

Survey

Dear participants, first of all, we would like to thank you for agreeing and taking your time to fill out this questionnaire which will help us a lot in getting relevant results in order to achieve our goal. We are master students in software engineering at Mälardalen University, Sweden. The aim of this survey is to investigate what is the current state of JAMstack, as well as what are its main benefits and limitations with respect to other Web Technologies. The questionnaire consists couple of different types of questions: evaluation, open-ended questions, and close-ended questions. The survey is anonymous and will only be used for academic purposes.

In case you have any questions you can contact us on the following emails: dmc20004@student.mdh.se msc20005@student.mdh.se

General info

Name (It will be only used for the private records of the authors and will rem	nair
anonymous to the public audience)	

Your answer

1. How much experience do you have in web development? *
C Less than a year
1 - 3 years
3 - 5 years
5 - 10 years
More than 10 years
2. Select the role that fits you best? *
Full-stack developer
Front-end developer
O Back-end developer
Mobile developer
O Database expert

3. Which of the following stacks have you had experience with? * JAMstack								
LAMP MEAN MERN Other:								
4. How much experience do you have in JAMstack? * Less than a year 1 - 3 years More than 3 years								
5. How much experience do you have in traditional stacks (LAMP/MEAN/MERN)? * Less than a year 1 - 3 years More than 3 years								
6. To which of the following stacks are you leaning towards? (3 - neutral) *								
1 2 3 4 5								
JAMstack O O O Traditional stacks (LAMP/MEAN/MERN)								
7. Which of the following APIs and tools have you heard of and find useful for JAMstack? * Algolia Auth0 Netlify Forms Snipcart Stripe Strapi GraphQL FaunaDB								

8. Are there any APIs or tools for JAMstack that you would particularly point out?							
Your answer							
Select value depending on how much do you agree or disagree with following claims:							
9. JAMstack benefits							
Performance - With static pages delivered through CDN the loading speed of the JAMstack website usually achieves the highest possible score on speed tests. There are three aspects that are usually used as metrics of website speed and they are: LCP (largest contentful paint), FID (first input delay), CLS (cumulative layout shift).*							
	1	2	3	4	5		
Strongly Disagree	0	0	0	0	0	Strongly Agree	
Security – Thanks to the static storage or CDN that serves your application, APIs that are read-only and accessible exclusively for building environment, attacks can be reduced to minimum if not even removed completely. Since the layer has no database, sites are not vulnerable to server-side include injections. Besides, the use of external platforms such as Netlify can provide protection against DDOS and DNS attacks.*							
	1	2	3	4	5		
Strongly Disagree	0	0	0	0	0	Strongly Agree	
Flexibility - JAMstack uses third-party services more known as headless CMS for managing content on the website. Since headless CMS are separated from the front-end of the website it means that the API that is created with headless CMS can be used and easily displayed across multiple platforms. * 1 2 3 4 5 Strongly Disagree O O O O Strongly Agree							
Pricing - The whole JAMstack website requires a small amount of resources and can be hosted on CDN using some free static hosting like Netlify or GitHub Pages which will reduce the cost. *							

1 2 3 4 5

SEO - JAMstack page content is static which means that the speed of the website will be fast and indexing the pages of the website will be a lot easier in comparison with other web stacks which are the two most important factors for a good ranking on the internet.*									
	1	2	3	4	5				
Strongly Disagree	0	0	0	0	0	Strongly Agree			
Developer experience - JAMstack developers have more freedom in choosing the technologies they will use in accordance with their knowledge, wishes and needs unlike other web stacks. The fact that front-end is separated from the backend makes developer experience far more enjoyable and easier because they can focus on one thing. Since JAMstack is static, all files can be stored on GitHub, Netlify or Vercel which makes the deployment easy and what matters to many, all for free. *									
	1	2	3	4	5				
Strongly Disagree	0	0	0	0	0	Strongly Agree			
Select value depending on how much do you agree or disagree with following claims:									
10. JAMstack Limitations									
10. JAMstack Limitat	ions								
Dynamic functionaliti implement some dynamic search on your valgolia or other third-	es - Whil amic fun ding mor website y	ctionalit e compl ou can't	y and it ex featu	mostly r	equires example	relying on third- e if you want to			
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Reliance on third-par	tv systems
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Since JAMstack does not have a database or its server and all APIs are hosted by a third-party, application is coming out with the following risks:

Availability - In case the system goes down, your website will feel the consequences because there is no communication with the API. Whether a solution will be reached and if the system will function again, is out of your hands and depends entirely on the provider. *								
		1	2	3	4	5		
Strongly Disaç	ree	0	0	0	0	0	Strongly Agree	
Confidentiality - Entrusting all content to a third-party is the risk that confidential content could be disclosed. *								
		1	2	3	4	5		
Strongly Disag	ree	0	0	0	0	0	Strongly Agree	
Did you encounter any other limitations or benefits that are not already listed while using JAMstack? Please describe them. Your answer								
12. In your experience with JAMstack and traditional stacks, for which kind of site one would be a more suitable option than the other? (3 - neutral)								
Blog and Portfo	lio *							
	1	2	3	2	Į.	5		
JAMstack	0	0	0)	0	Traditional stacks	
E-commerce *								
	1	2	3	4	ı	5		
JAMstack	0	0	0			0	Traditional stacks	

Social media *

Social media *									
	1	2	3	4	5				
JAMstack	0	0	0	0	0	Traditional stacks			
News and Maga	azine *								
	1	2	3	4	5				
JAMstack	0	0	0	0	0	Traditional stacks			
Media streamin	Media streaming *								
	1	2	3	4	5				
JAMstack	0	0	0	0	0	Traditional stacks			
Anything to add	Anything to add?								
13. What would you list as the advantage of traditional stacks (LAMP, MEAN, MERN) over JAMstack? Please explain.									
Your answer									
14. In your experience so far, do you think JAMstack will be able to overcome other web stacks in the future and become de facto standard? Please elaborate your answer. Your answer									
Rate the survey									
	1	2	3	4		5			
Very bad	0	0	0	C) (Very good			
Comments or s	uggestio	ns about	the surve	еу					
Your answer									