



Analysis and Design of Information System for Social Services Administrative of “Semut Adventure” Natural Lover Community in Kembangan Utara Country State with Web Based Method

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Abstract— The rapid development of information technology has entered a new era faster than ever imagined ^[1] as well as in the social sphere. The community of nature activists “Semut Adventure” requires information system administration of social service activities conducted in Kembangan Utara Country State. The problems faced today are difficult to find social activities and managing donations. Then we try to do analysis and design for a social service administration system to help the community of “Semut Adventure” to support the performance of the community board of nature activist Ant Adventure in the process of activities undertaken, so that can be seen the process of each activity carried out

Keywords— Social Activity, Information Technology, Application, Semut Adventure Community

I. INTRODUCTION

In the current era of globalization, The development of technology can grow rapidly due to the progress of culture and civilization levels in humans^[2]. The number of emerging free web hosting where we no longer need to buy the domain, because usually the domain name is provided in subdomain or directory, feels this. Administration is co-ordinating and directing human and material resources to achieve desired goals. Meanwhile, according to William H. Newman in his book administration action says that the administration is the direction, leadership and control of the business group of people in the framework of achieving a common goal or principal^[3].

Caring for others is one of the basic norms of civilized human being^[4]. Mutual assistance is part of the human norm in Indonesia itself that has been set in Pancasila as the philosophy of life of the Indonesian nation. With the application we made, we expected to help find the location of a social activity and can help publish a social event and so do with easiness for managing donation for the social activity.

The purpose of the analysis and design of this application is to build information systems to help for social activities in the region who want to know and help publish social activities so donors will no longer have to face a difficult situation to find channel donations such as fundraising, book donations, zakat, victims of natural disasters, blood donations, counselling and many others. To facilitate the reader in understanding the results of this study, then the author is done in the form of five parts: **I. Introduction**. In this section, we describe the

background, the problem, the purpose of writing and systematic of writing. **II. Fundamental Theory.** In this section, we describe the short theory we use as the basis of our research. **III. Methods** Contains an explanation of the methods we use in completing this research. **IV. Results and Discussions.** Contains analysis and design of Ants Adventure Community that we use to solve the problem described above. **V. Conclusions.** Contains the conclusions of the overall research framework.

II. FUNDAMENTAL THEORY

A. System

Understanding the system according to Hitesh Gupta (2011: 14), is a grouping regularly between components that are connected to each other in accordance with the plan to achieve certain goals. In this case, components can mean physical material parts, managerial steps or procedures in structures at different levels^[5]. Whereas according to Valacich, et al (2012: 6) "The system is a set of related business components or procedures used in a single business units and work together for a specific purpose^[6]."

B. Information Systems

According to O'Brian dicutop by Jacob (2012: 17) in the introductory book Information System, information systems are a regular combination of the people, hardware, software, communication networks, and data resources that collect, change, information within an organization^[7]

C. Definition of Social Service Activity

Social events or social activities are also called social services or better known as activity social is an activity of the form of caring or a sense of humanity to fellow human beings. Where with this activity we can attach our sense of kinship to others. Individuals and groups cover the word social in it. devotion can be interpreted as binding or binding to self or other self-self. This bond is a caring, a sense of responsibility towards the life of others. Social devotion can mean giving something (to the needy)^[8].

D. UML (Unified Modeling Language)

Unified Modeling Language, or UML, is a standard set of diagramming techniques that provides graphical representation to illustrate models in a system development project from system development analysis through implementation. Currently most object-oriented system analysis and design approaches use UML to describe a developing system. UML uses a diverse set of diagrams to illustrate the views of a growing system (Alan Denis, 2012: 43)^[9].

E. Waterfall Presman Development Model

This model approaches systematically and sequentially. Called the waterfall because step by step through which must wait for the completion of the previous stage and run in sequence.

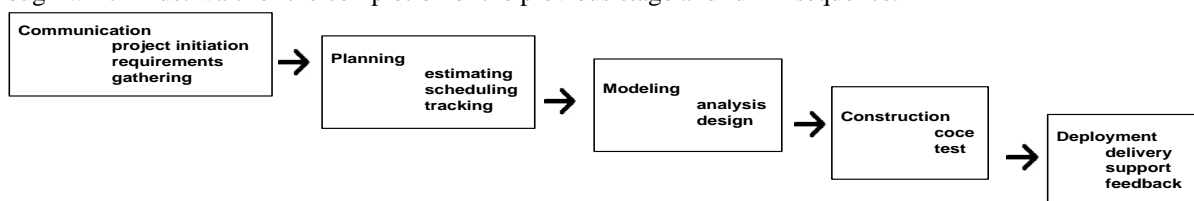


Fig 1. Waterfall Presman

In this study we focusing on Modeling (Analysis & Design). This stage is the stage of designing and modeling system architecture that focuses on the design of data structures, software architecture, interface display, and program algorithms. The goal is to better understand the big picture of what will be done^[10].

