

Improvement Of The Functionality And Information Process Of The CMS Safety Website

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Duration:

19th of June - 11th of August

CMS Safety Office

CERN

Summer 2023

Abstract

During my time in the CERN Summer Student Program, I embarked on a significant project with the aim of enhancing the functionality, information sharing, and visual appeal of the CMS Safety Website. This endeavor encompassed a thorough exploration and refinement of various aspects to bolster the platform's effectiveness. The project's core objectives focused on improving visibility, optimizing user flow, enhancing accessibility, redefining navigation, and boosting overall usability. Guided by a structured and strategic approach, I combined systematic methods, advanced digital tools, and collaborated dynamically with stakeholders. This concerted effort resulted in a substantial improvement in both user experience and the accuracy of information delivery. Notably, these accomplishments are reflected in the enhanced interface and smoother user interactions, aligning seamlessly with the site's safety-oriented mission. This report provides a comprehensive analysis of the project's multifaceted goals. It delves into the deployed methodologies, strategies, achieved milestones, and insightful observations. Additionally, it addresses the intricacies of challenges encountered along the way, highlighting the dynamic nature of executing projects within an esteemed institution like CERN. This compilation of efforts not only outlines achievements but also serves as a roadmap for future endeavors, illuminating pathways for ongoing enhancements.

Acknowledgements

I extend my heartfelt appreciation to the individuals who played pivotal roles in guiding, supporting, and contributing to the accomplishment of this project. Mr. Zakaria Oichikh's expertise and insights enriched the project's execution, while Mr. Roberto Perruza provided valuable feedback and strategic guidance throughout the design process. Mr. Stephane Bally's contributions enhanced the structure, information, and visuals of the Radiation Protection Page, and Ms. Dawn Hudson and Ms. Inna Berezhetska both offered great support and encouragement while working on the visit's page in both ensuring contents accuracy of the page as well as its overall navigation. These individuals were instrumental in the project's success, and their expertise, guidance, and support were invaluable. I express my gratitude and look forward to the prospect of future collaborations.

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Introduction

The final report outlines a focused effort carried out as part of the CERN Summer Student Program. The project titled "Enhancing the CMS Safety Website's Functionality and Information Process," is a collective effort to improve user experience and information exchange efficiency. The CMS Safety Website is critical in increasing safety awareness and facilitating communication among CMS collaborators. The project was carefully intended to address essential features such as design improvements, navigation refinement, accessibility advances, and general usability optimization, with a clear awareness of its value.

Objectives

The project discussed in this report embarked on a purposeful journey guided by a set of clear objectives. At the forefront of these objectives was the aspiration to elevate the user experience by instigating improvements across key facets. The project aimed to enhance the design aesthetics, optimize navigation pathways, augment accessibility features, and refine the overall usability of the CMS Safety Website.

The underlying motivation for this initiative stemmed from the pivotal role the website plays in fostering safety awareness and facilitating effective communication within the community of CMS collaborators. Recognizing the significance of this role, the project sought to ensure that the website not only functioned efficiently but also provided a seamless and engaging experience for its users.

To realize these objectives, the project embraced a strategic approach that included meticulous planning, methodical execution, and active collaboration. By aligning these efforts with the esteemed standards upheld by CERN, the project aimed to create a platform that not only met the expectations of its users but also reflected the institution's commitment to excellence.

In summary, the objectives of the project were rooted in the aspiration to elevate the CMS Safety Website's capabilities, making it an even more valuable resource for safety awareness and information dissemination among CMS collaborators. Through targeted enhancements and a user-

centric approach, the project aimed to create a digital space that was not only functional but also intuitive and engaging, aligning seamlessly with CERN's overarching mission.

Methodology

Underpinning the project's execution were strategic methodologies that collectively paved the path toward achieving the project's objectives. Collectively, these methodologies formed a structured framework that harmoniously blended technical skill acquisition, stakeholder collaboration, user feedback, and expert guidance. This comprehensive approach fortified the project's execution, yielding design enhancements that resonated with user expectations and reflected the essence of CERN's commitment to excellence.

- Learning Drupal and its Functionalities

Central to this effort was the acquisition of proficiency in Drupal, the content management system powering the website. This foundational step was pivotal in comprehending the technical framework and inherent capabilities of Drupal, thereby facilitating the subsequent design enhancement process.

- Developing a Comprehensive Survey

A structured survey was meticulously crafted to serve as a conduit for capturing insights from stakeholders and users. The survey's design focused on eliciting feedback encompassing design preferences, usability concerns, and user experiences. This comprehensive approach ensured that the design enhancements aligned with the needs and expectations of the website's users.

- Conducting Meetings with Stakeholders

The project's success was fortified by collaborative discussions held with key stakeholders, including CMS Collaborators, safety officers, and domain experts. These interactions provided invaluable feedback, offering insights that substantially informed and guided the project's design decisions. The integration of diverse perspectives ensured a holistic approach to design refinement.

- Supervisor's Engagement

The project thrived through consistent engagement with the supervisor, enabling the infusion of expert insights, feedback, and guidance into the execution process. These regular interactions ensured alignment with project goals, technical considerations, and extensive standards set by CERN.

Strategy

Embedded within the project's success were strategic approaches that guided the attainment of project objectives. These strategies collectively underscored the project's approach to design enhancement, encompassing thorough evaluation, progressive refinement, and skillful execution. The seamless integration of these strategies encapsulated the project's journey from analysis to realization, ensuring a harmonious alignment between conceptualization and tangible outcomes.

- Design Review and Analysis

A thorough assessment of the existing website design was undertaken, finding critical shortcomings such as challenges with navigation, structural deficiencies, redundant information, and content gaps. This meticulous analysis provided a foundational understanding, serving as a basis for initiating design improvements.

