

## A Developing A Website For Reporting Internship Participants' Activities At The Medan City Communication And Information Service

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Article Info	ABSTRACT
<b>Keywords:</b> Website Development, Internship Reporting, Digital Transformation.	The rapid advancement of digital technology has driven government institutions to adopt efficient and transparent reporting systems. This study focuses on the development of a website for reporting internship participants' activities at the Medan City Communication and Information Service. The objective is to create a digital platform that facilitates real-time activity reporting, improves data accuracy, and enhances communication between interns and supervisors. The website is developed using a structured system development life cycle (SDLC) approach, incorporating user-friendly features such as activity logs, progress tracking, and automated report generation. The findings indicate that the implementation of this website significantly streamlines the reporting process, reduces administrative workload, and ensures better monitoring of internship activities. This research concludes that a web-based reporting system provides an effective solution for managing internship programs, improving efficiency, and supporting digital transformation in government institutions. The study offers insights for further advancements in digital reporting systems to enhance operational effectiveness in public sector organizations.
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### INTRODUCTION

The MBKM (Merdeka Belajar – Kampus Merdeka) internship program is an internship program organized by the Ministry of Education, Culture, Research, and Technology. The MBKM program is expected to be able to answer the challenges of Higher Education to produce graduates who are in line with the development of the times, the progress of science and technology, the demands of the business world and the industrial world, and the dynamics of society.

Through this program, students can apply the knowledge and skills they learn in lectures in real situations in the workplace. Internships are one effective way to connect the world of education with the world of work. The Medan City Communication and Information Service (Diskominfo) is an agency engaged in the field of communication and informatics which includes telecommunications, communication facilities and information dissemination, telematics, and electronic data processing. Diskominfo also has the function of coordinating and fostering Regional Apparatus Operations (OPD) and carrying out other tasks from the Regional Head according to their main duties and functions.

Internship students often have to compile internship reports in physical form, such as written documents, which must then be submitted directly to the Medan City Communication and Information Service. This process can be inefficient, complicated, and time-consuming, especially if the interns are spread across different locations or if there are many interns reporting their activities.

The creation of a website for reporting internship activities by providing a digital platform is expected to make it easier for interns to report their activities and internship results to the Medan City Communication and Information Service (Diskominfo). The rapid advancement of digital technology has driven government institutions to adopt modern and efficient systems for managing administrative processes. One of the key challenges faced by public sector organizations, including the Medan City Communication and Information Service, is the effective monitoring and reporting of internship activities. Traditional reporting methods, such as paper-based documentation and manual data collection, often lead to inefficiencies, delays, and inaccuracies in tracking interns' progress.

To address these challenges, this study focuses on the development of a web-based reporting system designed to facilitate real-time activity tracking, improve data accuracy, and enhance communication between internship participants and their supervisors. By integrating digital reporting tools, the proposed system aims to streamline the internship management process, ensuring transparency and accountability while reducing administrative workload.

This research highlights the importance of adopting technology-driven solutions in government institutions to improve operational efficiency. The implementation of a web-based internship reporting system is expected to provide a structured and user-friendly platform for both interns and administrators, ultimately contributing to the digital transformation of public sector services in Medan City.

With the creation of the Internship Reporting Website, it is hoped that the internship reporting process will be more efficient, transparent, and easy to track. The creation of this website can also provide additional benefits, such as monitoring the progress of interns, documenting internship results, and integrating with other systems related to the internship program.

## **Literature Review**

### **Solutions and Problems of Partners**

The ease of reporting internship activities at the Medan City Communication and Information Service is through the existence of a website for reporting internship activities by adding a digital platform that makes it easier for interns to report their activities and internship results to the Medan City Communication and Information Service. The creation of a website for reporting internship activities at the Medan City Communication and Information Service is carried out in several stages including designing wireframes, Lo-Fi, MockUp, Hi-Fi, Source Code, Deployment, and Monitoring and Observability.

The creation of this website for reporting internship activities is designed to provide convenience in the process of reporting internship activities and results for students. The creation of this website also aims to increase efficiency in the process of reporting

internship students, so that students can upload their reports online and save time in compiling physical reports and sending them directly to the Medan City Communication and Information Service.