III. METHODS

A. Research Methods

We use applied research for this study. The results of this research can be applied immediately to solve problems in the Community "Semut Adventure".

B. Data Collection Data

For this study, data was collected through 1. Interview section with the Chairman and Public Relations of "Semut Adventure" community. Data generated from these steps; 1. We analyse it to grab some system requirements. 2. Document review. At this point, we asked for some related documents that used in the current business process. 3. Literature review. In this step, we look for some literature bases to solve the problem.

C. Analysis and Design

For analysis and design methods, we used object-oriented analysis and design^[11], Output of this process, A. Activity Diagram, B. Input and output analysis, C. Use Case, D. Class Diagram, E. Database Specification and F. Design Interface.

D. Implementation

For implementation, we used a web-based method, all the designs we make will turn into pages or forms of web with php and html based systems, the data management will be used in this study is SQL database support systems^[12].

IV. RESULT AND DISCUSSIONS

A. Activity Diagram

1. Activity Diagram Social Activity Search Activity

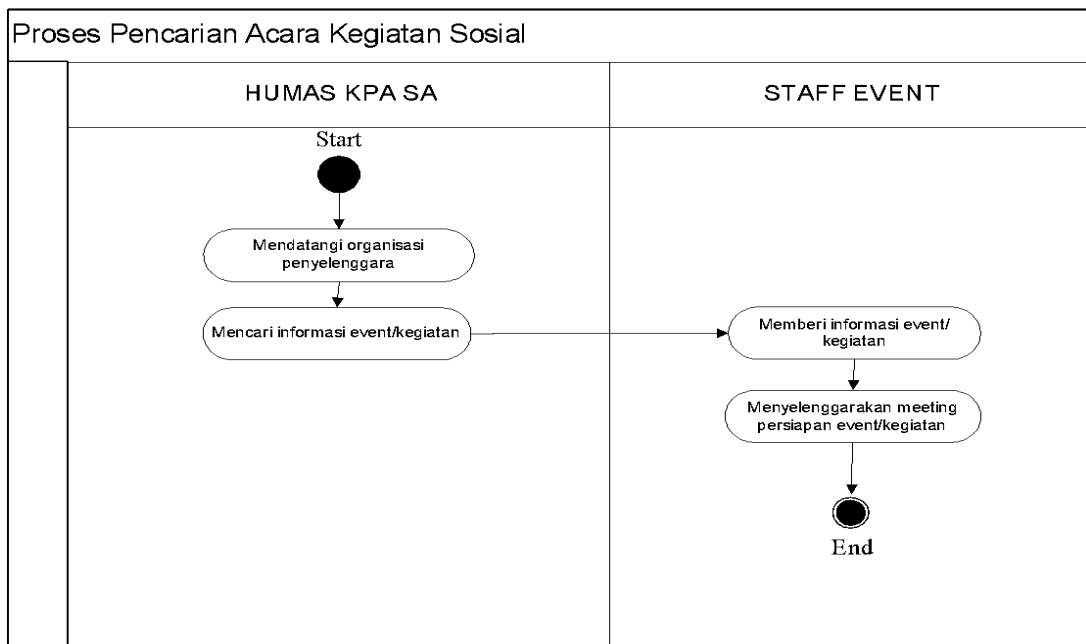


Fig 2. Activity Diagram Search Process Social

