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INFORMATION SYSTEM FOR REPORTING, PREVENTION, AND HANDLING OF SEXUAL VIOLENCE AMONG STUDENTS

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Abstract: The PPKS task force at Universitas Amikom Purwokerto has been established and is actively implementing various programs. However, complaints regarding cases of sexual violence are currently managed through WhatsApp, with limited guidance on the complaint procedures. As a result, many students are unaware of the PPKS task force or how to report incidents, creating obstacles for both the task force in identifying cases and for students seeking to file complaints. This study aims to provide students with an effective and accessible way to report incidents of sexual violence on campus. To develop the complaint information system, the Scrum methodology was used, involving team collaboration to easily adapt to changes throughout the development process. The resulting complaint information system for the prevention and handling of sexual violence has been successfully implemented and tested with students at Universitas Amikom Purwokerto. This system enables students to submit complaints seamlessly online. Testing results indicate that the system functions as intended and meets the expected outcomes.

Keywords: information system; PPKS; complaint; student; scrum

Abstrak: Satuan tugas PPKS Universitas Amikom Purwokerto sudah berjalan dan membuat program kerja, namun dalam proses pengaduan kasus kekerasaan seksual saat ini hanya menggunakan whatsapp dan kurangnya penjelasan tentang prosedur pengaduan yang ada. Banyak mahasiswa yang belum mengetahui adanya satgas PPKS di kampus dan cara pengaduan kasus. Hal tersebut menjadi kendala bagi satuan tugas PPKS dalam mengetahui kasus yang ada dan mahasiswa saat ingin melakukan pengaduan kasus. Oleh karena itu, dibutuhkan sebuah sarana yang efektif dan mudah diakses bagi mahasiswa untuk melakukan pengaduan kasus apabila mahasiswa mengetahui tentang adanya kekerasaan seksual di lingkungan kampus. Tujuan Penelitian adalah untuk membantu memudahkan mahasiswa dalam melakukan aduan tentang adanya kasus kekerasaan seksual di lingkungan Universitas Amikom Purwokerto. Metode dalam pengembangan sistem adalah metode Scrum. Metode Scrum melibatkan keseluruhan tim yang ada di organisasi. Dengan adanya keterlibatan ini maka mudah dalam mengantisipasi perubahan yang terjadi selama pengembangan sistem. Sistem informasi pengaduan pencegahan dan penanganan tindak kekerasan seksual berhasil di terapkan dan diujikan kepada Mahasiswa Universitas Amikom Purwokerto. Dengan adanya sistem informasi pengaduan ini mahasiswa dapat dengan mudah dalam membuat aduan berbasis sistem. berdasarkan daftar uji yang dilakukan terhadap sistem yang dibuat maka dapat disimpulkan bahwa skenario yang diujikan sesuai dengan hasil yang diharapan.

Kata kunci: sistem informasi; PPKS; pengaduan; mahasiswa; scrum



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PENDAHULUAN

Sexual violence cases are undeniably occurring within educational institutions[1], with the highest incidence at the university level or on campuses[2]. Sexual violence encompasses behaviors or actions involving sexual activities, coercive practices, or attempts to engage in sexual activities, such as commenting or making unwelcome remarks[3][4]. In response, the Ministry of Education, Culture, Research, and Technology issued Regulation Number 30 of 2021, mandating the formation of Anti-Sexual Violence Task Forces (Satgas PPKS) to address and prevent sexual violence on campuses[5]. These task forces serve as the front line in creating a campus environment free from sexual violence[6].

The establishment of the PPKS Task Force has also been carried out by Universitas Amikom Purwokerto, and it was officially confirmed through a Rector's Decree. The task force has been active and has developed work programs, but the current system for reporting sexuviolence cases relies solely on WhatsApp, and there is a lack of clear guidance on the reporting procedures. Many students are still unaware of the existence of the PPKS task force or how to report cases. This creates challenges for the task force in identifying cases and for students when they wish to make a report. Therefore, an effective and easily accessible platform is needed for students to report cases when they become aware of sexual violence on campus. Utilizing technological advancements in mation systems would provide an effective means for reporting cases[7]. The information systems accessed are webbased and connected to systems owned by the students. So far, students have used the information system for their activities, namely student.amikompurwokerto.ac.id where the scrum method is used in the development of the system.