- Prototyping and Iterative Design

Exploiting progressive design tools such as Figma and draw.io, a series of prototypes were precisely crafted. Each iteration was thoughtfully refined through a process of feedback integration from stakeholders and alignment with design principles. This iterative approach ensured a gradual evolution toward refined and optimal prototypes.

- Development and Execution

The conceptual designs were translated into tangible outcomes through the development phase. Design changes and enhancements were executed, with focused attention on refining layout, structural elements, and interactive components. This phase represented the bridge between design vision and tangible implementation, bridging the conceptual and practical domains.

Tools

The successful realization of the project "Enhancing CMS Safety Website Design" was underpinned by the proficient utilization of a collection of software tools tailored to distinct stages of the design and development trajectory. These tools emerged as integral enablers, fostering the creation of an enriched website, elevating user experience, ensuring optimized information accessibility, and driving the achievement of project objectives. Each tool was deliberately chosen to address specific project requisites, thereby enhancing operational efficiency and effectiveness throughout the course of execution.

1. Drupal:

Drupal, a robust content management system, formed the foundation of the project's technical implementation. By joining Drupal's capabilities, seamless integration of design alterations, content updates, and navigation enhancements was achieved. However, it's noteworthy that certain envisioned designs, like the Who Are We page, encountered limitations in execution, a topic elaborated on subsequently in this report.

2. Figma:

Figma, a collaborative design platform, emerged as an instrumental resource for crafting interactive prototypes and mockups, represented in Appendix A. Leveraging its real-time collaborative features, iterative design enhancements were enabled, influenced by the invaluable feedback sourced from stakeholders.

3. Draw.io:

The draw.io diagramming tool was employed to create flowcharts and diagrams to be integrated in some pages of the website to present the information clearly. the exact usage of this tool is explained clearly, with the mentioned diagrams presented, in appendix B.

4. Google Docs:

Google Docs was used to create a structured user survey that gathered valuable insights and feedback from stakeholders. The platform's survey analysis features helped in summarizing and interpreting survey responses. the survey responses are presented in Appendix C.

5. Microsoft Office Suite:

Microsoft Word and PowerPoint served as instrumental components for documentation, data organization, and preparation of presentations. It's important to note that the documentation process commenced, yet encountered challenges due to time constraints, particularly considering evolving design alterations.

6. Communication Platforms:

Varied communication platforms, including email and Zoom, played a critical role in fostering interactions with stakeholders. These platforms facilitated the seamless exchange of feedback, expert guidance, and collaborative discussions.

Challenges

The journey to enhance the CMS Safety Website was not without its challenges. As part of the project's execution, several hurdles were encountered that required creative problem-solving, adaptation, and collaboration. By addressing these challenges, valuable lessons were learned, contributing to a more comprehensive understanding of the project's intricacies. The challenges faced include:

1. Integration with Legacy Systems

The pre-existing CMS Safety Website operated on a legacy system, presenting compatibility issues when introducing contemporary design enhancements. The resolution involved close collaboration with technical experts to identify workarounds, ensuring the harmonious integration of new design elements.

2. Multilingual Content Management

The project's bilingual nature, accommodating content in both English and French, posed intricate challenges in terms of content translation, layout, and maintaining a consistent user experience. Solutions were sought through research into multilingual content management strategies and

exploration of Drupal's translation capabilities to uphold content integrity. However, the execution did not extend to translating the content.

3. Stakeholder Diverse Preferences

Collaborating with a diverse group of stakeholders led to varying design preferences and feedback, necessitating a delicate balance to ensure alignment. This challenge was addressed through multiple feedback sessions, identification of common ground, and the implementation of design decisions resonating with the majority.

4. Time Constraints and Iterations

The iterative design processes, pivotal for enhancement, introduced time constraints that influenced the project's pace and timeline. Solution involved prioritizing design iterations based on critical feedback, guaranteeing that essential enhancements were managed within the designated timeframe.

5. User Navigation Complexity

Simplifying user navigation without oversimplifying content structure presented a strategic challenge. To navigate this complexity, undocumented user testing sessions were conducted to gauge navigation preferences, and navigation elements were fine-tuned accordingly.

6. Technical Learning Curve

Acquiring proficiency in Drupal, especially for specific technical modifications, presented a notable learning curve. Solutions were sought through dedicated investment in online resources, guidance from experienced developers, and active engagement with the Drupal community for support. Further explanation on this matter is provided in Appendix D.

7. Content Fact-Checking and Verification

Ensuring the accuracy of extensive content necessitated detailed fact-checking and verification processes. The challenge was overcome through close collaboration with content owners and subject matter experts, validating information for utmost reliability.

8. Remote Collaboration Challenges:

The remote-friendly work environment introduced communication challenges, impacting real-time collaboration and feedback exchange with the stakeholders. Addressing this challenge involved the effective utilization of virtual communication tools, the scheduling of regular virtual meetings, and maintaining clear and consistent communication channels.

9. Design and Aesthetic Balancing

Balancing design enhancements with the imperative to maintain the CERN brand identity and visual consistency posed a creative challenge. This challenge was resolved through close collaboration with design experts and stakeholders to ensure that design improvements aligned seamlessly with the organization's branding guidelines.

Moreover, major requirement for the "Who Are We" page was its ease of updating, presenting a significant challenge during implementation. Unfortunately, the designated module for this task was not compatible with Drupal 9 due to outdated compatibility issues. Consequently, a temporary solution involved capturing screenshots of the pre-designed page and uploading them. However, this approach proved impractical, as it rendered the page's links non-functional, thereby impeding the user experience.

