Boost Your Digital Portfolio: From Linkedin Profile to Github Repository

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ARTICLE INFO	ABSTRACT
	In the modern era, having a digital portfolio is an important requirement for students and aspiring professionals in the field of technology. To support this, LinkedIn profile management and project publication to GitHub are strategies that can be applied. The activity themed "Boost Your Digital Portfolio: From LinkedIn Profile to GitHub Repository" was held to equip participants with this understanding and skills. The activity consisted of two sessions: a webinar that discussed the preparation of LinkedIn profiles and the use of GitHub as a medium for project publication, and a workshop that focused on developing a template-based portfolio website and publication to the GitHub repository. Evaluation was conducted through a feedback questionnaire. The results showed that 47.9% of participants were satisfied and 48.1% were very satisfied. This shows that the majority of participants gave a positive response to the material, resource persons, and the overall implementation of the activity.

A. INTRODUCTION

One factor supporting economic growth is the effective and efficient use of natural and human resources. The classical theory, developed by Adam Smith, states that humans are the primary factor of production that determines a nation's prosperity. Without skilled human resources capable of managing natural resources, these resources will not provide optimal benefits. Therefore, economic development depends heavily on the quality and active role of humans as workers, actors in development, and consumers of development outcomes. (Budiasih, 2024).

However, Indonesia still faces significant challenges in the employment sector. Its large population leads to a continued increase in the workforce and job seekers, resulting in high unemployment rates and declining incomes. To address this, the government and various institutions are now introducing integrated training programs that go beyond conventional approaches. One such initiative is a comprehensive package that combines LinkedIn profile building, GitHub project showcasing, and portfolio website optimization—designed to equip

individuals with the digital presence and professional branding needed to stand out in today's competitive job market. (Budiasih, 2024)

Based on the February 2025 National Labor Force Survey (Sakernas) data, the workforce reached 153.05 million people, an increase of 3.67 million people compared to the previous year. The Labor Force Participation Rate (TPAK) also increased to 70.60 percent. Of the total workforce, 145.77 million people were employed, while 7.28 million remained unemployed. However, formal employment actually experienced a slight decline. This demonstrates that the challenge of development lies not only in job creation, but also in improving the quality and sustainability of jobs, including equal employment opportunities between men and women.. (Statistik, 2025)

To address these challenges, students and prospective graduates, as part of the new workforce, need to equip themselves with the skills and readiness to face the professional world. One important strategy is building a digital portfolio, a collection of work, experience, and achievements displayed online. A digital portfolio provides tangible evidence of one's competencies, enhancing personal branding, attracting recruiters, and distinguishing oneself from other applicants. One way to build a digital portfolio is through a personal website, easily accessible anytime via the internet.. (Rachman, 2023)

Creating a digital portfolio website requires a basic understanding of web page structure and appearance. HyperText Markup Language (HTML) is the basic language for building website page structures, such as text, images, links, and paragraphs. Once the structure is established, Cascading Style Sheets (CSS) are needed to enhance the website's appearance, including color, fonts, and layout. These two technologies are essential foundations for creating a clean and professional portfolio website. By mastering HTML and CSS, students can create their own digital portfolios that can be published on platforms like GitHub, while also demonstrating technical competency relevant to current industry needs. (Muhammad Sholikhan, HTML, CSS, dan JAVASCRIPT, 2022)

In addition to a personal website, a digital portfolio can be strengthened by utilizing the professional platform LinkedIn, an internet-based social network focused on the world of work and business. This platform facilitates users to build professional networks, share experiences, showcase skills, and search for and apply for jobs directly. (Putra, 2021) In Indonesia, LinkedIn users have continued to grow significantly year after year. In 2003, there were over 23 million users, making Indonesia the seventh-largest country in the world for LinkedIn users. The majority of users are among the productive age group, particularly students and recent graduates, who use LinkedIn as a vital tool for building their professional identity.(Hernanda, 2025)