The implementation of community service at the Medan City Communication and Information Service with the theme "Creating a Website for Reporting Internship Activities at the Medan City Communication and Information Service" is expected to make it easier for the Medan City Communication and Information Service to document reporting internship activities.

### **Types of Outputs**

The community service carried out at the Medan City Communication and Information Service has been carried out through research, so that the outputs produced by the community service at the Medan City Communication and Information Service are as follows:

1. Website for reporting student internship activities and results.
2. Facilitate the Medan City Communication and Information Service in documenting internship participant activity reporting.

The adoption of digital technologies in government institutions has significantly improved operational efficiency, transparency, and service delivery (Janssen & van den Hoven, 2015). Digital transformation involves integrating technology to optimize processes, including administrative tasks such as internship management. A web-based reporting system ensures real-time monitoring, reduces paperwork, and enhances communication between stakeholders (Almeida & Silva, 2020).

Previous research has demonstrated the effectiveness of digital reporting systems in various sectors. A study by Wang & Li (2020) on student internship tracking systems found that digital platforms significantly improved monitoring efficiency and reduced administrative burdens. Similarly, a case study by Rodriguez & Martinez (2019) on online employee performance tracking highlighted the role of web-based solutions in enhancing feedback mechanisms and engagement.

### **Output Target Plan**

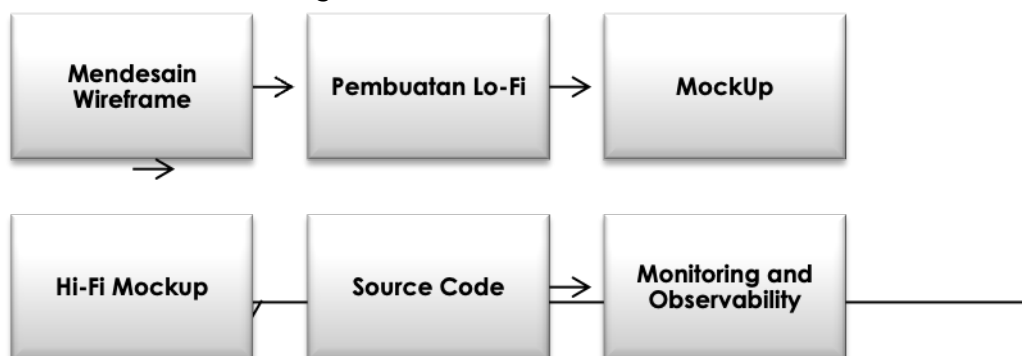
The output plan and target to be achieved in the implementation of community service carried out at the Medan City Communication and Information Service is to facilitate the Medan City Communication and Information Service in documenting internship participant reporting. Internship programs play a crucial role in bridging the gap between academic learning and professional experience (Collins, 2021). Effective internship management requires systematic reporting mechanisms to track participants' activities and progress. Traditional reporting methods, such as paper-based logs and manual evaluations, often lead to inefficiencies (García-Peñalvo et al., 2018). A digital reporting system can enhance data accuracy, streamline documentation, and facilitate feedback from supervisors (Smith & Brown, 2019). Implementing a web-based reporting system for internship programs offers several advantages:

- a. Efficiency: Reduces manual workload and streamlines the reporting process (Rahman & Abdul, 2020).

- b. Accuracy: Minimizes errors associated with manual data entry and ensures reliable record-keeping (Kumar et al., 2019).
- c. Accessibility: Enables real-time access to reports and data from any location (Fernández et al., 2018).
- d. Transparency: Enhances accountability by maintaining a structured and traceable reporting mechanism (Johnson et al., 2021).

## METHOD

The implementation of the community service of making the Internship Participant Activity Reporting Website at the Medan City Communication and Information Service uses an approach method by conducting direct observations and interviews with the Medan City Communication and Information Service. Method of implementing the creation of the WebsiteReporting of Internship Participant Activities at the Medan City Communication and Informatics Service can be seen in figure 1.