10. Lessons Learned and Adaptation

These challenges were instrumental in imparting lessons in adaptability, effective communication, and creative problem-solving. Each challenge offered an opportunity for growth and refinement, culminating in a more holistic approach to project execution. The lessons garnered are poised to enrich future projects, ensuring smoother and more effective execution processes.

Conclusion

In conclusion, the project successfully met its core objectives by transforming the CMS Safety Website into a more user-centric, accessible, and informative platform. The transformation is evident through a comparative analysis of the website's before-and-after states, revealing tangible improvements in design, usability, and navigation. Looking forward, the project anticipates two key actions: translating content into French to cater to a broader audience and devising an effective design structure for the "Who Are We" page.

Resources

In order to perfect any project, supporting documents are always needed, the following list presents the documents that where of great help in the whole process.

- The website that will be modified: <https://cmssafety.web.cern.ch/>
- The conducted survey: <https://forms.gle/khScGSSUmfWWUvg9>
- The guide for the system that is used:
https://www.drupal.org/docs/user_guide/en/index.html
- Internal document: CMS Safety Website Guide
- Internal document: Drupal 7Bigger.
- Websites analyzed:
 - <https://hse.cern/services-support/safety-computing> - <https://en.web.cern.ch/>
 - <https://sy-dep.web.cern.ch/>
 - <https://ep-dep.web.cern.ch/>

Appendices

Appendix A: Prototype

Within this appendix, you will find a collection of prototypes that visually depict the evolution of the CMS Safety Website. These prototypes were created using Figma and refined with feedback from stakeholders. They serve as tangible representations of the project's dedication to improving user experience and information delivery.

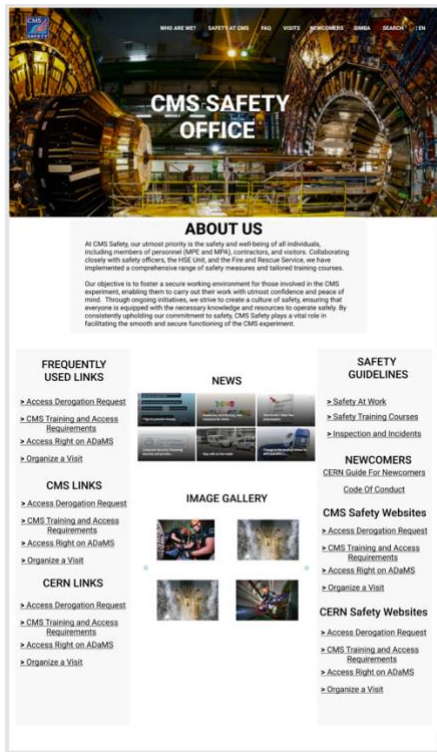


Figure 1: Homepage Prototype

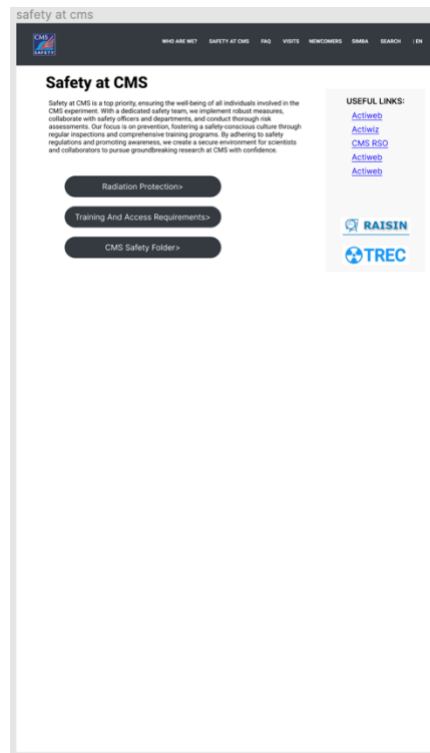


Figure 2: Safety at CMS Prototype

Figures 1 and 2 demonstrate the suggested prototype of both the Homepage and the Safety At CMS page. The suggested change for the Homepage doesn't require much work, it just rearranges the information in a better and clearer order, it also removes all redundant information. The main page for the Safety At CMS, however, suggests to add an introductory paragraph, and include all the useful links in that page for easy access. The Safety At CMS page is linked in the main navigation bar.

