				
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POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B		500ms				
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POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B		551ms				
load_region_path.htm?path=biz%2Fs...	200	aliexpress.com	1.66KB		117ms				
load_region_path.htm?path=biz%2Fa...	200	aliexpress.com	2.62KB		86ms				
load_region_path.htm?path=common...	200	aliexpress.com	4.34KB		116ms				

nano-webpush-ui-9TEFD.css	200	assets.alicdn.com	388B		8ms		
nano-webpush-ui-9TEFD.js	200	assets.alicdn.com	4.55KB		9ms		
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H4d523ca938f84764ab9970676846ced...	200	ae01.alicdn.com	236B		120ms		
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POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B		194ms		

POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				194ms	
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				194ms	
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				194ms	
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				194ms	
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				194ms	
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				322ms	
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				321ms	
POST ae.pc_ctr.statweb_ae_ctr	(incomplete)	ae.mmstat.com	0					>5.8s
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				319ms	
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H3d43cb126d4248ff9deea096c194f11...	200	ae04.alicdn.com	3.19KB				18ms	
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fbevents.js	200	connect.facebook.net	25.6KB				71ms	
event?a=an%3D23735%26cn%3Dca%...	200	sslwidget.criteo.com	20B				209ms	
analytics.js	200	google-analytics.com	19.5KB				10ms	
gtm.js?id=GTM-5VJNN2G	200	googletagmanager.com	37.6KB				24ms	
ec.js	200	google-analytics.com	1.10KB				11ms	
js?id=G-VED1YSGNC7&l=dataLayer&...	200	googletagmanager.com	60.9KB				186ms	
1650958108523345?v=2.9.52&r=stable	200	connect.facebook.net	89.1KB				252ms	
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				193ms	
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				202ms	
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				194ms	
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				193ms	
ca-gregorian.json	200	assets.alicdn.com	579B				28ms	
H3ac4bc46d5014cedbe031909050e2a...	200	ae01.alicdn.com	19.1KB				9ms	
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200x200.gif	200	ae01.alicdn.com	310KB				32ms	
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				194ms	
Hc791f918a5ba4176809fcf63b76db72...	200	ae01.alicdn.com	2.06KB				6ms	
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				194ms	
country-zone-map.json	200	m.alibaba.com	685B				24ms	
ts?url=https%3A%2F%2Fm.alibaba.c...	200	fourier.taobao.com	76B				243ms	
tr?id=1650958108523345&ev=PageVie...	200	facebook.com	44B				63ms	
POST aes.1.1	200	ae.mmstat.com	43B				194ms	
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B				194ms	
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aliexpress.ico	200	ae01.alicdn.com	4.19KB				12ms	
POST aes.1.1	200	ae.mmstat.com	43B				193ms	
tr?id=1650958108523345&ev=Microda...	200	facebook.com	91B				127ms	
170121-801bc1eb0082e77d9a166e087...	200	ilce.aliexpress.com	21.4KB					162ms
POST ae.pc_ctr.statweb_ae_ctr	200	ae.mmstat.com	43B					194ms
166 Requests				1.61MB (4.25MB Uncompressed)		Fully Loaded 7.6s (Onload 2.5s)		



Performance Metrics

First Contentful Paint How quickly content like text or images are painted onto your page. A good user experience is 0.9s or less.	Good - Nothing to do here 331ms	Time to Interactive How long it takes for your page to become fully interactive. A good user experience is 2.5s or less.	Good - Nothing to do here 1.8s
Speed Index How quickly the contents of your page are visibly populated. A good user experience is 1.3s or less.	Much longer than recommended 2.5s	Total Blocking Time How much time is blocked by scripts during your page loading process. A good user experience is 150ms or less.	Good - Nothing to do here 140ms
Largest Contentful Paint How long it takes for the largest element of content (e.g. a hero image) to be painted on your page. A good user experience is 1.2s or less.	OK, but consider improvement 1.2s	Cumulative Layout Shift How much your page's layout shifts as it loads. A good user experience is a score of 0.1 or less.	Good - Nothing to do here 0.07

Browser Timings

Redirect	0ms	Connect	27ms	Backend	157ms
TTFB	184ms	First Paint	331ms	DOM Int.	845ms
DOM Loaded	933ms	Onload	2.5s	Fully Loaded	7.6s

IMPACT	AUDIT	
Med-Low	Serve static assets with an efficient cache policy	Potential savings of 206KB
Med-Low	Avoid document.write()	1 instance found
Med-Low	Use a Content Delivery Network (CDN)	15 resources found
Low	Properly size images	Potential savings of 290KB
Low	Avoid an excessive DOM size	961 elements
Low	Use video formats for animated content	Potential savings of 183KB
Low	Eliminate render-blocking resources	Potential savings of 31ms
Low	Avoid long main-thread tasks	4 long tasks found
Low	Reduce JavaScript execution time	479ms spent executing JavaScript
Low	Reduce unused CSS	Potential savings of 44.6KB
Low	Defer offscreen images	Potential savings of 17.7KB
Low	Avoid large layout shifts	5 elements found
Low	Avoid chaining critical requests	10 chains found
Low	Reduce unused JavaScript	Potential savings of 261KB
Low	Avoid enormous network payloads	Total size was 1.66MB
Low	Ensure text remains visible during webfont load	1 font found
Low	Reduce initial server response time	Root document took 156ms
Low	Avoid serving legacy JavaScript to modern browsers	Potential savings of 21.9KB
Low	Avoid non-composited animations	1 animated element found
N/A	Largest Contentful Paint element	1 element found
N/A	Minimize main-thread work	Main-thread busy for 1.9s
N/A	User Timing marks and measures	10 user timings
N/A	Reduce the impact of third-party code	Total size was 287KB