**Figure 1.** Method of Implementing Community Service Activities

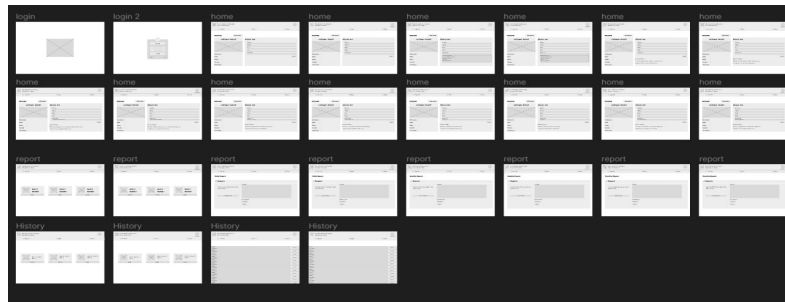
Based on the image above, there are several methods for implementing the creation of a Website for Reporting Internship Activities at the Medan City Communication and Information Service in this community service, as follows:

### Designing Wireframes

In making wireframes, it is usually done before making the product. Wireframe is a framework for arranging an item on a website or application page. Related items such as text, images, layout, and so on.

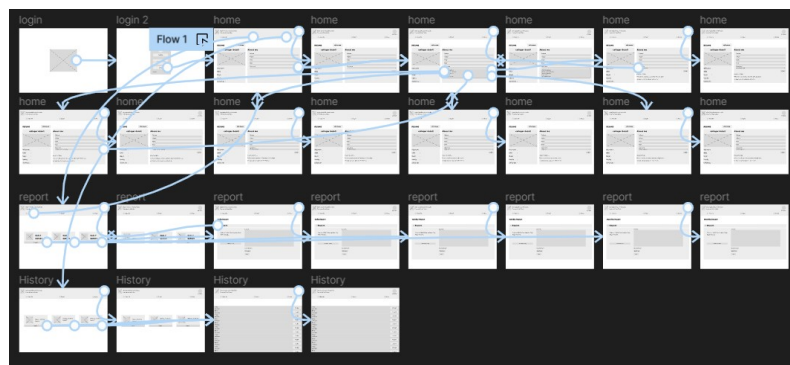
**Table 1.** Component Arragin

No	Description	Unit	Qty	Unit Price (Rp)	Total Price (Rp)
2	Consumption (Cake)	Box	31	10,000,-	310,000,-
3	Purchase of consumables for purchasing stationery, photocopying, correspondence, report preparation	Set 1	1	100,000,-	42500,-
<b>Total cost</b>					<b>352,500,-</b>



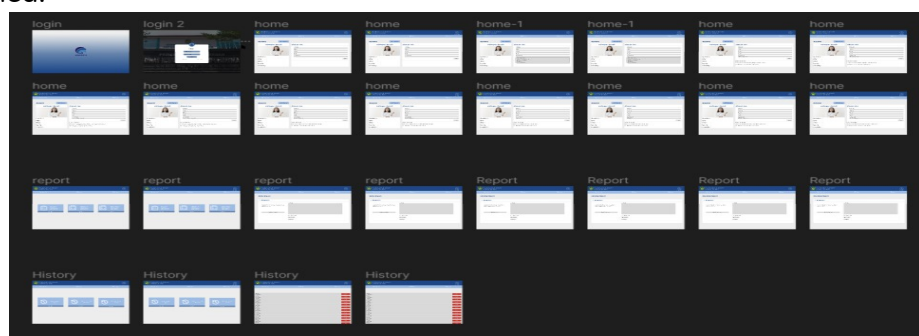
**Figure 2.** Wireframe Design

Making Lo-Fi wireframing is an activity of making a blueprint for a product to be designed. In this activity will explain or summarize what has been done in sketching in the form of digital wireframing.