LinkedIn's uniqueness lies in its ability to connect individuals with companies, recruiters, and professional communications all on one platform. This makes LinkedIn an effective recruitment tool, as it allows users to demonstrate competency through shared content, showcased accomplishments, and recommendations from colleagues or superiors. (Putra, 2021) Activity on LinkedIn not only strengthens self-image but also serves as a tangible, measurable form of personal branding. In the increasingly digital workplace, a structured and active LinkedIn profile complements a personal portfolio website built using HTML and CSS. The two complement each other in creating a professional, credible, and attractive digital representation for the industry. (Muhammad Sholikhan, HTML, CSS, dan JAVASCRIPT, 2022)

In addition to personal websites and LinkedIn, GitHub is also a crucial platform for building a digital portfolio, especially for students majoring in technology and software engineering. GitHub is a cloud-based hosting service used to store and manage program code using the Git version control system. Through GitHub, students can document the projects they have worked on, both individually and in teams. (Sari, 2021) This allows potential employers or recruiters to directly observe technical skills, code structure, and consistency in software development. The use of GitHub also reflects students' understanding of professional work practices in the technology industry, such as team collaboration, project management, and the use of modern tools. Thus, the presence of GitHub as part of a digital portfolio provides significant added value in displaying technical competencies in a tangible and transparent manner. (Herlambang, 2023).

B. METHODS

To realize the planned community service activities, the author and team designed systematic implementation stages to ensure the achievement of the activity's objectives. The activities were implemented through two main forms: education through webinars and technical training through workshops.

1. Activity Dissemination and Preparation of Event Requirement Documents
   The author and his team disseminated information through various social media platforms. Webinar and Workshop activities were promoted via digital posters and a registration link shared on Instagram, LinkedIn, and WhatsApp groups.
2. Pre-test
   Participants were given a pre-test by our team through Google Forms to assess their initial knowledge of digital portfolios, LinkedIn, and GitHub. The results will later be compared with the post-test given after the activity. The material presented at this event was in the form of PowerPoint presentations. A post-test and feedback form at the end of the event were also provided to measure the effectiveness of the program.
3. Learning Material Through Webinar
   This session covers topics such as the definition of LinkedIn and GitHub, the importance of digital portfolios, LinkedIn profile optimization, and strategies for beginners on GitHub. The material will begin with an understanding of LinkedIn and GitHub and the differences between the two. This webinar aims to provide a comprehensive understanding and practical steps for building a professional portfolio.
4. Implementation Through Workshop
   Led by Muhammad Efendi Vivria, this workshop offers hands-on training to help participants build web-based portfolios using HTML, CSS, and GitHub Pages. Participants prepare the necessary tools, such as text editors and GitHub accounts. This workshop aims to equip participants with practical skills in building web-based digital portfolios.
5. Post-test and Feedback
   After the webinar and workshop sessions are complete, participants are required to complete a post-test that will be submitted to our team via Google Forms to evaluate their understanding of the material presented, particularly regarding LinkedIn profile optimization and GitHub repository management. The results of the post-test will be compared with the pre-test to see how well participants understood the material presented during the event.
   Additionally, a feedback form is distributed to gather participants' responses regarding the presentation of the material, the speaker's performance, and their satisfaction with the

program. This feedback serves as valuable reference for measuring the impact of the activity and identifying areas for improvement in the future.

C. RESULTS AND DISCUSSION

This activity was carried out by students of the Informatics Engineering study program at the University of Muhammadiyah Jakarta through the Zoom Meeting platform, attended by 38 participants from various institutions, mostly Informatics Engineering students. The event was conducted interactively with material delivery and QnA sessions that allowed participants to engage directly with the presenters. The purpose was to strengthen participants' theoretical and practical understanding, particularly in designing and publishing personal portfolio websites, with a focus on mastering front-end development and utilizing GitHub as a professional portfolio platform. Compared to similar digital literacy workshops at other campuses, which have been proven to enhance not only technical skills but also collaborative and self-directed learning, this activity likewise showed effectiveness in equipping participants with applicable knowledge and fostering digital professionalism.