2. Activity Diagram Social Services Registration Process

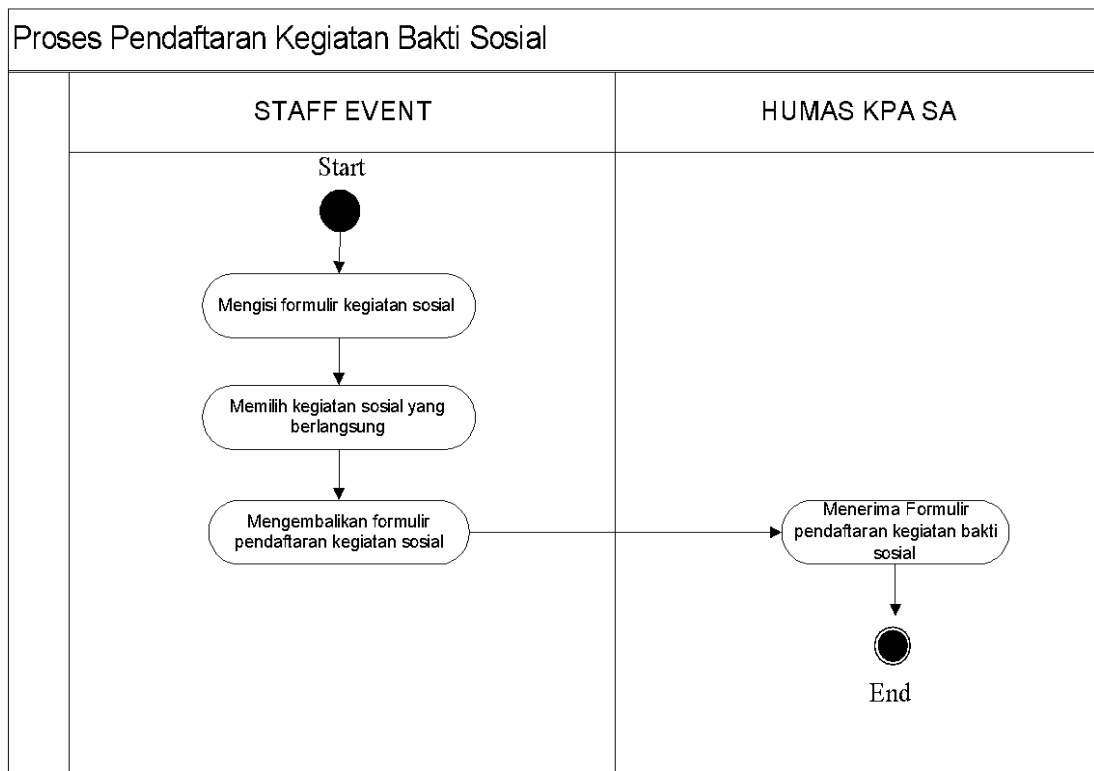


Fig 3. Activity Diagram Social Services Registration Process

3. Activity Diagram Preparatory Meeting of Social Service

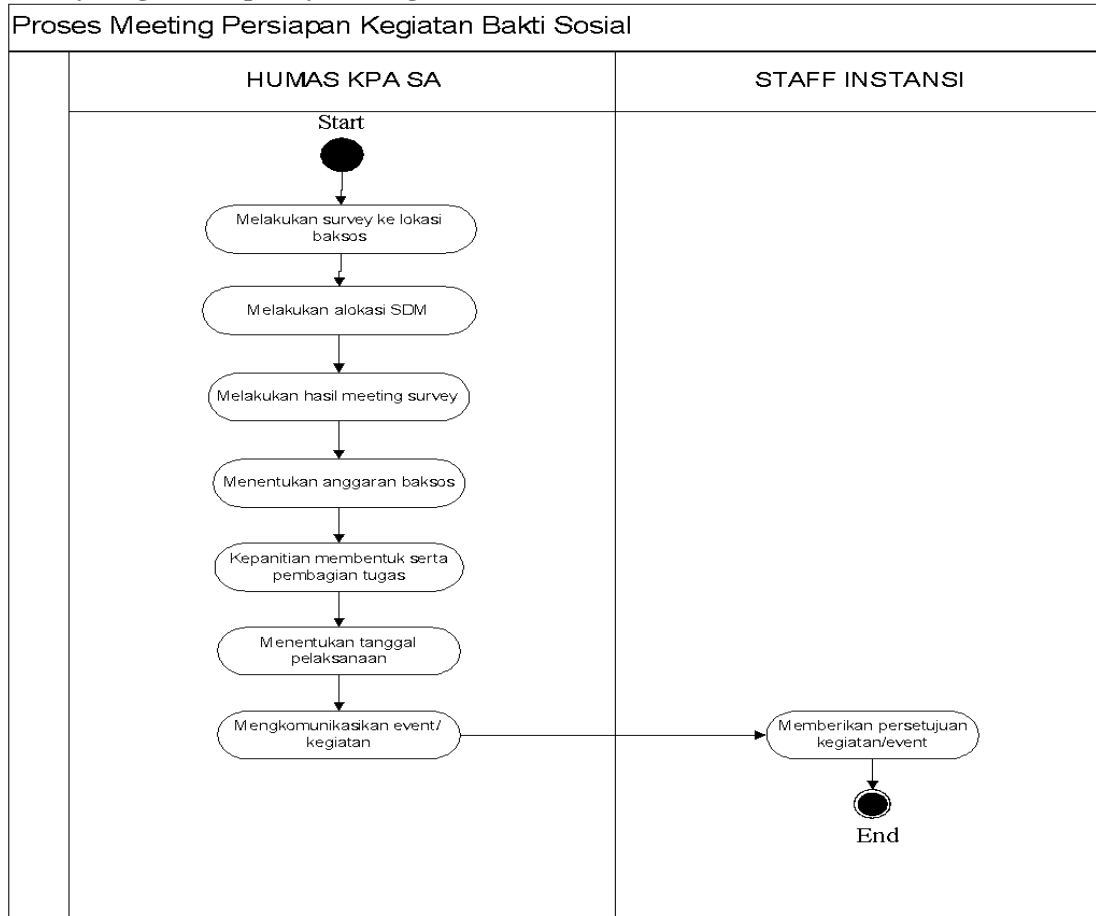


Fig 4. Activity Diagram Preparatory Meeting of Social Service

4. Activity Diagram Activity Diagram Donation Process

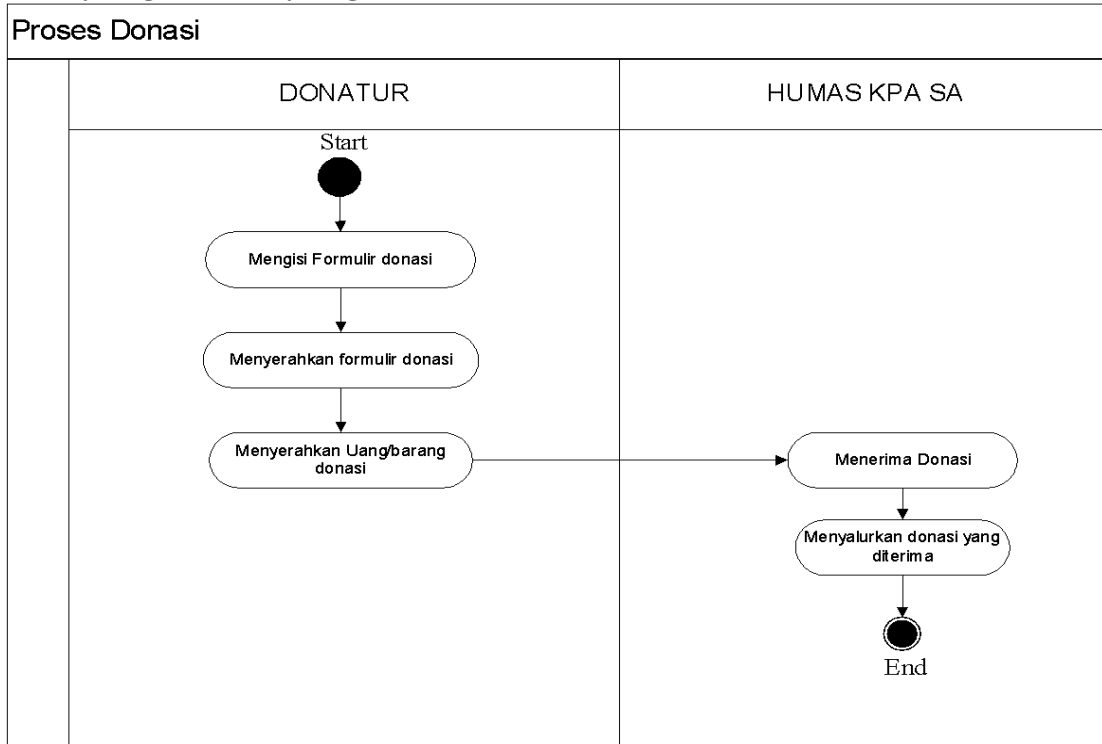


Fig 5. Activity Diagram Donation Process

5. Activity Diagram Accountability Report of Public Relations of Semut Adventure Community

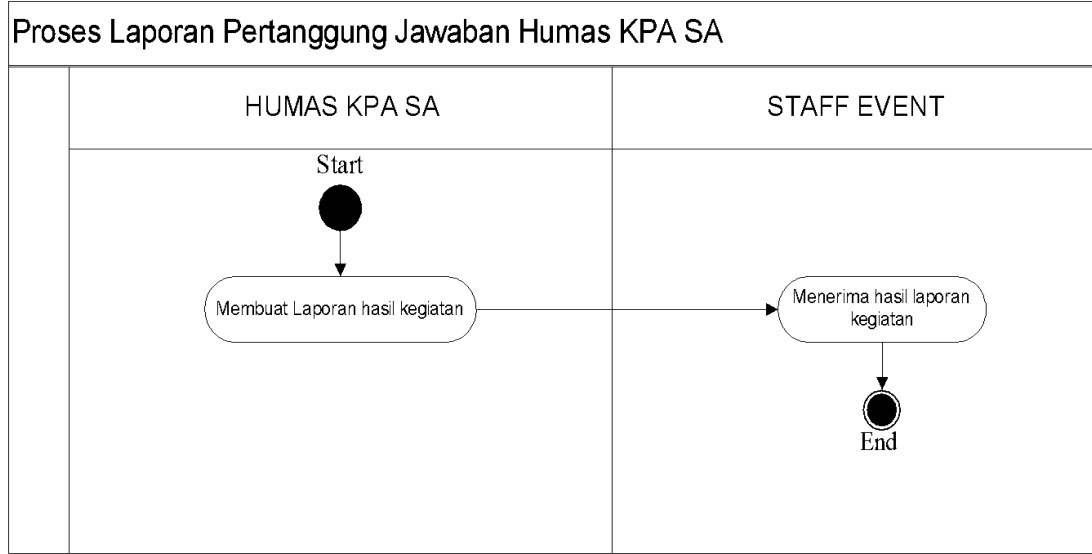


Fig 6. Activity Diagram Accountability Report of Public Relations of Semut Adventure Community

