Project: Modernize CC Resource Archive

Project Synopsis

This project aims to upgrade the Resources Archive to match the current visual aesthetic of Creative Commons sites and improve its overall user experience. The codebase will be refactored to fix resource submission and use current semantic, accessible, and standards-compliant HTML, CSS, and JavaScript. The internal Design System (Vocabulary) will be used to upgrade the look and feel of the site. The final implementation will function as a static and stable Jekyll site hosted on GH Pages as static files.

The Resources Archive currently suffers from outdated visual setup and functionality issues, which make it difficult for users to find, submit, and access resources. The project will address these issues and provide a more user-friendly experience for the site's visitors.

The codebase will be thoroughly refactored to ensure that it adheres to current standards and is maintainable in the long term. The site will be built as static files on GH Pages, making it stable and easy to deploy. Clear documentation will be drafted within the codebase to facilitate future maintainability.

Overall, the project will significantly improve the Resources Archive's look and feel, functionality, and user experience, making it a more valuable and accessible resource for Creative Commons users.

Project Plan

The Problem

The Resources Archive has an outdated visual setup and needs functionality fixes and improvements.

The Solution

To solve the problem, the following solution will be implemented:

1. Refactor codebase: The codebase of the Resources Archive will be refactored to fix resource submission issues and ensure that it adheres to modern web development best practices. The code will be updated to use current semantic, accessible, and standards-compliant HTML, CSS, and JavaScript. The code organization will be improved, and clear documentation will be added to ensure future maintainability.

2. Visual redesign: The visual aesthetic of the Resources Archive will be updated to match the current visual aesthetic of Creative Commons sites. This will involve using modern design principles such as minimalism, whitespace, and typography. The site will be made responsive and accessible to ensure that it can be used on all devices and by people with disabilities.

3. UX improvements: The user experience of the site will be improved by implementing user-friendly features such as advanced search functionality, filtering and sorting options, and clear navigation. The site will be optimized for performance to ensure that it loads quickly and works smoothly.

4. Static site hosting: The Resources Archive will be hosted as a static Jekyll site on GitHub Pages. This will ensure that the site is stable, secure, and easy to maintain. Static site hosting will also provide improved security by eliminating the need for a backend server.

5. Documentation: Clear documentation will be drafted within the codebase to ensure future maintainability. This will include documentation for the code structure, design decisions, and implementation details. The documentation will be clear and concise, making it easy for future contributors to understand and maintain the site.

By implementing these solutions, the final implementation will result in a modern, user-friendly, and visually appealing Resources Archive that adheres to current web development best practices. The improved user experience will make it easier for users to find, submit, and access resources. The site will be stable and easy to maintain due to the use of static site hosting and clear documentation.

Alternative Solution: Refactoring and Improving Resources Archive Visual Setup and Functionality using Next.js and Tailwind CSS for implementing features like server-side rendering simplified codebase.

The final implementation will result in a modern and user-friendly Resources Archive that adheres to current web development best practices and matches the visual aesthetic of Creative Commons sites. It will provide a better user experience for finding, submitting, and accessing resources and will be a stable and easy-to-maintain static site. The use of Next.js and Tailwind CSS will provide an efficient and modern framework for developing the site, ensuring that it is optimized for performance and responsive across all devices.

Research & References

As someone passionate about open access and promoting equitable access to information, I have researched the benefits of improving the usability and comprehensiveness of open access and Creative Commons licensed resource archives. From my findings, I have learned that user-centered design principles, such as improving search and filtering options, can significantly improve the usability of open-access repositories and lead to increased usage and impact of the resources. Additionally, creating educational resources and conducting user needs assessments can also help to promote the use of open-access repositories and increase awareness of available resources, as suggested in studies published in the Journal of Librarianship and Scholarly Communication and the International Journal of Digital Curation.

Moreover, I have come across several examples of existing open access and Creative Commons licensed resource archives that can provide inspiration for the Modernize CC Resource Archive project. For instance, the Directory of Open Access Journals (DOAJ) provides a comprehensive directory of open-access journals, with advanced search and filtering options to make it easier to discover relevant materials. Similarly, the Creative Commons Search tool enables users to search for and discover Creative Commons licensed content across a variety of platforms, including Flickr, YouTube, and Google Images.