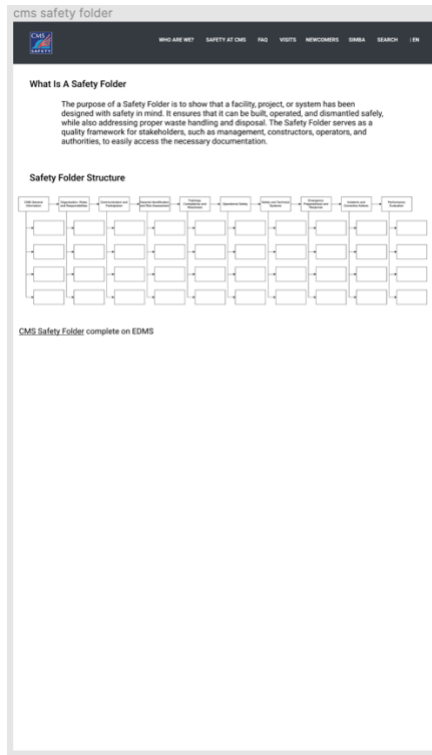


Figure 3: Safety Folder Prototype

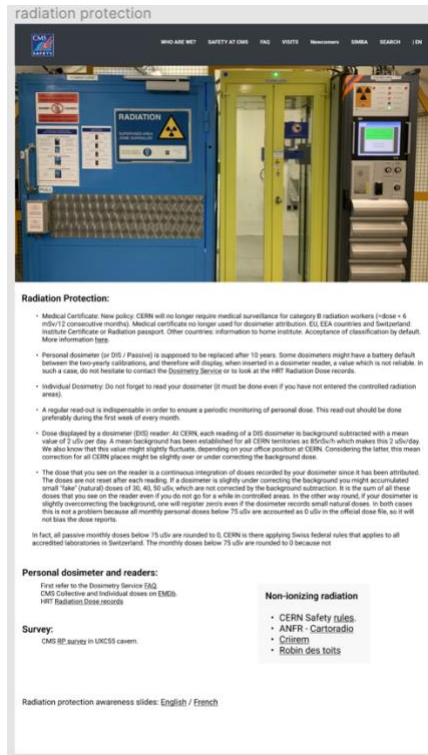


Figure 4: Radiation Protection Prototype

Figures 3 and 4 demonstrate the suggested prototype for both the Safety Folder page and the Radiation protection. The prototype for the safety folder page suggests that it adds an introductory paragraph, and removes the redundant buttons to demonstrate the information clearer using a diagram to better illustrate its structure. The prototype for the radiation protection page, however, suggests just to rearrange the information presented in the page and renew them to keep the website updated.

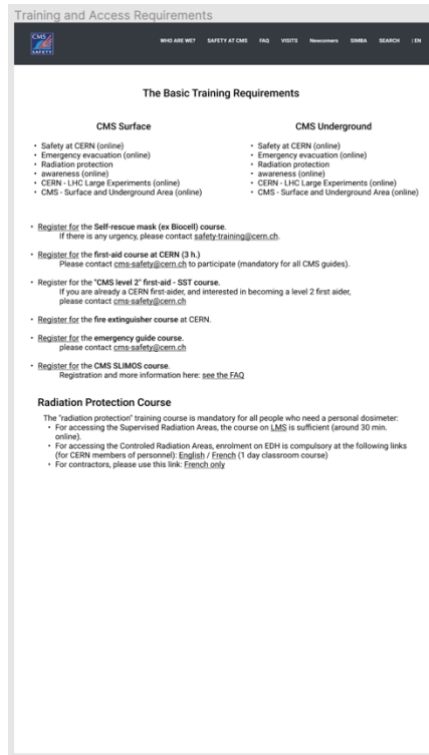


Figure 5: Training Access and Requirements Prototype

Next, the Training and Access Requirements Prototype shown in Figure 5. It just suggests renewal of the information presented in the page, including the links and the online courses listed, and also rearrangement of that information.

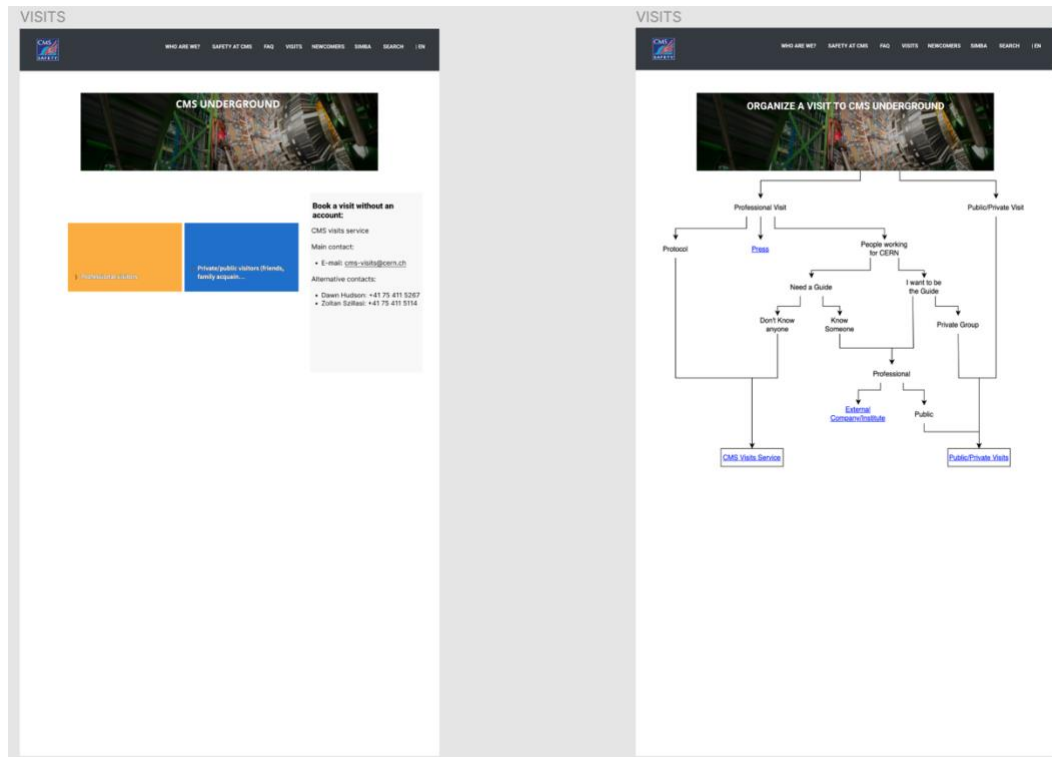


Figure 6: Visits Prototype

Lastly, as shown in Figure 6, the modification to be done on the visits page. As known, that page in particular, has bad navigation and a lot of buttons that have little to no use. So, the prototype suggests to remove all the buttons and depend solely on the flow chart, as seen the way its illustrates, it answers almost all the questions that were presented in the previous version of the website.

