

DOCUMENT
SOFTWARE REQUIREMENTS SPECIFICATION

EVENT CALENDAR APPLICATION
REMINDER APPLICATIONS OF ACTIVITIES IN THE DEPARTMENT OF
INFORMATICS ENGINEERING ITS


to:
DEPARTMENT OF INFORMATICS ENGINEERING ITS

prepared by:

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Informatics Engineering - Institute of Technology

Campus of ITS at Keputih Sukolilo Surabaya

	department Technical Information ITS	Document No.		Page
		<i>SKPL-001</i>		1 / # 52
		Revision	-	DD MM YYYY

LIST OF CHANGES

Revision	Description
A	
B	
C	
D	
E	
F	
G	

INDEX DATE	-	A	B	C	D	E	F	G
Written by								
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Department of Information Engineering ITS	SKPL-001	Page 3 from 57
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List Page Changes

Page	Revision	Page	Revision

Department of Information Engineering ITS	SKPL-001	Page 4 from 57
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table of contents

- [1 preliminary](#)
 - [1.1 Purpose Document](#)
 - [1.2 scope of problem](#)
 - [1.3 Definitions and Terms](#)
 - [1.4 Rules Naming and Numbering](#)
 - [1.5 Reference](#)
 - [1.6 Oversee Documents](#)
- [2 General Description of Software](#)
 - [2.1 General Description System](#)
 - [2.2 Product function](#)
 - [2.3 characteristics of Users](#)
 - [2.4 restriction](#)
 - [2.5 Operating environment](#)
- [3 General Description of Requirement](#)
 - [3.1 External interface requirements](#)
 - [3.1.1 the user interface](#)
 - [3.1.2 Hardware interface](#)
 - [3.1.3 The software interface](#)
 - [3.1.4 communication interface](#)
 - [3.2 Functional Description](#)

Department of Information Engineering ITS	SKPL-001	Page 5 from 57
This document templates dimiliki ya adalah milik Laboratorium dan informasi the Software Engineering Department of Information-ITS and confidential. Forbidden to reproduce this document unnoticed by the Software Engineering Laboratory Department of Information-ITS.		

- [3.2.1 Use Case Diagram](#)
- [3.2.2 Function 1: Booked WACA](#)
 - [3.2.2.1 Scenario: Booked WACA](#)
 - [3.2.2.2 Activity Diagram: Booked WACA](#)
 - [3.2.2.3 Sequence Diagram: Booked WACA](#)
 - [3.2.2.4 Diagram Collaboration Objects: Booked Field olehraga](#)
- [3.2.3 Function 2: Changing Schedules That Have Been Ordered](#)
 - [3.2.3.1 Scenario: Changing Schedules That Have Been Ordered](#)
 - [3.2.3.2 Activity Diagram: Changing Schedules That Have Been Ordered](#)
 - [3.2.3.3 Sequence Diagram: Changing Schedules That Have Been Ordered](#)
 - [3.2.3.4 Diagram Collaboration Objects: Changing Schedules That Have Been Ordered](#)
- [3.2.4 Function 3:cancel your reservation](#)
 - [3.2.4.1 Scenario: cancel your reservation](#)
 - [3.2.4.2 Activity Diagram: cancel your reservation](#)
 - [3.2.4.3 Sequence Diagram: cancel your reservation](#)
 - [3.2.4.4 Diagram Collaboration Objects: cancel your reservation](#)
- [3.2.5 Function 4: see Schedule](#)
 - [3.2.5.1 Scenario: see Schedule](#)
 - [3.2.5.2 Activity Diagram: see Schedule](#)
 - [3.2.5.3 Sequence Diagram: see Schedule](#)
 - [3.2.5.4 Diagram Collaboration Objects: see Schedule](#)
- [3.2.6 Function 5: Seeing Information WACA](#)
 - [3.2.6.1 Scenario: Seeing Information WACA](#)
 - [3.2.6.2 Activity Diagram: Seeing Information WACA](#)
 - [3.2.6.3 Sequence Diagram: Seeing Information WACA](#)
 - [3.2.6.4 Diagram Collaboration Objects: Seeing Information WACA](#)
- [3.2.7 Function 6: Booking confirmation](#)

Department of Information Engineering ITS	SKPL-001	Page 6 from 57
<p>This document templates dimiliki ya adalah milik Laboratorium dan informasi the Software Engineering Department of Information-ITS and confidential. Forbidden to reproduce this document unnoticed by the Software Engineering Laboratory Department of Information-ITS.</p>		