B. Use Case Diagram Proposed

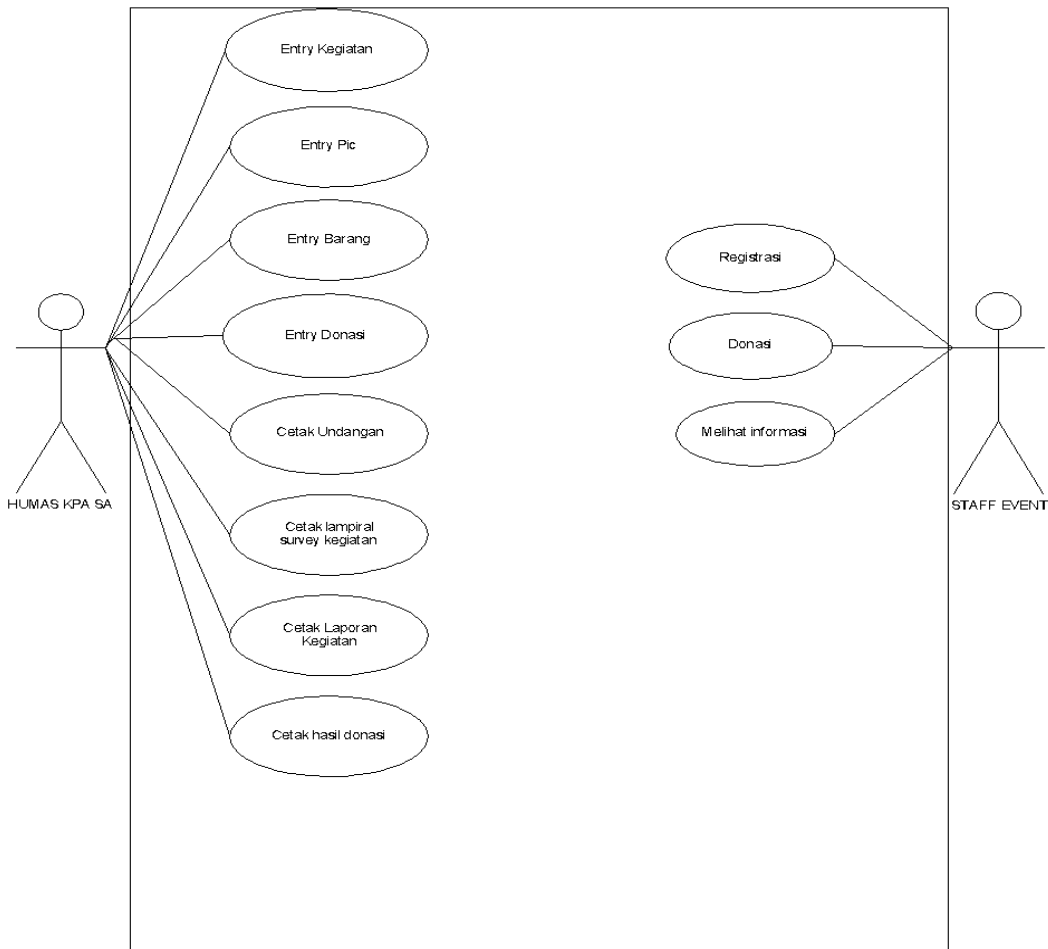


Fig 7. Use Case Diagram Proposed

C. Class Diagram

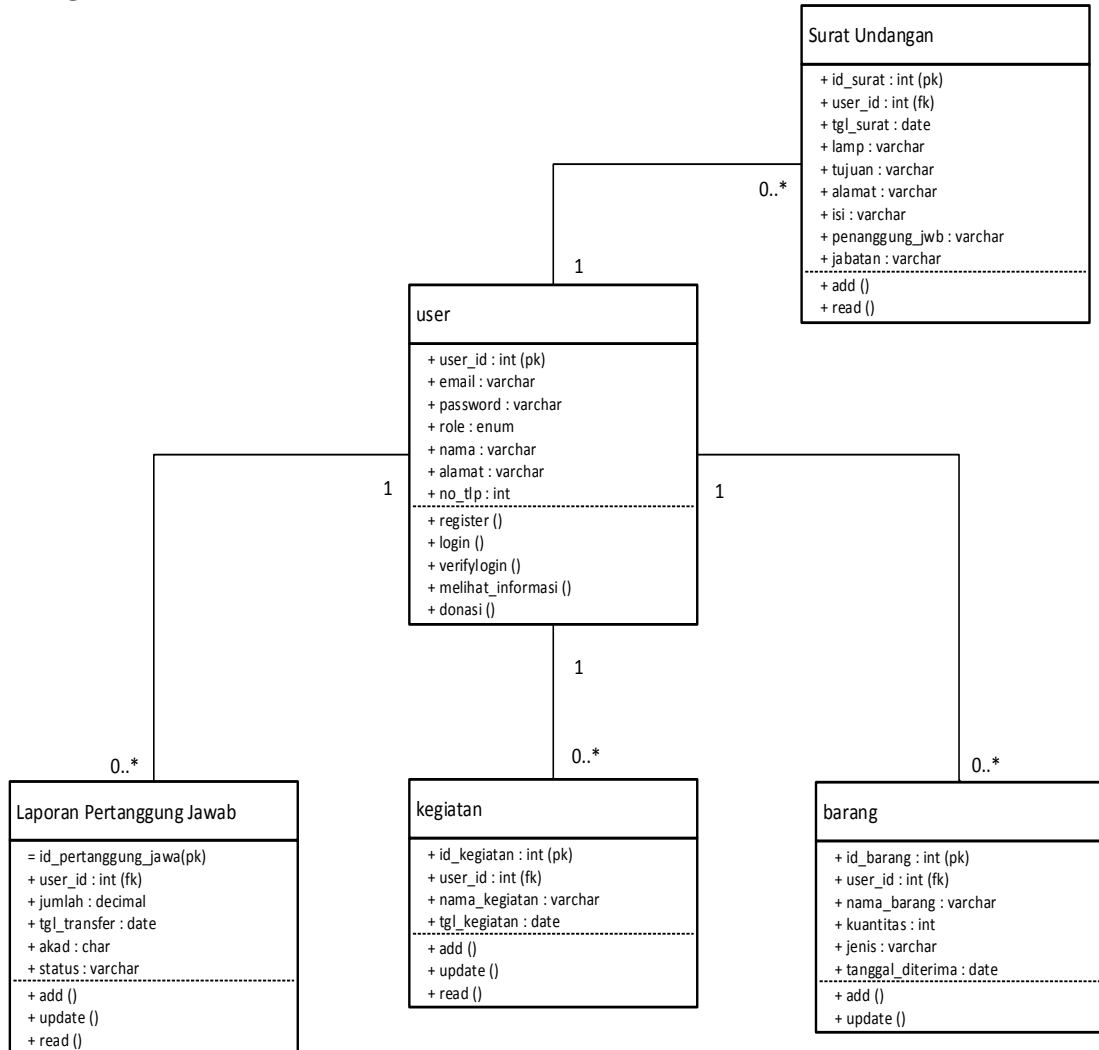


Fig 9. Class Diagram

D. Specifications Database

1. User Table

**TABLE I
TABLE: USER**

No	Field name	Data type	Size	Description
1	user_id (PK)	int	11	Number id <i>user</i>
2	Email	varchar	10	Email <i>user</i>
3	password	varchar	10	password <i>user</i>
4	Role	Enum	1	Role <i>user</i>
5	name	varchar	50	name of the <i>user</i>
6	Address	Varchar	50	address <i>User</i>
7	No_telephone	Varchar	14	number <i>user</i>

2. ResponsibilityReport Table

**TABLE II
TABLE NAME IN INDOONESIAN LANGUAGE: LAPORANPERTANGGUNGJAWAB**

No	Field Name	Data Type	Size	Information
1	Id_pj (PK)	int	5	Nmr id sign_terima
2	user_id	Int	5	Number of user id
3	number	Decimal	9	Number
4	tgl_transfer	Date	8	Transfer date
5	buk_transfer	Varchar	50	Proof of transfer
5	Akad	Char	1	Akad
6	Status	Varchar	30	Status The

3. Goods Table

TABLE III
GOODS TABLE NAME IN INDONESIAN LANGUAGE: BARANG

No.	Field Name	Data Type	Size	Information
1	id_goods (PK)	int	11	Number of goods id
2	user_id	Int	5	Number ofid <i>user</i>
3	name_goods	varchar	15	Name of goods
4	Quantity	Int	9	Quantity goods
5	Type	Varchar	30	Type of goods
6	tgl_accept	Date		Date of goods received