By drawing on these examples and incorporating research-based best practices, I believe that the Modernize CC Resource Archive project has the potential to make a meaningful contribution to the promotion and adoption of open access and CC licensing.

Timeline & Deliverables

Timeline	Deliverables
Pre-work program	• Week 1: Review the current Resources Archive codebase and document its features, issues, and areas for improvement. • Week 2: Research and gather information about modern web development best practices, current design trends, and accessibility standards. • Week 3: Familiarizing me with Jekyll and GitHub Pages
Week 1 (5/29-6/4)	**Refactor codebase** • Identify and prioritize the most critical issues with the codebase. • Refactor the codebase to address the identified issues. • Implement updated semantic, accessible, and standards-compliant HTML, CSS, and JavaScript.
Week 2 (6/5-6/11)	**Visual redesign** • Develop a design plan and create wireframes for the Resources Archive. • Implement the visual redesign using modern design principles and the current Creative Commons site aesthetic.
Week 3 (6/12-6/18)	**UX improvements** • Implement advanced search functionality with filtering and sorting options. • Improve navigation and information architecture. • Test the updated site and gather feedback for further improvements.
Week 4 (6/19-6/25)	*Static site hosting* • *Set up GitHub Pages hosting for the Resources Archive.* • *Integrate the updated codebase into the static site structure.* • *Test the static site hosting and ensure the site functions properly.*
Week 5 (6/26-7/2)	**Documentation** • Develop clear and comprehensive documentation for the codebase, design decisions, and implementation details. • Review and improve documentation for clarity and completeness.
Week 6 (7/3-7/9)	**Iterative improvements** • Gather feedback from users and contributors. • Implement improvements to the design, UX, and codebase based on feedback

Week 7 (7/10-7/16)	• Test the updated site and gather feedback for further improvements. • Midterm Evaluation
Week 8 (7/17-7/23)	**Testing and QA** • Test the site thoroughly, including cross-browser compatibility, accessibility, and performance. • Identify and fix any remaining issues.
Week 9 (7/31-8/6)	**Finalize improvements** • Implement final improvements to the codebase, design, and UX.
Week 10 (8/7-8/13)	• Test and review for accuracy and completeness.
Week 11 (8/14-8/20)	**User Acceptance Testing** • Conduct user acceptance testing to ensure that the Resources Archive meets the needs and expectations of users.
Week 12 (8/21-8/26)	**Launch** • Launch the updated Resources Archive to the public. • Monitor the site and make any necessary adjustments post-launch. • Submitting final work and Final Evaluation
Post work program	• Monitor site analytics and user feedback to identify areas for ongoing improvement. • Regularly test the site for accessibility, performance, and security. • Stay up to date with current web development best practices and design trends to inform future updates. • Continuously communicate and collaborate with contributors, users, and contributors to ensure the ongoing success and relevance of the Resources Archive. • Schedule periodic reviews of the codebase, design, and UX to identify potential areas for further improvement.

Questionnaire

Why are you interested in working with Creative Commons, out of all the mentoring organizations available?

As someone passionate about open access and collaboration, I am particularly drawn to Creative Commons (CC) as a mentoring organization for programs like GSoC. CC is a non-profit organization that promotes open access to information and fosters collaboration among creators, and these values are very important to me.

I believe that working with CC would provide a valuable opportunity to contribute to the development of open-source tools and resources, while also gaining experience in software development. CC's mission of promoting open access and collaboration aligns with my own goals, and I am excited about the prospect of making a meaningful contribution to their work.

Furthermore, CC's mission is in line with several of the UN's Sustainable Development Goals, including Goal 4 (Quality Education), Goal 8 (Decent Work and Economic Growth), and Goal 9 (Industry, Innovation, and Infrastructure). As someone who is committed to making a positive impact on the world, I find it, particularly inspiring to work with an organization that is aligned with such important global goals.