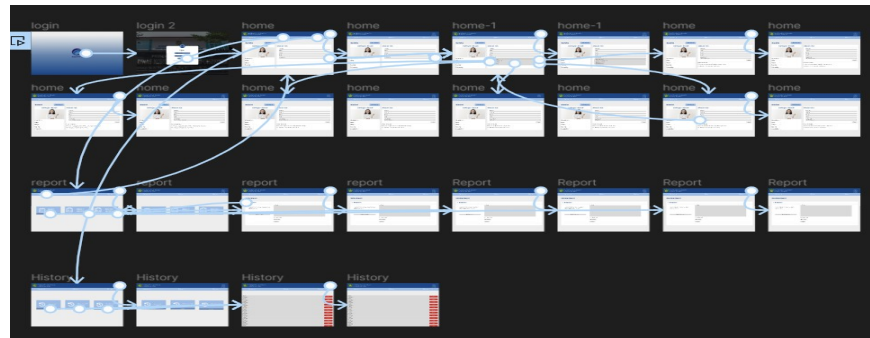
**Figure 3.** Lo-Fi Wireframing Creation

At this stage, the visualization process of a design concept is carried out. The form of this mockup is a mid-fidelity or high-fidelity image that describes the choice of design colors, layout, typography, iconography, visual navigation, and the overall appearance of the product being designed.



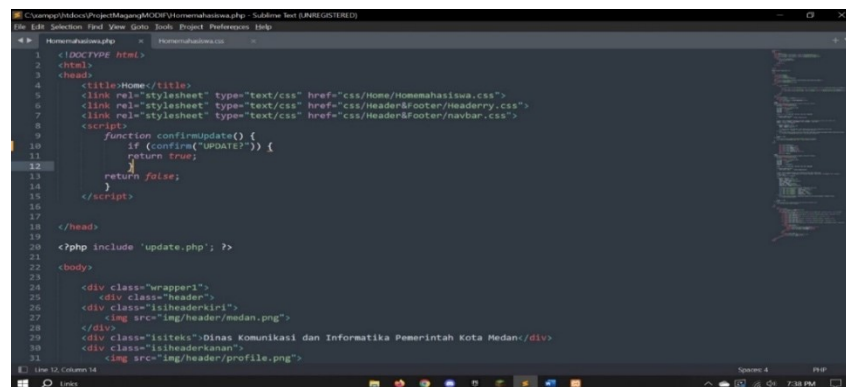
**Figure 4.** MockUp

At this high fidelity mockup stage, the design process is finished from the application that is made. Hi-fi mockup is a detailed version of the lo-fi mockup, details are added to the hi-fi mockup such as colors, icons, etc.



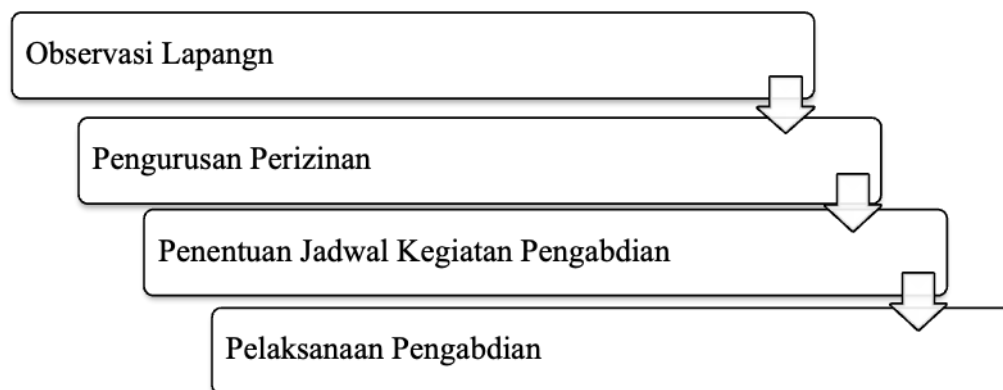
**Figure 5 .High Fidelity Mockup**

At this stage, the coding process has been carried out using several programming languages. The programming languages used in creating the Internship Reporting Website at the Medan City Communication and Information Service are HTML, CSS, PHP and JavaScript.



**Figure 6. Source Code**

At this stage, the process of monitoring the performance and behavior of the application in the production environment has been carried out. In this case, supervision is carried out to identify problems or anomalies that may arise, such as traffic spikes or system disruptions. Work procedures are the steps that will be taken in carrying out devotion at the Medan City Communication and Information Service. The work procedures can be seen in Figure 7.



**Figure 7. Work Procedure**



Based on Figure 7 the author can explain several work procedures that will be carried out in community service at the Medan City Communication and Information Service, as follows:

1. Field Observation

At the field observation stage, the author visited the place where community service would be carried out, namely the Medan City Communication and Information Service.