The Scrum method is an iterative phase with the aim of developing innovative applications or services[8][9]. This method provides a framework for the Scrum methodology to flexibly control, develop, and manage software requirements[10]. The Scrum method involves the entire team of the organization [11]. This incorporation makes it easy to anticipate changes that occur during system development [12]. It also takes less time than other methods [13]. The Scrum model is also a flexible model that can be applied to any industry or project [14]. The aim of this research is to help students to file complaints about cases of sexual violence in the environment of Universitas Amikom Purwokerto.

A similar study was also conducted by [15] titled Sexual Violence Complaint Service System at Surabaya State University Based on Telegram Bot with Webhook Communication. The disadvantages of this system are that not all students have Telegram and the services are limited because it is bot-based. Another similar study was conducted by [16] titled Internet-Based Legal Complaint and Education Information System on Child and Women Abuse. This system is more focused on legal aid and is based on the waterfall method in the system development process. Research has also been conducted by [17] entitled HiCare: Mobile Based Sexual Violence Complaint Application. The disadvantage of this application is that students have to download and install the application, so not all students want to do this. Another study by [18] entitled Information Sys-Handling Violence Against tem for Women and Children Based on Website. The disadvantage of this system is that Vol. XI No 2, Maret 2025, hlm. 192 – 199

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users must first create an account before they can use it. Research by [19] titled Designing Mobile Application "ProtectU" for Sexual Reporting in Andriod Studio Based University Environment. The disadvantage of this application is that students have to download and install the application, which not all students want to do.

METHOD

The methods of data collection in this study are interview method, documentation method and literature review. The interview is a popular method of gathering information in which specific information is elicited through questions and answers [20]. The interviews were conducted with the Prevention and Response to Sexual Violence Task Force (PPKS) team on campus. Literature review is a method of collecting data by studying and understanding theory from various references related to the research being conducted [21]. Documentation method is a method required in the creation of applications such as Standard Operating Procedures (SOP), documents about business processes already in progress, and other regulations [13]. The research phases are shown in Figure 1.

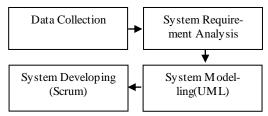


Figure 1. Research Stages

Figure 1 is the research phase with the following explanation.

1. Data Collection

interviews, documentation, and literature reviews

- 2. System Requirement Analysis

 On the basis of the data collected, the next step is the analysis of the system's requirements.
- 3. System Modelling (UML)
 In this phase, the system is modeled using the Unified Modeling Language (UML) with the help of use case diagrams. The use case diagram is shown in Figure 2.

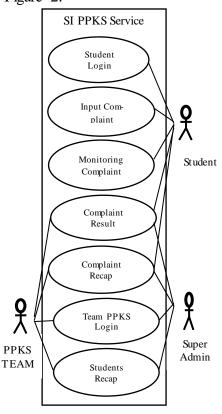


Figure 2. Use Case Diagram

The first step of the research is data collection, which is done through. Figure 2 is this area services information system has 3 categories of stakeholders or users, namely students, the PPKS team and the super admin. Students is system users who can report complaints of sexual violence, either as victims or witnesses. PPKS Team is users of the system

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who are responsible for the administration of the PPKS information system. Super admin is responsible for the exist-

ing system, can enter Admin data and

student data.

System Development (Scrum Model)

The method used in system development is the Scrum method. This method has the advantages of being flexible, easy to control, and thorough in the development process. Product backlog is the definition of the priorities that will be the focus of the sprint. Sprint planning meeting is assignment of tasks to the team in place before the start of the sprint. Daily stand up meeting is performed during the sprint to evaluate the work of the assigned team. Sprint review

is each team member explains the tasks that were completed during the sprint period. Sprint retrospective is each member evaluates his or her performance using the Scrum method [12].

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RESULT AND DISCUSSION

System requirements analysis includes functional, an explanation of functional as follows. Functional requirements contain services that must be provided by the software. functional requirements depend on the user of the system, the type of software used, and the type of system used. functional requirements can be seen in Table 1.

Table 1. Functional Requirement

Functional Re-	Description	Priority		
quirement				
User (Student)	Students report complaints	Must have		
Admin	PPKS team that manages the system	Must have		
Super Admin	IT department that develops the system	Must have		
Report Complaint	Students can input reports of sexual harass-	Required		
ment incidents				
Submit Sugges-	Students can submit suggestions related to	Required		
tions	complaints			
View Discussion	Students can view discussions related to their	Required		
	report			
Discussion Re-	Students can ask questions related to their re-	Required		
sponse	ports			
Discussion Out-	Students can view the outcome of their re-	Required		
come	ports			
Complaint Data	PPKS team can generate a summary of com-	Required		
Summary	plaints			
Data Management	IT department can manage the data	Required		

Table 1 describes the functional requirements with their descriptions and prioritization.