Overall, I believe that working with Creative Commons would be an excellent opportunity to gain experience in open-source development and contribute to a mission that I am passionate about.

Why are you interested in working on this project in particular?

The Modernize CC Resource Archive project sounds like an exciting opportunity to make a real difference in the world of open access and Creative Commons licensing. As someone with skills in HTML/CSS, Tailwind CSS/Bootstrap, JavaScript, ReactJS/NextJS, Git, GitHub, UI/UX, GH Pages, graphic design, Docker, research, documentation, and more, I feel that I could make a valuable contribution to this project.

In particular, I am excited about the potential to enhance the search and filtering options for open access materials, and to create educational resources that help promote the adoption of CC licensing. As someone who is passionate about the importance of open access and sharing knowledge, I believe that this project aligns well with my own goals and values.

Furthermore, the project's commitment to using current and standards-compliant technology, as well as its dedication to documenting its codebase and functionality, is something that I find very appealing. This level of attention to detail is crucial for ensuring the long-term sustainability and relevance of the resource archive.

Overall, I am very interested in working on the Modernize CC Resource Archive project because I believe that it has the potential to make a significant impact on the promotion of open access and CC licensing. With my skills in web development, UI/UX design, and documentation, I believe that I could contribute to the project's success and help make a positive difference in the world.

Why are you well-suited to take on this project?

Based on my skills and experience in web development, UI/UX design, and documentation, as well as my passion for open access and sharing knowledge, I strongly believe that I am well-suited to take on the Modernize CC Resource Archive project.

As someone who loves exploring new technologies and continuously improving my technical skills, I am confident in my ability to handle the technical aspects of the project, including improving the search and filtering options, updating the materials with new and relevant content, and creating educational resources. With my expertise in HTML/CSS, Tailwind CSS/Bootstrap, JavaScript, ReactJS/NextJS, Git, GitHub, and more, I am confident in my ability to deliver high-quality results for this project.

As a creative enthusiast, I am passionate about graphic design and UI/UX design. My experience in this field will be invaluable for enhancing the user experience of the resource archive, ensuring that it is easy to navigate and visually appealing. Moreover, I enjoy researching and documenting my work, which will be helpful in ensuring that the project is well-documented and easy for others to use and contribute to in the future.

Moreover, my passion for open access and sharing knowledge is what truly excites me about this project. As someone who believes in the importance of promoting equitable access to information and knowledge, I will bring a level of dedication and enthusiasm to the project that is essential for its success. I am excited to be a part of a project that has the potential to make a meaningful contribution to advancing knowledge and promoting open access.

Overall, I believe that my skills, experience, and passion make me well-suited to take on the Modernize CC Resource Archive project and make a meaningful contribution to advancing knowledge and promoting open access.

Additionally, I have learned to work with Jekyll while setting up CC Archive Repository, a static site generator, which will be helpful in building and maintaining the project's website. With my expertise in Jekyll, I am confident in my ability to create a dynamic and user-friendly website for the resource archive.

Do you have any other commitments during the work program period? Provide dates, such as holidays, when you will not be available.

No, I would make time to work on this project and deliver my work as per the timeline I provided.

If your native language is not English, are you comfortable working closely with a mentor in English?

Certainly, I am comfortable working closely with my mentor in English. English has been my primary language of education both in school and college, so I am fluent in communicating effectively in English. Therefore, I am confident that language will not be a barrier to my ability to work closely with my mentor on this project.

Have you collaborated on a project remotely before?

Yes, I have experience collaborating on projects remotely. During my internship as a content creator and web developer, I worked remotely with my team to create and maintain a website and blog for a NGO. Despite being in different locations, I was able to communicate effectively with my team and meet project deadlines. Working remotely did not have any negative impact on my productivity or ability to contribute to the project. Therefore, I am confident that I can successfully collaborate with the Creative Commons team on this project, even if we are working remotely.