When compared to similar studies, this approach shows consistency in improving digital literacy among students. For example, research on digital literacy workshops conducted at Yogyakarta State University (Sari et al., 2022) found that interactive learning models combining webinars and face-to-face workshops significantly improved students' ability to utilize online platforms for academic and professional purposes. Similarly, a study at Brawijaya University (Putra & Handayani, 2023) highlights that technical training in website development and digital tools not only improves students' digital skills but also boosts their confidence in showcasing their academic achievements online. These findings are consistent with the results of this activity, which reinforce the idea that the systematic integration of theory (webinars) and practice (workshops) is an effective method for strengthening digital competence and professional readiness among students. The following is a series of events for the Webinar and Workshop activities:

Table 1. Rundown

Waktu	Durasi	Kegiatan	PJ	Nama
07.00 - 09.00	120 Menit	Persiapana Panitia	Panitia	Panitia
09.00 - 09.05	5 Menit	Pembukaan	MC	Bintang
09.05 - 09.10	5 Menit	Tilawah	Elsa	Elsa
09.10 - 09.15	5 Menit	Menyanyikan lagu indonesia raya dan mars muhammadiyah	Operator	Bintang
09.20 - 09.22	2 Menit	Pembacaan CV Pemateri Webinar	MC	Bintang
09.22 - 09.52	30 Menit	Materi Webinar	Pemateri Webinar	Rahmita
09.52 - 10.00	8 Menit	Sesi tanya jawab	MC	Bintang
10.00 - 10.02	2 Menit	Pembacaan CV Pemateri Webinar	MC	Bintang
10.02 - 11.17	75 Menit	Materi Workshop	Pemateri Workshop	Evendi

11.17 - 11.25	8 Menit	Sesi tanya jawab	MC	Bintang
11.25 - 11.27	2 Menit	Foto Bersama	MC	Bintang
11.27 - 11.30	3 Menit	Penutupan	MC	Bintang

1.1. Phase 1 (Activity Socialization and Creating Event Requirements Documents)

In this stage, the author and the team conducted open socialization of the activity through social media to reach participants interested in the topic to be presented, namely managing a digital portfolio through LinkedIn and GitHub, by distributing a visually engaging and informative digital flyer.

Figure 1. Flyer

In addition to the socialization effort, the team also prepared several essential documents to support the technical implementation of the event, all created using Google Forms to facilitate data collection and management. The registration form was developed to collect participants' basic information such as name, institution, email, and interest in the event topic, which also served as the initial requirement to join the activity.

A pre-test was designed to assess the participants' initial understanding of the topic, intended as a baseline for comparison with the post-test results. The post-test was distributed at the end of the event as an evaluation tool to measure how much participants' understanding had improved after attending the webinar and workshop. An attendance and feedback form was shared to record participant presence and gather input on the material delivery, speaker performance, and overall execution of the event, which also served as one of the requirements to obtain a certificate.

1.2. Phase 2 (Pre-Test)

In this stage, the author and team provided a pre-test for participants to complete before the event began. This pre-test consisted of several questions covering digital portfolios, LinkedIn, GitHub, and front-end. The results are shown in the following image.
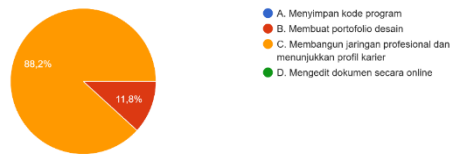
Figure 2. Pre-test question 1

In Figure 2, it can be seen that 88.2% of participants answered the question correctly, indicating a strong initial understanding of the material presented.
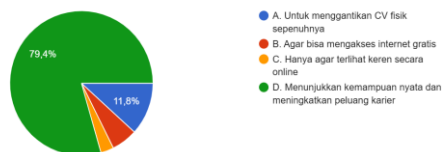

Figure 3. Pre-test question 2

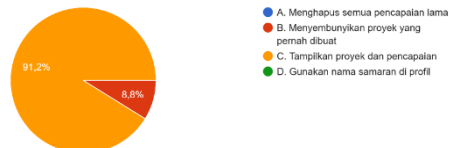In Figure 3 above, it can be seen that the percentage of participants who answered correctly was 78.4% and 34 participants filled it in.