- [3.2.7.1 Scenario: Booking confirmation](#)
- [3.2.7.2 Activity Diagram: Booking confirmation](#)
- [3.2.7.3 Sequence Diagram: Booking confirmation](#)
- [3.2.7.4 Diagram Collaboration Objects: Booking confirmation](#)
- [3.2.8 Function 7: Checking List Booking and Sports Equipment](#)
 - [3.2.8.1 Scenario: Checking List Booking and Sports Equipment](#)
 - [3.2.8.2 Activity Diagram: Checking List Booking and Sports Equipment](#)
 - [3.2.8.3 Sequence Diagram: Checking List Booking and Sports Equipment](#)
 - [3.2.8.4 Diagram Collaboration Objects: Checking List Booking and Sports Equipment](#)
- [3.2.9 Function 8: Removing Booking](#)
 - [3.2.9.1 Scenario: Removing Booking](#)
 - [3.2.9.2 Activity Diagram: Removing Booking](#)
 - [3.2.9.3 Sequence Diagram: Removing Booking](#)
 - [3.2.9.4 Diagram Collaboration Objects: Removing Booking](#)
- [3.2.10 Function 9: Seed Courses Booking Reports](#)
 - [3.2.10.1 Scenario: Seed Courses Booking Reports](#)
 - [3.2.10.2 Activity Diagram: Seed Courses Booking Reports](#)
 - [3.2.10.3 Sequence Diagram: Seed Courses Booking Reports](#)
 - [3.2.10.4 Diagram Collaboration Objects: Seed Courses Booking Reports](#)
- [3.3 Description of classes](#)
 - [3.3.1 Class diagram](#)
 - [3.3.2 Description Domain Issues](#)
 - [3.3.3 Class Description Controller](#)
 - [3.3.4 Class Description *Entity \(Persistent\)*](#)
 - [3.3.5 Class Description *Boundary*](#)
- [3.4 Data Flow Diagram](#)
- [3.5 Non-Functional Requirement](#)

Department of Information Engineering ITS	SKPL-001	Page 7 from 57
<p>This document templates dimiliki ya adalah milik Laboratorium dan informasi the Software Engineering Department of Information-ITS and confidential. Forbidden to reproduce this document unnoticed by the Software Engineering Laboratory Department of Information-ITS.</p>		

[3.6](#) [limitations Design](#)

[3.7](#) [Needs summary](#)

[3.7.1](#) [Summary Functional Requirements](#)

[3.7.2](#) [Summary of Non-Functional Requirements](#)

Department of Information Engineering ITS	SKPL-001	Page 8 from 57
This document templates dimilikinyaadalahmilikLaboratorium daninformasi the Software Engineering Department of Information-ITS and confidential. Forbidden to reproduce this document unnoticed by the Software Engineering Laboratory Department of Information-ITS.		

List of Tables

[Table 1 Rules of Naming and Numbering](#)

[Table 2 Characteristics of Users](#)

[Table 3 Class Description Domain Issues](#)

[Table 4 Description of the Controlling Class](#)

[Table 5 Description Class *Entity*](#)

[Table 6 Description Class *Boundary*](#)

[Table 7 Description of Non-Functional Requirements](#)

[Table 8 Summary Functional Requirements](#)

[Table 9. Summary of Non-Functional Requirements](#)

Department of Information Engineering ITS	SKPL-001	Page 9 from 57
This document templates dimilikinyaadalahmilikLaboratorium daninformasi the Software Engineering Department of Information-ITS and confidential. Forbidden to reproduce this document unnoticed by the Software Engineering Laboratory Department of Information-ITS.		

