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# Project: Reorganize the contributor guide

Google Season of Docs 2023 | Organization: WasmEdge

## Personal information

**Full name:** Adithya Krishna V Sharma

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## Professional Information

I regularly contribute to **Meshery Documentation** written using Jekyll, my PRs I <https://github.com/meshery/meshery/pulls?q=is%3Apr+author%3Aadithyaakrishna+is%3Aclosed> and Markdown along with **Mattermost Documentation** written using Sphinx, my PRs I <https://github.com/mattermost/docs/pulls?q=is%3Apr+author%3Aadithyaakrishna+is%3Aclosed>

I have also worked on KubeVirt docs at, <https://github.com/kubevirt/user-guide/pulls?q=is%3Apr+author%3Aadithyaakrishna+is%3Aclosed>, I am very comfortable working with Markdown and most of my docs related PRs use Markdown as the main language.

I have also worked on creating an analysis of static site generators for my side project to compare various generators like Docusaurus, Hugo, VuePress, and more at, <https://github.com/adithyaakrishna/Analyze-SSG>

With the above documentation and other contributions, I have honed the skills of using and working with Docusaurus and Markdown. I also have a pretty good idea of web assembly i.e. WASM and recently learned more about WasmEdge.

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I have worked with docusaurus previously and had contributed to Talawa Docs, by the Palisadoes Foundation. My PRs,

<https://github.com/PalisadoesFoundation/talawa-docs/pulls?q=is%3Apr+author%3Aadithyaakrishna+is%3Aclosed>


I have also written several technical blogs related to cloud-native technologies at, <https://dev.to/adithyaakrishna>. Along with this, I have also given multiple talks related to cloud-native technologies and frontend tech, most of them are listed here,

<https://www.polywork.com/adiikris/collections/1133486>

I am also very comfortable writing custom GitHub actions and have written custom scripts to auto-deploy a couple of websites on push or when a pull request is created. One such example is my website built using Gatsby, React and it uses this specific action to auto-deploy,

<https://github.com/adithyaakrishna/adithyaakrishna.github.io/blob/source/.github/workflows/deploy.yml>

Along with these, I contribute to open-source quite often and most of my contributions are here, <https://github.com/adithyaakrishna>

**Link to My CV:**  AdithyaKrishna-Resume-Updated.pdf

## Project Statement

### Project Title

**Reorganize the contributor guide of WasmEdge:** This project aims to create a contributor guide for WasmEdge to help new contributors develop plug-ins. The project involves reviewing the existing documentation and creating new guides and references for the C, C++, and Rust plug-in SDKs. The project will also update the documentation on the new Docusaurus-based site, [wasmedge.org/docs/](https://wasmedge.org/docs/). The required content for the contributor guide includes an architectural overview, getting started with contributing, building WasmEdge, testing WasmEdge, fuzzing, building a plug-in, reporting an issue, and proposing a feature request.

### Detailed Description

- **Review existing documentation:** The first step is to review the existing contributor documentation to identify gaps and improvement areas. This will involve understanding

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the current documentation structure and content, identifying any outdated or irrelevant information, and making notes on what needs to be updated or added.

- **Create an outline:** Based on the review, create an outline for the new contributor guide. This outline should cover all the required content mentioned above, with clear headings and subheadings that make it easy for new contributors to navigate and find the information they need.
- **Develop new guides and references:** For each section of the outline, create new guides and references that provide clear, concise, and actionable information for new contributors. This will involve researching best practices for each topic, providing step-by-step instructions where necessary, and using clear language and visuals to make the information easy to understand.
- **Update the documentation:** Once the new guides and references are complete, update the documentation on the new Docusaurus-based site, [wasmedge.org/docs/](https://wasmedge.org/docs/). This will involve creating new pages for the contributor guide, linking to relevant sections of existing documentation, and making sure that the new content is integrated seamlessly with the existing site design and structure.
- **New Features:** Add a search field to the documentation through, <https://docusaurus.io/docs/search> such that users and visitors of the site can easily access the information that they need without going through the whole website.
  - I have integrated **Algolia** search into a couple of Docusaurus sites and one of them is, <https://github.com/adithyaakrishna/learn-hsf-algolia/tree/feat/adi-submission>. This is deployed using Netlify at, <https://learn-hsf-algolia.netlify.app/>
- **Test and refine:** Finally, test the new contributor guide with a group of new contributors to identify any remaining issues or areas for improvement. This feedback can be used to refine the guide and make it as effective as possible for new contributors.

Overall, the key to tackling this problem is to focus on creating clear and actionable information that is easy for new contributors to understand and use. By taking a structured approach to review, outlining, developing, and testing the new contributor guide, it should be possible to create a valuable resource that helps WasmEdge attract and retain new contributors.