4. Letters Table

TABLE IV
LETTERS TABLE NAME IN INDONESIAN LANGUAGE: SURAT UNDANGAN

No.	Field Name	Data Type	Size	Information
1	id_letter (PK)	int	11	Number of letters
2	tgl_letter	Date	Date	Date of letter
3	Attachment	Varchar	20	Appendix
4	Objectives	Varchar	20	Objective
5	Address	Varchar	50	Address
6	Contents	Text		Content letter
7	bearer responsibility	Varchar	50	Responsible
8	Position	Varchar	25	Position

5. Activity Table

TABLE V
ACTIVITY TABLE NAME IN INDONESIAN LANGUAGE: KEGIATAN

No	Field Name	Data Type	Size	Information
1	id_activities(PK)	int	5	Activity id number
2	user_id (FK)	Int	5	id <i>Usernumber</i>
3	name_activities	Varchar	50	Activity name
4	tgl_activities	Date		Date Activity

E. User Interface Design

1. Login Page Interface Design



Fig10. Login page

2. Registration Page Interface Design

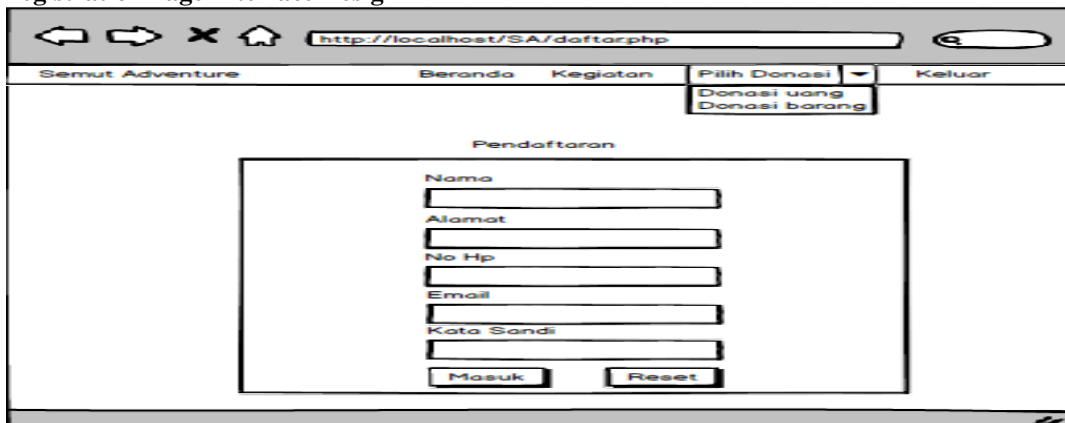


Fig 11. Registration page

3. View Home Page Interface Design