1. Product backlog

The product backlog stage has four features in creating a sexual violence complaint information system. The product backlog results can be seen in the table

3.

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Table 2. Product Backlog

Feature Description	Priority	Estimated Time (hours)
Feature related to system analysis and database design.	Very High Priority	72
Feature related to student complaints with sections for witnesses, victims, and complaint outcomes.	Very High Priority	72
Feature related to PPKS team management, including complaint summaries, outcomes, and data verification.	Very High Priority	96
Feature related to the super admin, including complaint summaries and outcomes.	Very High Priority	120

2. Sprint Planning Meeting

This phase is an elaboration of the product backlog, which consists of 3 existing sprints and must be considered according to the features in the product backlog. The product backlog created in Sprint 1 focuses on data collection, analysis of functional requirements, and creation of database designs. Sprint 2 focuses on the student complaint feature from the victim's and witnesses. Sprint 3 includes functions for managing the PPKS team.

3. Daily Stand Up Meeting

The IT team monitors the complaint information system to ensure that it runs smoothly, and the PPKS team monitors incoming complaints and handles existing complaints. It is ensured that the results of the complaints can be followed up and that the students receive the results according to the existing handling procedures.

4. Sprint Review

This section describes the part of the students and the PPKS team related to the users of the designed system. The stages of the system users are as follows. Students login in system, students log in to the system by entering

the NPM and password provided by Universitas Amikom Purwokerto.



Figure 3. Dasboard Menu

After the student has successfully logged in, the screen as shown above will appear. Next choice complaint menu.



Figure 4. PKKS Complaint menu

Figure 7 is the display after students select the PPKS menu, then students select the "Witness" or "Victim" section. In addition, the PPKS team can manage complaints through the "PPKS Team"

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Figure 5. PPKS Menu

Figure 5 shows the PPKS report, where the administrator only needs to select the academic year to see the sexual violence student complaint report.

1. Sprint Retrospective

Once the system is complete, the next step is to test the system, which is done twice. The first test was done by the PPKS team and students on the backend of the system. The test results are shown in Table 3.

Table 3. Testing List				
Test List	Test Scenario	Expected Result	Test Result	
PPKS System	Click the login		Student success-	
Login Test		student	fully logged in	
PPKS Menu But-	Click the PPKS	Should display	PPKS menu suc-	
ton Test	menu button	the PPKS menu	cessfully	
"Witness" Button	Click the "Wit-	Should display	Witness form	
Test	ness" button	the witness form	successfully	
"Victim" Button	Click the "Vic-	Should display	Victim form suc-	
Test	tim" button	the victim form	cessfully	
Save Complaint	Click the save	Should save the	Complaint suc-	
Button Test		complaint	cessfully saved	
Suggestion Status	Click the sugges-	Should display	Suggestion status	
Test	tion status button	the status of the	visible	
-		suggestion		
	Click the sugges-	Should display		
come Test	tion outcome but-	the outcome of	come visible	
	ton	the suggestion		
System Login	Click the admin	Should log in as		
Test (PPKS	login button	PPKS team	fully logged in	
Team)	(PPKS team)			
PPKS Report			PPKS report	
Button Test	report button	the PPKS report		
		menu	on dashboard	
Academic Year	Click the select	Should display		
Selection Test		•		
Print, Copy, PDF,	<u> </u>	Should allow	•	
and Excel Button	copy, PDF, and	downloading of	download and	
Test	Excel buttons	complaints	print complaint	
Search Button	Click the search	Should search		
Test	button	and display com-	•	
		plaints by student	played	
		name		

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CONCLUSION

The complaint information system for the prevention and handling of sexual violence has been successfully implemented and tested among students at Universitas Amikom Purwokerto. With this complaint information system, students can easily submit system-based complaints. From the list of tests conducted with the created system, it can be concluded that the tested scenario is in line with the expected results. Suggestions for further research include the development of a complaint system that allows students to communicate directly via live video, making it easier for the PPKS team to receive information about reported complaints. Complaints in the form of video calls in the system will be clearer and make it easier for the PPKS team to make decisions.

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