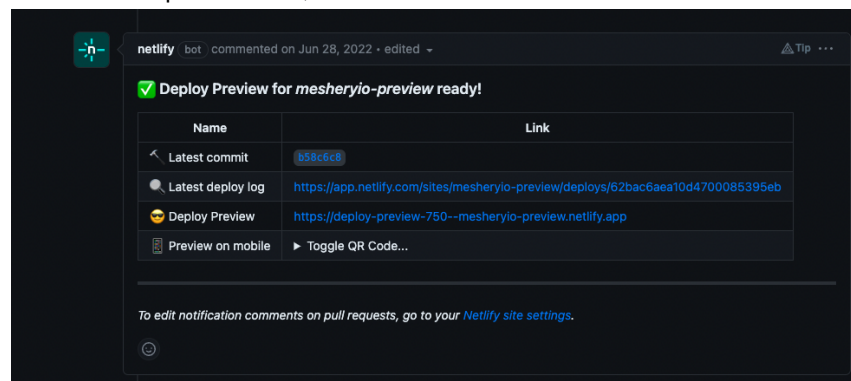
## How does it help?

- **Easier Project Management:** Proper documentation plays a crucial role in facilitating effective project management. By establishing a clear project scope, objectives, timelines, and deliverables, documentation provides project managers with the necessary guidelines and instructions to manage their teams effectively.

- **Clearer Communication:** Documentation supports effective communication among team members and stakeholders. By providing a common language and clear expectations, documentation helps in avoiding misunderstandings and conflicts, establishing a shared understanding among team members, and improving communication overall.
- **Maintaining Consistency:** Documentation ensures consistency in project execution by establishing a standard way of doing things. This approach helps in maintaining quality, minimizing errors, and reducing rework.
- **Easier Transfer of Knowledge:** Proper documentation captures the knowledge and expertise of team members, which can be transferred to new team members or shared with other departments in the organization. This facilitates the building of institutional knowledge and improves overall organizational performance.
- **Easier Project Evaluation:** Documentation provides a historical record of the project that can be used for project evaluation and continuous improvement. By identifying areas of improvement, best practices, and lessons learned, documentation facilitates the development of strategies that can be applied to future projects.

## Current Work

- Worked on finding broken links
  - <https://github.com/WasmEdge/WasmEdge/pull/2413>
  - <https://github.com/WasmEdge/docs/pull/16>
- Updated Contribution Overview Docs at,
  - <https://github.com/WasmEdge/docs/pull/19>
- Added Contribution flow, license, and updated README at,
  - <https://github.com/WasmEdge/docs/pull/18>
- Updated Docusaurus to **v2.4.0**
  - <https://github.com/WasmEdge/docs/pull/30>
- A feature to be implemented,



For every PR we create on the docs repository, netlify is gonna add a comment with a deploy preview having the changes with respect to the PR such that it would be much easier for the maintainers and contributors to review as well as suggest the changes.

- For more info,
  - <https://github.com/apps/netlify>

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- <https://www.netlify.com/integrations/github/collaborative-deploy-preview/>

## Proposed Timeline

### Information Gathering Phase - May

- Discuss & Interact with the project mentors, and volunteers and gather their expectations.
- Understand the codebase and get up to speed in terms of documentation and work that needs to be done.
- Communicate with mentors about my ideas.
- Discuss the basic structure for improvements and communicate regarding the same with Mentors.
- Collect and Organize data from <https://wasmedge.org/book/en/> to be ported to the new documentation site.

### Porting Old Docs Phase - June-July

- Port the old docs from <https://wasmedge.org/book/en/> to the new docs site which uses docusaurus.
- Get in touch with mentors/volunteers to make improvements to the new docs site and coordinate with them to push it to the main docs site.
- Update the links at <https://wasmedge.org/> to redirect to the new site i.e. <https://wasmedge.org/docs/>

### Work on New Docs Phase - June-July

- Gather information regarding the Project's main Idea.
- Collect and Organize the info for the plug-ins
- Work on updating the site, <https://wasmedge.org/docs/> with new contributor documentation.
- Get weekly reviews once the code is pushed to the repo from org admins about further improvements that can be made.
- Work on improvements simultaneously as suggested by the admins
- Add search feature to the new docs website

### Review Period - August

- Once all updates to the documentation are done, work with admins to gather further suggestions and improvements as necessary.
- Work on the new suggestions and make the new improvements according to the ones given by the org admins.
- Work with admins to create a status report.

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## **Proposed Budget**

- **Information Gathering Phase: \$500**
- **Porting Old Docs Phase: \$1000**
- **Work on New Docs Phase: \$1000**
- **Review Period: \$500**