

Designing User Interface On Pinpori Application By Applying Prototype Method

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Abstract

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The general objective of this research is to discuss the application of the prototype method in developing a user interface for the PINPORI program. To improve the quality and benefits of the PINPORI application, several suggestions can be implemented. First, improve user interaction by adding a discussion forum feature to share information and experiences, integrate the “question and answer” feature with a chatbot or online help service, and encourage users to provide feedback. Second, enrich content and features by adding an “inspirational story” feature, providing more detailed information about awards, and developing an “achievement map” feature. Third, increase community engagement by organizing contests or competitions, offering prizes or awards, and collaborating with organizations or communities. By implementing these suggestions, the PINPORI app is expected to become a more interactive, informative and useful platform for the community, and strengthen the positive relationship between the police and the community.

Keywords: Prototype Method, User Interface, Pinpori Application.

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INTRODUCTION

The use of technology by companies to create, process and distribute information in any format is known as information technology. (Primawanti & Ali, 2022). Along with developments in the world of information technology, the police also need to adapt to existing changes. The performance of police officers can be improved by using technology, especially in terms of information disclosure and distribution. With the help of digital devices, people can easily access news and information, so the police need to utilize technology to stay connected with the public. This includes incident reporting, policy notifications, and sharing information on various matters, including police contests and awards. Who is exceptional (Holipiah et al., 2024).

In this context, the PINPORI (Penyebaran Informasi dan Polisi Berprestasi) smartphone application is here to fulfill the community's need for clear and accurate information about police activities and to reward outstanding police officers. By using this application, the public can feel safer and get the latest information through information technology. PINPORI is designed to help the community learn about police achievements and competitions, to increase community participation in police activities, and to improve the perception of the police by providing clear and motivating information. The application aims to strengthen cooperation between the community and the police and reduce



information gaps. With its various features, the PINPORI program covers many topics related to police data and activities. The main menus that make up the structure of the app include the homepage, notifications, account, competition, achievements, prizes, registration form, and help menu.

The community faces difficulties due to the lack of information about competitions held by the police. Often information is only conveyed through print media or the official police website, which is not always accessible to all groups of society. This leaves many people unaware of the competition, reducing their opportunities to participate and showcase their skills. The mass media, which does not always reach all segments of society, is often the only channel for information about outstanding police officers. The public finds it difficult to recognize and appreciate the outstanding achievements of police officers. In fact, the public could be more appreciative and supportive of the police's effectiveness in maintaining security and order if they were more aware of their achievements.

When creating the PINPORI app, the prototype approach was an effective and practical method, especially in the early phases of development. It places great emphasis on creating a prototype, or early version, of the app to obtain in-depth feedback from stakeholders and users before the program is fully developed. The prototype can fulfill user needs by acting as a functional and visual representation of the application to be developed.

RESEARCH METHOD

The research method made in this application uses the prototype method. According to (Pressman, 2012), Prototype is a model for developing software that emphasizes making an early version of the system to be worked on. The goal is to identify unmet needs and obtain direct input from users. According to (Fenando, 2020) prototypes provide an opportunity for users to get a good understanding of the application being planned. However, the prototype is the first version of the software that serves to identify the most effective concepts, challenges, and solutions. (Wicaksono et al., 2021).

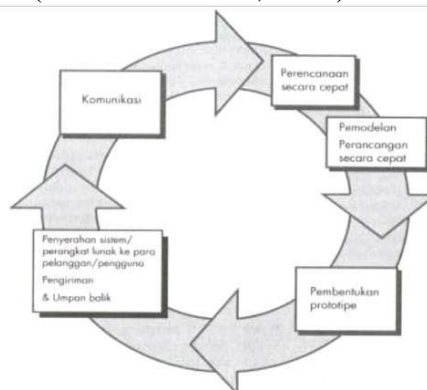


Figure 1. Stages of Prototype Method

1. Interaction
The purpose of this first communication stage is to identify the system and create a working prototype.
2. Immediate Preparation

In order to produce an initial prototype that will serve as an example of PINPORI implementation, an initial plan will be made at this planning stage.

3. Rapid Modeling

We will now present a brief overview of the system structure and flow model generated by the PINPORI application.

4. Prototype Building

The rapid prototyping process can be utilized to present the initial design of the application.

5. System Submission

Each time an iteration is performed, the prototype will continue to be examined and assessed.