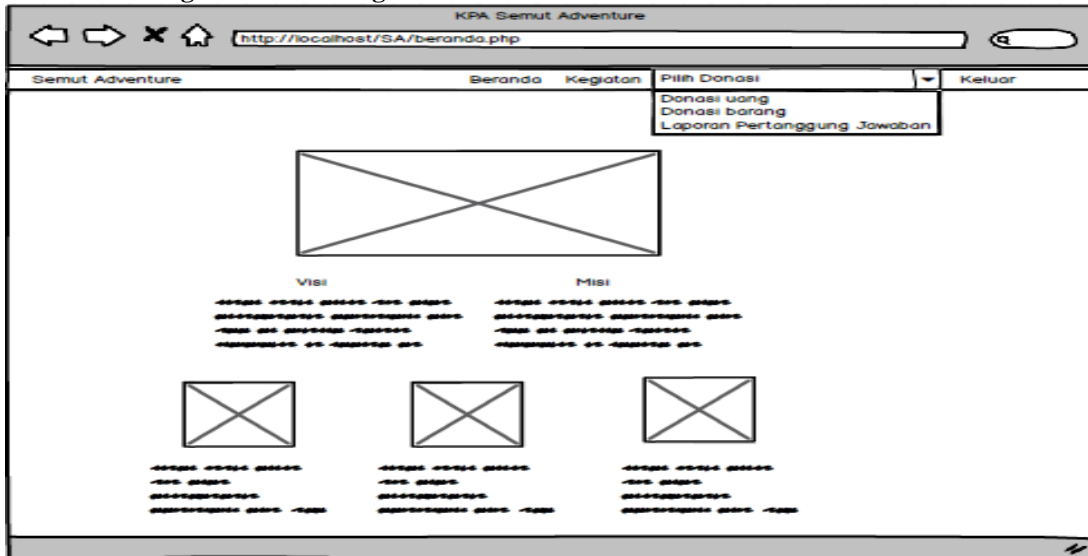


Fig12. Home Page

4. View Activity Interface Design

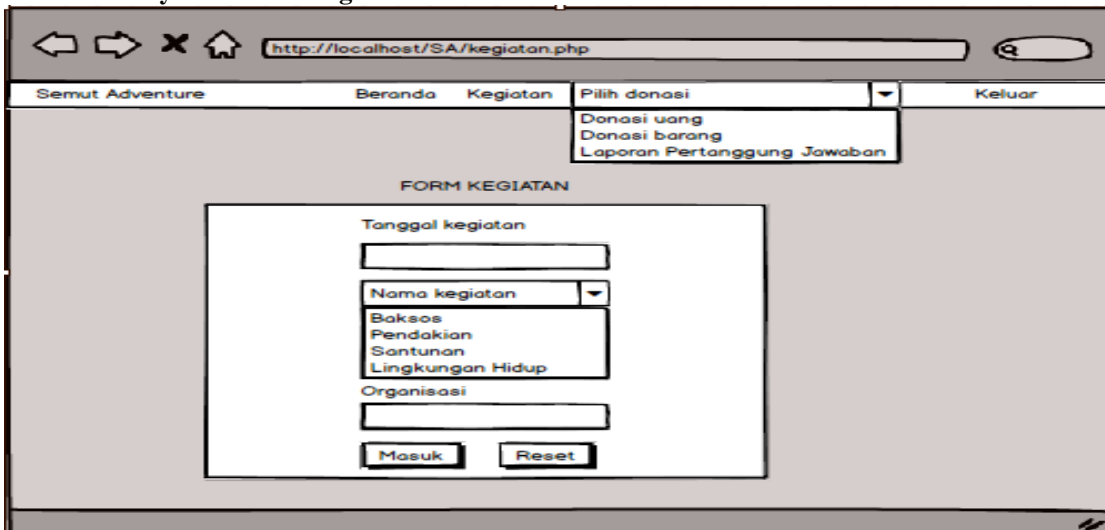


Fig 13. View Activity Page

5. Display Admin Page Interface Design

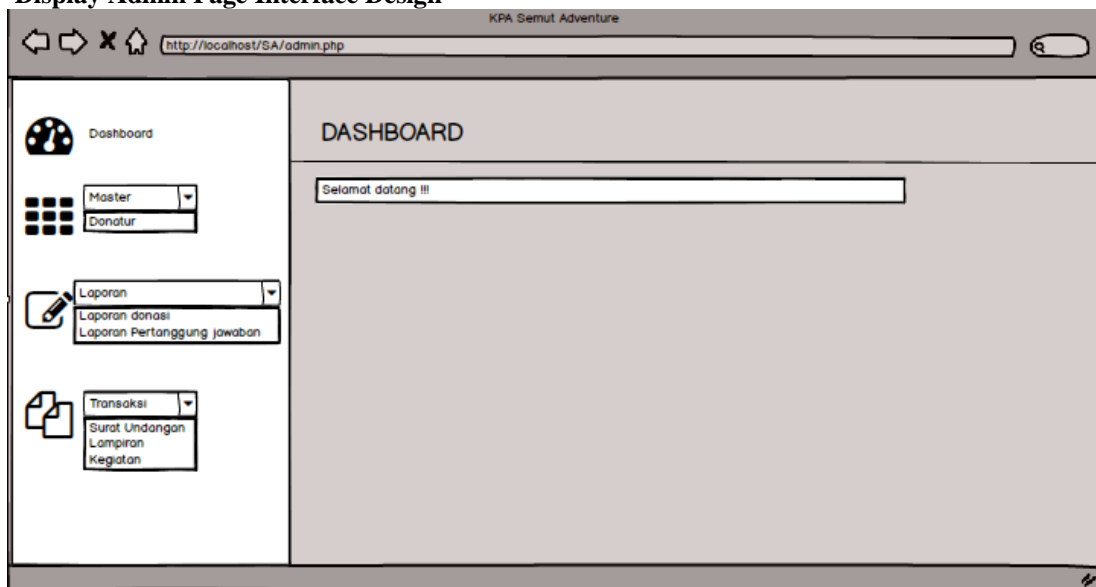


Fig14. Admin Page

V. CONCLUSIONS

Based on the results of the analysis and design that have been described above it can be drawn the conclusion:

1. This system can find what activities we want with ease.
2. This system can manage receiving for donation in the form of goods and money
3. This system can find a regular donor if you want to create activities. Because the regular donor is recorded through the system while they're registering.
4. This system can create accountability reports of what activities that have been done.
5. Creating invitation letter for donors or person in charge to join the activities or the preparation meeting.

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