Figure 4. Pre-test question 3

In Figure 4, the percentage of correct responses increased to 91.2%, suggesting that most participants were able to grasp the concept well.
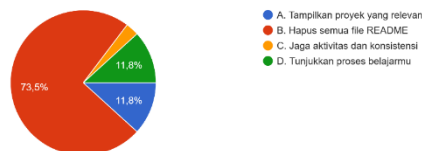
Figure 5. Pre-test question 4

In Figure 5, 73.5% of participants responded correctly, showing a slight dip in understanding compared to the previous figure.
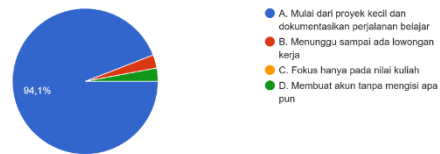
Figure 6. Pre-test question 5

In Figure 6, the percentage rose significantly to 94.1%, indicating excellent participant comprehension of the topic covered in that question.
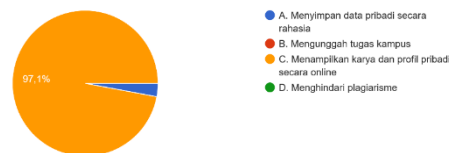
Figure 7. Pre-test question 6

In Figure 7, 97.1% of participants answered correctly, marking the highest accuracy rate among all figures and reflecting exceptional clarity of the material.
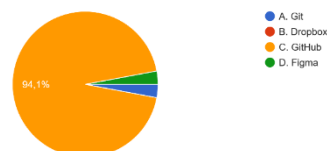
Figure 8. Pre-test question 7

In Figure 8, the percentage remained high at 94.1%, further reinforcing the strong understanding demonstrated by the participants.
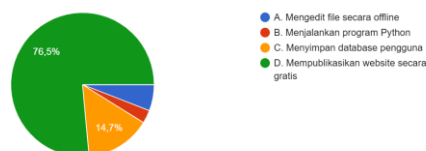
Figure 9. Pre-test question 8

Figure 9 above shows 76.5% of the 34 participants who completed the pre-test received correct answers.
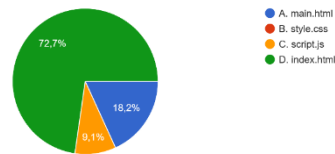
Figure 10. Pre-test question 9

In Figure 10, 72.7% of responses were correct, which, although lower than the average, still represents a decent grasp of the concept.
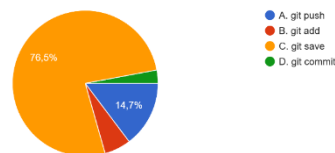

Figure 11. Pre-test question 10

Lastly, in Figure 10, 76.5% of participants answered correctly, showing a moderate level of comprehension and retention of the material presented. Meanwhile, the post-test, which will be administered after the event concludes, has a significant difference in the questions asked. The post-test demonstrates that some participants already understand the material presented during the event, while others still don't.

1.3. Phase 3 (Learning Material Through Webinar)

In this phase, the webinar session was led by speaker Rahmita Zahro, who delivered material prepared in the previous phase. The material was aimed at participants from various backgrounds, with a primary focus on enhancing digital portfolios through the use of LinkedIn and GitHub.

The presentation began with an explanation of the importance of personal branding in the digital age, followed by a guide to building a professional LinkedIn profile, and steps for creating and sharing project repositories through GitHub. Participants were also guided in understanding proper repository structure and how to publish a digital portfolio online using GitHub Pages.

The session's results indicated that participants gained a deeper understanding of strategies for building an effective digital portfolio, as well as basic technical skills in managing and publicly presenting their digital projects through GitHub and LinkedIn as their primary platforms.