General Information

About Me

I am a highly motivated and experienced programming enthusiast with a passion for web development and open source. I am currently pursuing a Bachelor's degree in Technology (B.Tech) at Deogiri Institute of Engineering and Management Studies, where I have gained expertise in HTML, CSS, and frameworks such as Tailwind CSS and Bootstrap. I have a strong proficiency in JavaScript, React.js, and Next.js, and have developed several web applications using these technologies. Additionally, I am proficient in version control with Git and have experience managing code repositories on GitHub.

In addition to my technical skills, I have a strong background in the user interface (UI) and user experience (UX) design, with a keen eye for detail and a focus on creating intuitive and engaging web experiences. I have also developed skills in graphic design, creating high-quality visual assets for websites.

I have a passion for exploring new technologies and staying up-to-date with the latest trends in web development. I have experience working with Docker for containerization and have conducted independent research on emerging web technologies such as serverless architectures.
I am committed to producing high-quality work and have developed strong documentation skills to support my development projects. Additionally, I have experience deploying websites using GitHub Pages and am skilled in creating and managing project documentation.

Basic Information is

Name & Contact Information			
Full name*	Shubham Vishnu Pitekar	Email address*	shubhampitekar98@gmail.com
Pronouns*	he/him	City, Country*	Aurangabad, India
Slack username*	Shuence	Phone number*	+91 8766539293
Postal address*	Satara Parisar, Aurangabad, Maharashtra, India - 431010	Emergency contact information*	+91 87675064559 shubhampitekar2323@gmail.com
Websites & URLs			
GitHub*	@Shuence	Homepage	Shuence Portfolio
Twitter	@ShubhamPitekar	LinkedIn	Shuence LinkedIn
Other code or work samples	Fitclub:- Fitness Website Landing Page DIEMS:- College Website Redesign		
Education			
Institution	Deogiri Institute of Engineering And Management Studies, Aurangabad - 431005	Degree	B.tech Electronics And Telecommunication Engineering
Major	Electronics	Graduation Year	2026
Courses Taken	The Complete 2023 Web Development Bootcamp - Dr. Angela Yu Responsive Web Design - FreeCodeCamp		

Skills

Skill name	Proficiency (1-5)	Where/how you've used this skill
HTML & CSS	5	Used to create the visual design and layout of the site using current semantic, accessible, and standards-compliant HTML and CSS.
GIT & GitHub	5	Used to version control the projects I built.

JavaScript	4	Used to implement functional improvements and UX enhancements, such as advanced search functionality, filtering and sorting options, and clear navigation.
ReactJs/Nextjs	4	Used as an alternative solution to refactor the codebase and provide a modern and efficient framework for developing a is performant and responsive site.
Tailwind Css & Bootsrap	4	Used as an alternative solution to redesign the site and provide a utility-first CSS framework that allows for fast and efficient styling.
GitHub Pages	4	Used to host the site as a static and stable Jekyll site and ensure that it is secure and easy to maintain and update in the future.
UI/UX - User Experience	4	Used to improve the overall UX for finding, submitting, and accessing resources, implementing user-friendly features, and ensuring that the site is optimized for performance and responsive across all devices.
Graphic Design [Figma, Canva, Adobe XD, etc]	4	Used to create visually appealing and engaging graphics, such as icons, illustrations, infographics, and logos.
Docker	3	Used to Dockerize the projects for convenient development and for best CI/CD Practices.
Research	3	Used to research the best practices used to write code and take inspiration from others' work on the internet
Documentation	3	Used to draft clear documentation within the codebase for future maintainability, including documentation for the code structure, design decisions, and implementation details.

Experience and Contributions

Brief Description	Relevant Links	Additional Notes
DIEMS: My College Website Redesign, The current website is built using WordPress, I redesigned it using ReactJs And TailwindCss	Current Site My Redesign	This Project is ongoing not completed yet
FitClub: A best Fitness Club Landing Page In Reactjs	FitClub	This Site is Build using ReactJs and CSS for styling.
Pull request fixing issue #464	Pull Request #465	Changes are approved

Feature: Doockerize the App CC Chooser	Issue [#469](#)	
Feature: Adding Footer CC Archive	Issue [#104](#)	