It is important to note that the prototypes presented in this section don't cover all the pages modified. The FAQ page, the Newcomers page, as well as the Who Are We page, that represents the team, have no prototypes done. As the FAQ page didn't require much change, only to remove the redundant information about Covid-19, as well as to add a search bar for easy navigation.

Appendix B: Draw.io Diagrams

This appendix offers a visual journey into the strategic use of draw.io, a versatile diagramming tool that played a pivotal role in enhancing the CMS Safety Website. The purpose of this tool was to create clear and informative flowcharts and diagrams, thoughtfully integrated into select pages of the website. In this section, the exact applications and intricacies of draw.io are detailed, providing insights into how these visual aids were designed to improve the clarity and accessibility of information.

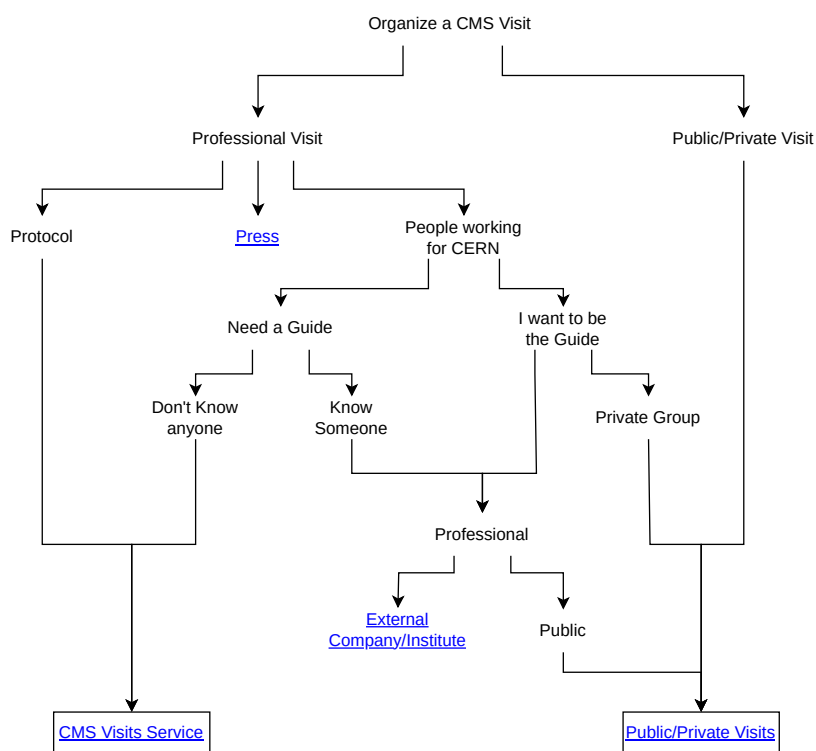


Figure 7: Visits page Diagram

As figure 7 clearly shows the flowchart to be presented in the visits page, to clearly show the steps of how to organize a visit to the CMS project, and it is added to the webpage by converting the diagram into html code and pasting it in the “source” section of the desired page.

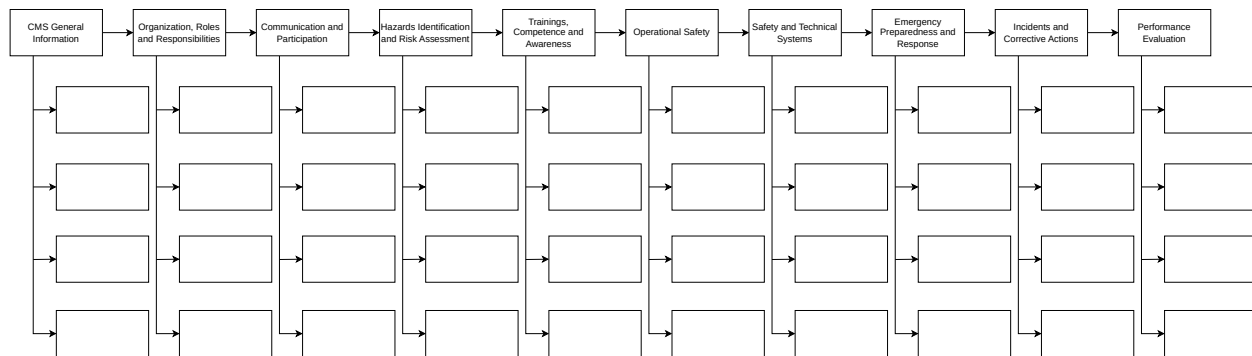


Figure 8: safety folder diagram

The diagram in figure 8 shows the organization of the CMS safety folder, and it is displayed on the CMS Safety folder page. The steps for displaying it are the same as those of the visits page. Which are the following:

1. Open the Draw.io website
2. Click on the FILE tab then OPEN FROM then browse for the desired diagram
3. Make the changes that you wish to do on the diagram
4. Then click on FILE => EXPORT AS => HTML
5. Change the border color to Black
6. Uncheck everything then click on EXPORT

And now you will have your HTML code to copy and paste it in the “source” of the section in Drupal.

Note: if you want to display the diagram with the options to zoom in and out same as the safety folder one, you should uncheck everything from step 6 except the ZOOM and the FIT options.

Appendix C: Survey Outcome

Survey Introduction:

- In English:

Dear CMS Safety website user,

We value your opinion and would greatly appreciate your feedback to help us improve the usability, themes, FAQs inclusivity, and overall user experience of the CMS Safety website. Your input will play a vital role in shaping the future enhancements of the website to better serve the needs of CMS collaborators like yourself.