Figure 12. Webinar Presentation

In Figure 12 above, the presenter is explaining tips for beginners who don't yet have a project on GitHub. This tutorial is intended for participants who want to start a project but are unsure what to build.

1.4. Phase 4 (Implementation through Workshop)

This stage, led by Muhamad Efendi Vivria, provided a hands-on technical implementation of the material presented in the previous webinar. The main focus of this workshop was the practical application of building and publishing a personal portfolio website relevant to the role of a Front-End Developer. In this session, participants were guided to implement their portfolio designs using HTML, CSS, and JavaScript, then manage the project in a GitHub repository. The presenter also provided technical guidance on project file structure, portfolio content structure, and portfolio publication through GitHub Pages for online access.

Prior to the workshop, participants were encouraged to prepare all necessary tools, such as a text editor (Visual Studio Code), an active GitHub account, and a stable internet connection. During the workshop, the presenter demonstrated the steps, from repository initialization and homepage setup to deployment to GitHub Pages.

The results of this activity demonstrated that participants successfully published their personal portfolio websites and understood how a well-structured repository and project documentation can enhance their professionalism in the world of web development. With this hands-on practice, participants are expected to be able to manage digital portfolios independently and be better prepared to face the increasingly competitive needs of the technology industry.
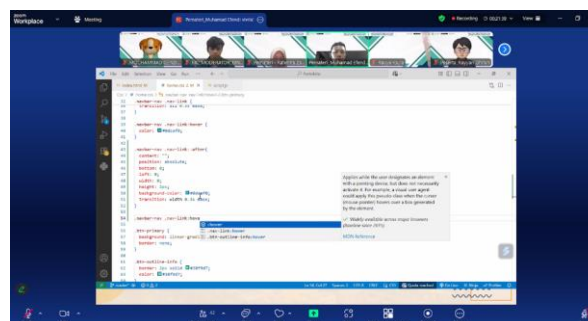

Figure 13. Workshop Presentation

In Figure 13 above, the presenter is demonstrating directly writing CSS code in the Visual Studio Code (VS Code) editor, which is used to organize the navigation display on a web page.

1.5. Phase 5 (Post-test and feedback)

After the webinar and workshop activities were completed, participants were asked to complete a post-test through Google Forms as a final evaluation to measure their understanding of the material that had been presented. The post-test consisted of ten multiple-choice questions covering key topics such as creating a digital portfolio, managing a LinkedIn profile, and publishing projects on GitHub. The post-test results indicated a significant improvement in participants' understanding, with the percentage of correct answers as follows:
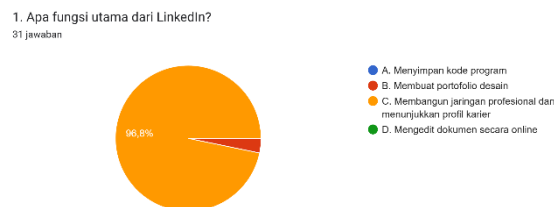
Figure 14. Post-test question 1

In Figure 14, it can be seen that 96.8% of participants answered the first post-test question correctly, indicating excellent understanding following the session.

Figure 15. Post-test question 2

In Figure 15, 93.5% of participants provided correct responses, reflecting consistently strong comprehension.
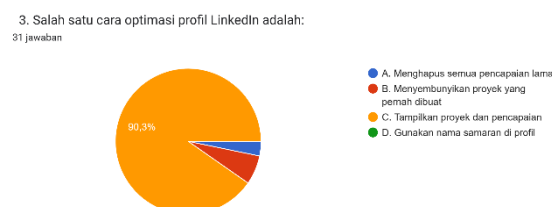

Figure 16. Post-test question 3

In Figure 16, 90.3% of participants answered accurately, showing continued retention of the core concepts.

Figure 17. Post-test question 4

In Figure 17, 80.6% of participants responded correctly, slightly lower but still a good indicator of learning effectiveness.