2. Licensing Management

At this stage, the administration of the service permit is carried out by the activity organizer and the LPPM (Research and Community Service Institute) of Panca Budi Development University, Medan.

3. Determining the Schedule of Community Service Activities

At this stage, the author determines the schedule of community service activities that are adjusted to the time at the Medan City Communication and Information Service.

4. Implementation of Community Service

At this stage, the implementation of community service is carried out, namely the creation of a Website for Reporting Internship Participant Activities at the Medan City Communication and Information Service.

The eligibility of Panca Budi Development University (UNPAB) in carrying out community service with the topic of Implementation of Mobile-Based Letter and Number Introduction to Early Childhood at AL Fatih IT Kindergarten based on:

1. Panca Budi Development University (UNPAB) has The Community Service and Village Development Institute is chaired by Mr. Adian Hakim Nasution, SP with members consisting of all lecturers at the Faculties within the Panca Budi Medan Development University.
2. The vision of Panca Budi Development University (UNPAB) is to become a "Leading Private University based on Religion in Developing IMTEK that is beneficial for the welfare of the community in 2033". The Restra of Panca Budi Development University is "A Center for Human Development that masters knowledge and technology, is creative and innovative, pious, globally competitive and plays a role in improving the welfare of society, natural resources and the environment".
3. LPPM Panca Budi Development University Medan, currently strongly supports the field of Community Service, this is done so that the Tri Dharma of Higher Education in the field of Community Service can be implemented.
4. This activity was proposed by a team of computer science study lecturers, namely the Computer System Faculty of Science and Technology, Panca Budi Development University (UNPAB) Medan. This team consists of 4 (four) lecturers with fields of science according to field needs and attached member data.

## RESULTS

### Community Service Results

Community Partnership Program (PkM) activities are carried out face to face, namely by conducting...Website CreationReporting of Internship Participant Activities at Medan City Communication and Information Office. The Community Partnership Program (PkM) activities went well and smoothly.Website CreationReporting of Internship Participant Activities at Medan City Communication and Information Service made by carrying out several stages including designing wireframes, making Lo-Fi wireframes, drawing Mockups, designing High Fidelity Mockups, creating source codes and conducting monitoring and observability. This activity was carried out for 4 months, starting from June to September.

The implementation of the Community Partnership Program (PkM) activities was carried out by a team of 4 (four) service personnel with topics covering:

1. Designing a flowchart for creating a Website for Reporting Internship Activities at the Medan City Communication and Information Service.
2. Designing the User Interface of the Internship Activity Reporting Website which includes designing wireframes, creating Lo-Fi wireframes, drawing Mockups, designing High Fidelity Mockups, creating source code and conducting monitoring and observability.

Community service activities in the form of creating a Website for Reporting Internship Activities at the Medan City Communication and Information Service are expected to facilitate the Medan City Communication and Information Service in documenting internship reporting. This website is expected to be accessible to students and field supervisors and allow report information to be more open and easily accessible. In addition, the website can also allow the Medan City Communication and Information Service to monitor and evaluate student progress more effectively.

### Discussion

The results of the Community Partnership Program (PkM) activities broadly include the following components:

1. Achievement of activity objectives
2. Achievement of planned website creation targets
3. The application's ability to document internship reporting.

The achievement of the creation of the Internship Reporting Website at the Medan City Communication and Information Service can be concluded that this activity can be achieved well. The achievement of the creation of the internship reporting website at the Medan City Communication and Information Service can be seen from the success of the website in documenting the reporting of all internship participants.

## CONCLUSION

Based on the activity program for Creating a Website for Reporting Internship Activities at the Medan City Communication and Information Service which has been implemented, the following conclusions can be drawn: The internship activity reporting website can make it



easier for interns to quickly upload daily activity reports at the Medan City Communication and Information Service. The internship participant activity reporting website provides access rights to the Medan City Communication and Information Service to monitor and evaluate the progress of internship students. The internship participant activity reporting website can increase efficiency in the process of storing and searching for internship student data at the Medan City Communication and Information Service.

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