This brief survey aims to gather your insights and opinions regarding various aspects of the website. Your responses will remain anonymous and confidential. Your honest feedback will assist us in identifying areas for improvement and implementing changes that align with your requirements.

Thank you for taking the time to participate in this survey. Your valuable input is instrumental in our continuous efforts to enhance the CMS Safety website. Please answer the following questions based on your experiences and perceptions. Your feedback is highly appreciated.

Warm regards,

The CMS Safety Department

- In French:

Cher utilisateur du site Web de CMS Safety, Nous apprécions votre opinion et apprécierions grandement vos commentaires pour nous aider à améliorer la convivialité, les thèmes, l'inclusivité des FAQ et l'expérience utilisateur globale du site Web de CMS Safety. Votre contribution jouera un rôle essentiel dans l'élaboration des futures améliorations du site Web afin de mieux répondre aux besoins des collaborateurs CMS comme vous.

Cette brève enquête vise à recueillir vos idées et opinions concernant divers aspects du site Web. Vos réponses resteront anonymes et confidentielles. Vos commentaires honnêtes nous aideront à identifier les domaines à améliorer et à mettre en œuvre les changements qui correspondent à vos besoins.

Merci d'avoir pris le temps de participer à cette enquête. Votre précieuse contribution est déterminante dans nos efforts continus pour améliorer le site Web de CMS Safety. Veuillez répondre aux questions suivantes en fonction de vos expériences et de vos perceptions. Vos remarques sont très appréciées.

Meilleurs vœux,

Le service de sécurité de CMS

Survey Questions:

1. How frequently do you visit the CMS Safety website?
À quelle fréquence visitez-vous le site Web de CMS Safety?
2. On a scale of 1 to 10, how would you rate the overall usability of the CMS Safety website?
Sur une échelle de 1 à 10, comment évaluez-vous la Facilité d'utilisation globale du site Web de CMS Safety?
3. Are there any aspects of the website's design or layout that you find confusing or difficult to navigate?
Y a-t-il des aspects de la conception ou de la mise en page du site Web que vous trouvez déroutants ou difficiles à naviguer?
4. How satisfied are you with the current theme and visual appearance of the website?
Êtes-vous satisfait du thème actuel et de l'apparence visuelle du site?
5. Are there any specific elements or sections of the website that you find visually appealing or unappealing?
Y a-t-il des éléments ou des sections spécifiques du site Web que vous trouvez visuellement attrayants ou peu attrayants ?
6. Do you find it easy to locate the information you need on the website?
Trouvez-vous facile de trouver les informations dont vous avez besoin sur le site Web ?
7. Are the FAQs on the website comprehensive and helpful in addressing almost all questions?
Les FAQ sur le site Web sont-elles complètes et utiles pour répondre à presque toutes les questions ?
8. Is there any specific information or content that you feel is missing from the website and should be included?

Y a-t-il des informations ou du contenu spécifiques qui, selon vous, manquent sur le site Web et devraient être inclus?

9. Do you encounter any technical issues or errors while using the website?
Rencontrez-vous des problèmes techniques ou des erreurs lors de l'utilisation du site Web?

10. If yes, describe the issue, please.
Si oui, décrivez le problème, s'il vous plaît.

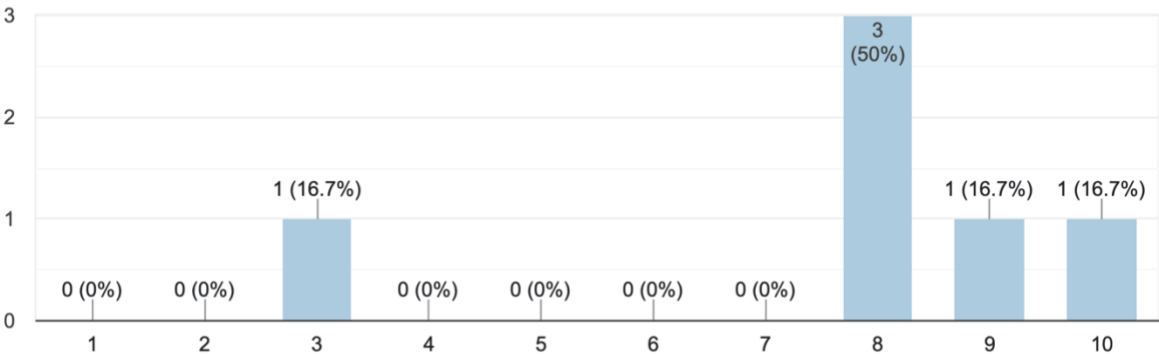
11. What improvements would you suggest to enhance the user experience of the CMS Safety website?
Quelles améliorations suggéreriez-vous pour améliorer l'expérience utilisateur du site Web de CMS Safety?

12. Is there any specific functionality or feature you would like to see added to the website?
Y a-t-il une fonctionnalité ou une caractéristique spécifique que vous aimeriez voir ajoutée au site Web?

Survey Outcome:

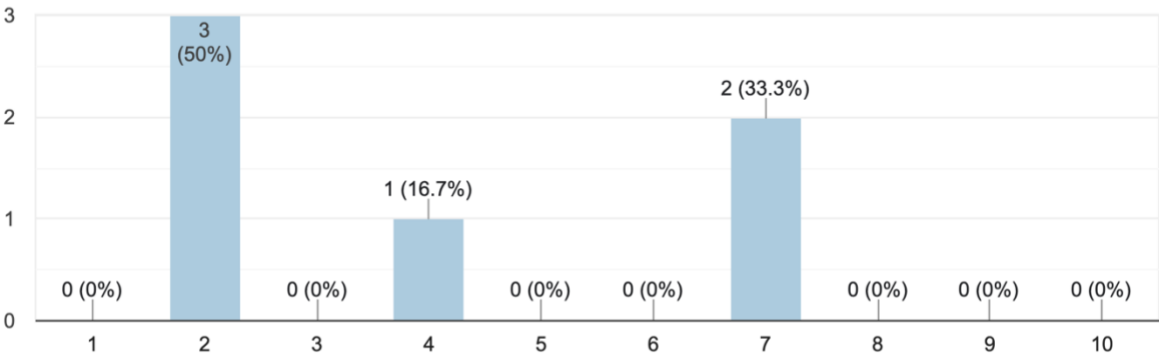
How frequently do you visit the CMS Safety website? À quelle fréquence visitez-vous le site Web de CMS Safety ?