RESULTS AND DISCUSSION

A. Design Planning

The PINPORI application is designed as a user-friendly and comprehensive digital platform, aiming to facilitate access to information for the public regarding police competitions and achievements. This application will be integrated with various features that make it easier for users to access information and participate in positive activities organized by the police. The application interface is designed with a simple, intuitive, and easy-to-navigate display so that it can be accessed by all groups of people. With various menus such as the application homepage, competition menu, awards menu, form menu, notification menu, account menu, and help menu. With various integrated features, the PINPORI application is expected to become a bridge between the police and the community, encourage community participation in positive activities, and increase community appreciation of police performance.

B. PINPORI Design

On the initial display of the application there is a PINPORI logo, indicating that the application is being run.



Figure 2. PINPORI logo

In the login feature there is an email and password for users who already have an account, then the user will be directed to the homepage of the user can log in using accounts such as email, Instagram, and Facebook. However, if the user does not have an identified account then the user can click on the bottom

of the application “Register”, for users who forget the password, can click on the word “Forgot Password” and will be directed to the technician who manages the application.

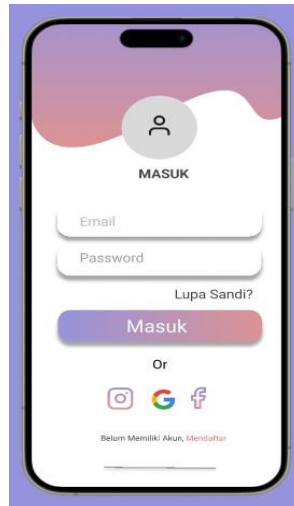


Figure 3. Login

In this feature users are asked to complete the empty fields, for account creation, accounts can be created by anyone such as the public (general), police and military.

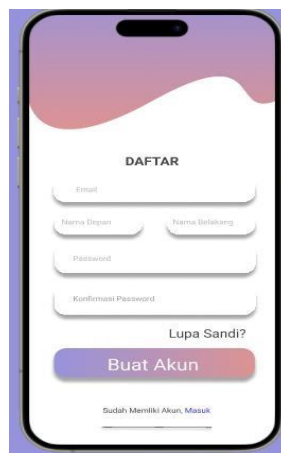


Figure 4. List

Furthermore, in the confirmation feature, users are asked to fill in the OTP that has been sent via email.



Figure 5. Confirmation

In the favorites feature there are several that users must choose to be displayed on the homepage.



Figure 6. Select

If the user has done all the steps, it will appear on the application that says “Congratulations” the user can use the PINPORI application.



Figure 7. Congratulations

The homepage feature will display the latest information on competitions and police achievements, as well as the latest news and announcements from the police.

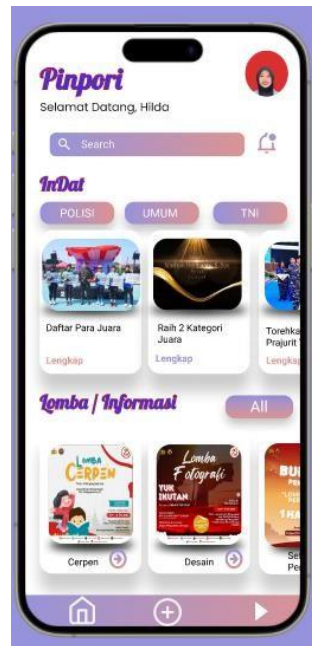


Figure 8. Homepage

Furthermore, the account feature provides information and guidance for users who have difficulty using the application, in the help section users can request police assistance regarding the account.



Figure 9. Account

The data information feature or INDAT can display data related to police competitions and achievements, such as statistics, trends, and analysis.



Figure 10. Data Information

The competition feature will provide complete information about competitions organized by the police, such as themes, requirements, schedules, and how to register.



Figure 11. Competition

The notification feature will provide notifications to users regarding important information, such as race announcements, schedule changes, or other information.



Figure 12. Notifications

CONCLUSION

The design of the PINPORI application shows great potential for increasing public access to information on police competitions and achievements, as well as encouraging public participation in positive activities organized by the police. The application is designed with a user-friendly interface and equipped with various features that make it easier for users to access information and interact with the platform. Features such as the main page, competition menu,

achievement menu, award menu, registration form menu, notification menu, account menu, and help menu provide easy and complete access for users. In addition, the data information feature, which displays statistics, trends, and analysis related to police competitions and achievements, can add value to users by providing more in-depth and useful information. Thus, the PINPORI application is expected to be an effective platform in improving transparency and accountability of police performance, as well as strengthening the positive relationship between the police and the community. Using the prototype method is expected to improve effective and targeted decisions.

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