Figure 18. Post-test question 5

In Figure 18, correct responses rose again to 93.5%, suggesting that participants grasped this topic well.
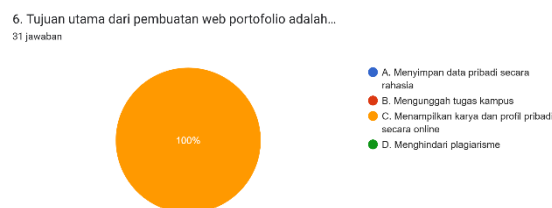

Figure 19. Post-test question 6

In Figure 19, 100% of participants answered correctly, demonstrating full comprehension of the material.

Figure 20. Post-test question 7

In Figure 20, the perfect score continued with another 100%, reinforcing the success of the instructional delivery.
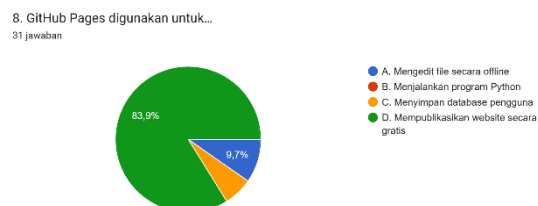

Figure 21. Post-test question 8

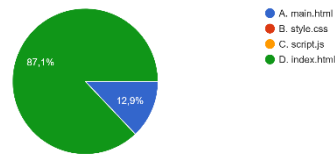In Figure 21, 83.9% of participants gave the correct answer, showing solid understanding.

Figure 22. Post-test question 9

In Figure 22, 87.1% of responses were accurate, indicating sustained engagement and learning.
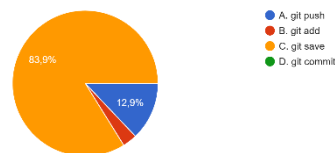

Figure 23. Post-test question 10

Lastly, in Figure 23, 83.9% of participants answered the question correctly, reflecting consistent comprehension across topics.

In Figure 24, the feedback results are shown. Based on participant responses, 47.9% indicated that they were satisfied with the event, while 48.1% stated they were very satisfied. These findings reflect a strong overall positive perception of the webinar and workshop, particularly regarding the relevance of the material, the quality of presentation, and the organization of the event.
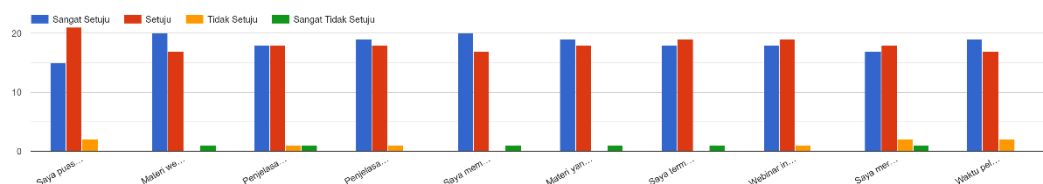

Figure 24. Feedback result

D. CONCLUSION

This community service activity was designed in response to students' needs to increase their competitiveness through digital portfolio development. From thorough planning and identifying partner issues, to implementing webinar-based training and practical workshops, this activity successfully addressed the digital literacy challenges among students.

Overall, the activity ran smoothly and successfully achieved its intended targets. Participants demonstrated increased understanding, skills, and awareness of the importance of building a personal brand in the digital age. This activity is expected to serve as a starting point for students to continue developing themselves professionally and prepare them to compete in both the workplace and academic world.

E.ACKNOWLEDGEMENTS

F.AUTHOR CONTRIBUTIONS

Activity Implementation: Bintang Al Fizar, Elsa Ananda Hanifah Fakhul Jannah, Material Delivery: Rahmita Zahro, Workshop Execution: Muhammad Efendi Vivria, Document Preparation: Bintang Al Fizar, Elsa Ananda Hanifah Fakhul Jannah, Muhammad Efendi Vivria, Rahmita Zahro, Mirza Sutrisno, Manuscript Writing & Revision: Nurvelly Rosanti, Yana Adharani, Rully Mujiastuti, Mirza Sutrisno.

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