6 responses



On a scale of 1 to 10, how would you rate the overall usability of the CMS Safety website? Sur une échelle de 1 à 10, comment évaluez-vous la Facilité d'utilisation globale du site Web de CMS Safety ?

6 responses



Are there any aspects of the website's design or layout that you find confusing or difficult to navigate?

Y a-t-il des aspects de la conception ou de la mise en page du site Web que vous trouvez déroutants ou difficiles à naviguer ?

6 responses

When the cavern is opened and classified supervised area How to find activity ongoing and to request for a vic and to find plan of CMS site with all safety equipment for first aid and how the waste is managed

Some info are outdated or redundant. The FAQ are difficult to navigate. The search function is not really helping in its functionality.

The language box is weird in the left upper corner, Overview of the services provided by CMS Safety Team could be added, General Things to consider for general safety could be added

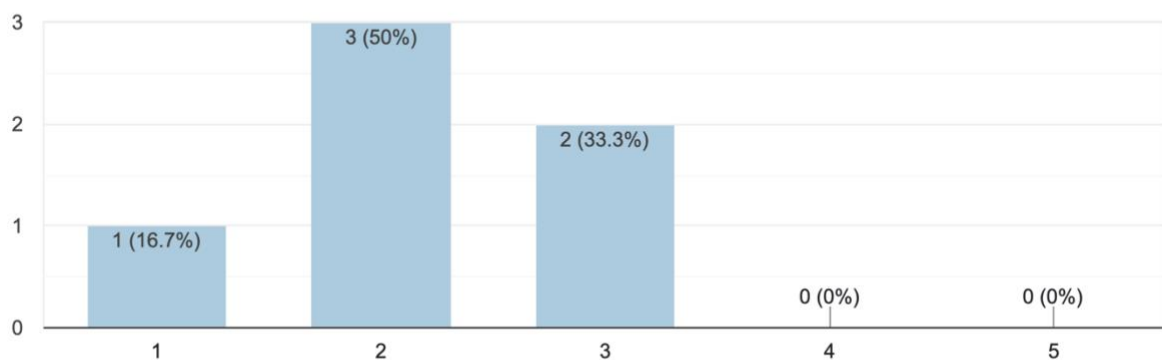
I do not use it frequently

No

No, it is rather simple.

How satisfied are you with the current theme and visual appearance of the website? Êtes-vous satisfait du thème actuel et de l'apparence visuelle du site ?

6 responses



Are there any specific elements or sections of the website that you find visually appealing or unappealing?

Y a-t-il des éléments ou des sections spécifiques du site Web que vous trouvez visuellement attrayants ou peu attrayants ?

6 responses

No

FAQ should be by field and the training excel is really useful

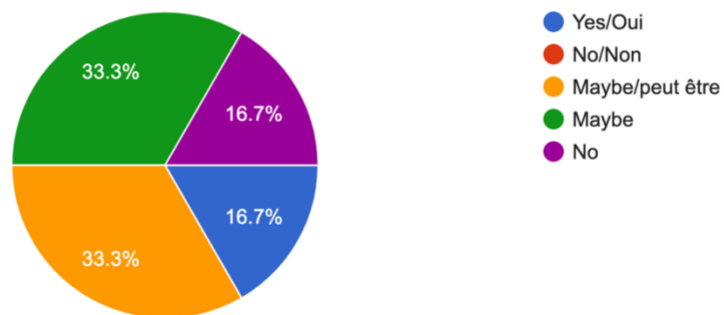
Unappealing : FAQ, news, who are we? Appealing: visits, safety at cms

Moving texts and animations are appealing

Just a detail, the writing of the radiation part is different

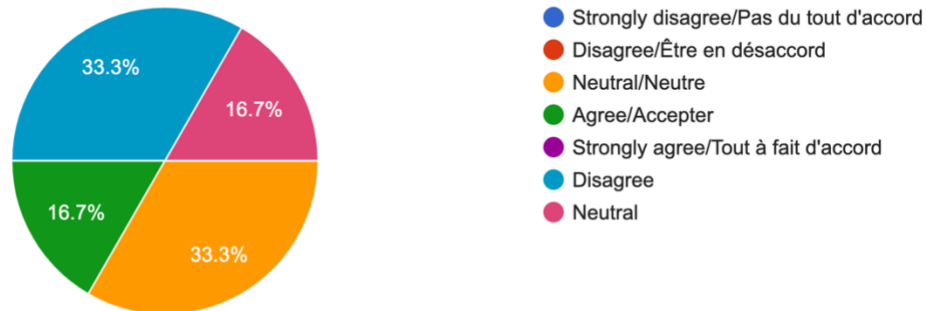
Do you find it easy to locate the information you need on the website? Trouvez-vous facile de trouver les informations dont vous avez besoin sur le site Web ?

6 responses



Are the FAQs on the website comprehensive and helpful in addressing almost all questions? Les FAQ sur le site Web sont-elles complètes et utiles pour répondre à presque toutes les questions ?

6 responses



Is there any specific information or content that you feel is missing from the website and should be included?

Y a-t-il des informations ou du contenu spécifiques qui, selon vous, manquent sur le site Web et devraient être inclus ?

5 responses

No really, simply a better organisation/update of them would help. To get include better newcomers inputs. Maybe specific section for safety roles and needs

Maybe a section of how each individual could enhance safety at CMS (How they can involve personally but also who can they contact in what case)

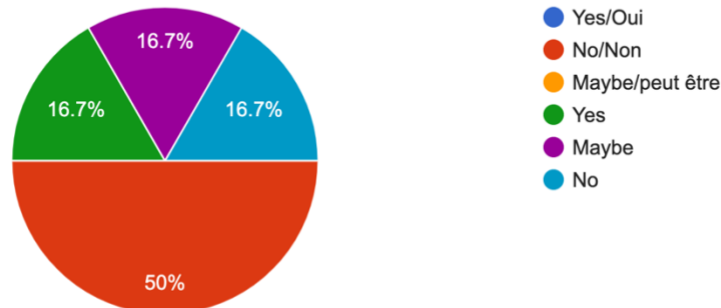
I do not know

Short Access Organisation

I replied "Maybe" to the question about how easy it is to find the information because I was not searching for anything specific, so I have difficulty replying. I find the FAQ well done. I have not read everything and opened all the links, but I think it is useful. I like the fact that it is only one page with all questions. It makes it easy to do a "ctrl + F" and search for the correct topic. Maybe it could be useful as well to be able to search for keywords also in the answer by doing a "ctrl+F", but I am not sure it is feasible.

Do you encounter any technical issues or errors while using the website? Rencontrez-vous des problèmes techniques ou des erreurs lors de l'utilisation du site Web ?

6 responses



If yes, describe the issue, please.

Si oui, décrivez le problème, s'il vous plaît.

2 responses

When using simba

The visualisation of the research via the search function is really bad

What improvements would you suggest to enhance the user experience of the CMS Safety website?

Quelles améliorations suggèreriez-vous pour améliorer l'expérience utilisateur du site Web de CMS Safety ?

4 responses

People with safety role and structure of the safety organization

FAQ (as reported above): to have them better searchable (maybe chatbot?) To have more guided structures (like the visits page one) for the different processes within CMS (i.e. activity approval process, material acceptance process... in short to translate in easy way CMS's processes interesting for the collaboration)

Intuitive navigation (maybe it would also be interesting to see why people are reaching the CMS Safety website and what they are expecting to see/get)

Nothing yet comes to my mind. Just there are some grey squares for the view of the safety officers. I like the fact that it is simple with not too much information. It is easier to perform the updates. It is nice to have a presentation of the team with pictures.

Is there any specific functionality or feature you would like to see added to the website?

Y a-t-il une fonctionnalité ou une caractéristique spécifique que vous aimeriez voir ajoutée au site Web ?

4 responses

Chatbot. More videos showing the SRM triggered video showing the exit from LHC

Better search functionality

The navigation to some things is sometimes too complicated. I.e. for organizing a visit you will click box after box to get redirected for finally receiving only one contact address. Maybe that could be simplified.

No. Well, done. I remain available if you want to discuss my replies. Laetitia Bardo

Appendix D: Resource Allocation: Learning Drupal

Learning Drupal, a versatile content management system, was a pivotal resource allocation in the successful execution of the project "Enhancing CMS Safety Website Design". The decision to dig into Drupal was driven by the project's core objectives of improving website visibility, fluidity, and accessibility. This section explores the resource allocation dedicated to mastering Drupal, its impact on project outcomes, and the learning strategies employed.

- Rationale for Learning Drupal:

Drupal's robust capabilities as an open-source platform offered the necessary flexibility to implement design enhancements, optimize content management, and ensure a seamless user experience. Learning Drupal was imperative to navigate its intricate features, utilize modules, and translate design concepts into practical implementations.

- Allocating Time and Effort:

A considerable portion of the project timeline was allocated to acquiring proficiency in Drupal. This resource allocation was strategic, recognizing the role of technical expertise in executing design changes effectively. As a summer student, allocating time for skill development showcased the commitment to delivering impactful outcomes.

- Learning Strategies:

Utilizing comprehensive online tutorials and official Drupal documentation formed the initial learning phase. This approach laid the foundation for understanding Drupal's architecture, terminology, and fundamental functionalities. Then comes the hands-on practice through sandbox environments allowed for experimentation, facilitating a deeper understanding of content creation, layout customization, and module integration.

Engaging with the Drupal community through forums and discussion platforms provided insights into real-world challenges and solutions faced by developers. Seeking guidance from experienced Drupal developers within the CMS Safety Office ensured practical insights, quick troubleshooting, and effective learning.

- Impact on Project Outcomes:

The investment in learning Drupal translated into tangible project outcomes. Proficiency in Drupal empowered the execution of design enhancements, optimizing information presentation and user interactions. The ability to navigate Drupal's backend enabled streamlined content updates and additions, ensuring accurate and up-to-date information. Also, the learned skills facilitated the implementation of responsive design, catering to diverse device screen sizes for improved user accessibility.

- Skill Transferability:

The acquired Drupal expertise extends beyond this project, contributing to a broader skill set applicable to future web development projects. The ability to harness Drupal's capabilities not only enriched this project's execution but also lays the groundwork for continued contributions to digital projects.

- Lessons Learned:

While learning Drupal demanded dedicated time and effort, the investment proved invaluable. It reinforced the importance of proactive skill development to enhance project capabilities and expand technical proficiencies.