list of Figures

Figure 1. Use Case Diagram.	14
Figure 2. Diagram Activities "Order WACA"	16
Figure 3. Sequence "Order WACA"	17
Figure 4. Diagram Collaboration "Booked WACA"	18
Figure 5. Activity Diagram "Changing the schedule has been booked"	20
Figure 6. Sequence Diagram "Changing the schedule has been booked"	21
Figure 7. Diagram Collaboration "Changing the schedule has been booked"	22
Figure 8. Diagram Activities "Cancel Booking"	24
Figure 9. Sequence Diagram "Cancel Booking"	25
Figure 10. Collaboration Diagram "Cancel Booking"	26
Figure 11. Activity Diagram "See Schedule"	27
Figure 12. Sequence Diagram "See Schedule"	28
Collaboration Diagram Figure 13. "See Schedule"	29
Figure 14. Activity Diagram "Seeing Information WACA"	30
Figure 15. Sequence Diagram "Seeing Information WACA"	31
Figure 16. Diagram Collaboration "Seeing Information WACA"	32
Figure 17. Activity Diagram "Booking Confirmation"	33
Figure 18. Sequence Diagram "Booking Confirmation"	34
Figure 19. Diagram Collaboration "Booking Confirmation"	35
Figure 20. Diagram Activity "Check List Booking Golf and Sports Equipment"	36
Figure 21. Sequence Diagram "Check List Booking Golf and Sports Equipment"	37
Collaboration Diagram Figure 22. "Checking List Booking Golf and Sports Equipment"	38
Figure 23. Activity Diagram "Removing Peemasanan"	39
Figure 24. Sequence Diagram "Removing Peemasanan"	40

Department of Information Engineering ITS	SKPL-001	Page 10 from 57
<p>This document templates dimiliki ya adalah milik Laboratorium dan informasi the Software Engineering Department of Information-ITS and confidential. Forbidden to reproduce this document unnoticed by the Software Engineering Laboratory Department of Information-ITS.</p>		

Figure 25. Diagram Collaboration "Removing Peemasanan"	41
Figure 26. Activity Diagram "Seeing Reports Field Rental"	42
Figure 27. Sequence Diagram "Seeing Reports Field Rental"	43
Figure 28. Diagram Collaboration "Seeing Reports Field Rental"	44
Figure 29. Class diagram	46
Figure 30. Physical Data Model	49
Figure 31. Data Flow Diagram	51

1 Introduction

1.1 Purpose

This document contains the Software Requirement Specification (SRS) for System Reminder Activities in the Department of Informatics Engineering ITS. The purpose of writing this document is to give an explanation of the results of the software to be built either in the form of a general overview as well as detailed and thorough explanations.

This document will be used as reference material in the process of development and evaluation materials during the software development process and at the end of its development. The SRS document is expected of software development will be directed and focused and do not give rise to ambiguity, especially for software developers this event reminder system.

1.2 scope of problem

The software is built is the Event Calendar Application Informatics Engineering ITS, which is a software in the form of a desktop information system that is used as a reminder of activities in the Department of Informatics Engineering ITS. The built system can do the following things:

- 1) Seeing Event Calendar Technical Information ITS
- 2) Looking for activities in the Department of Informatics Engineering ITS
- 3) Adding Event

The Event Calendar application is expected to facilitate the academic community in the Department of Informatics Engineering ITS to obtain information about activities in the majors.

1.3 Definitions and Terms

Here is a list of definitions and key terms used in this document SRS:

Department of Information Engineering ITS	SKPL-001	Page 12 from 57
This document templates dimiliki ya adalah milik Laboratorium dan informasi the Software Engineering Department of Information-ITS and confidential. Forbidden to reproduce this document unnoticed by the Software Engineering Laboratory Department of Information-ITS.		

o SRS : *Software Requirements Specification*

SKPL : Software Requirements Specification

Documents containing the results of the analysis of software requirements specification.

o IEEE : *Institute of Electrical and Electronics Engineering*

The international standard for the development and design of products.

o ANSI : *American National Standards Institute*

Standardization Institute of America.

o TBD : *To Be Defined*

o LAN : Local Area Network

o SIBES Information Systems Scholarship

1.4 Rules Naming and Numbering

Writing this SKPL document using a variety of naming and numbering rules are different for certain parts. Naming and numbering used by it / The sections are as listed in Table 1 below.

Table 1 Rules of Naming and Numbering

Things / Section	Rule numbering / naming
Functional Requirements	SKPL-FXX: Shows the functional needs of the XX
Non-Functional Requirement	SKPL-NFXX: Indicates non-functional requirements into XX
Summary of functional requirements	SKPL-Fxxx dimana xxx is the three-digit integers starting from 000

Department of Information Engineering ITS	SKPL-001	Page 13 from 57
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Summary of non-functional requirements	SKPL-NFxxx dimana xxx is the three-digit integers starting from 000
--	---

1.5 References

The documents used as a reference in making SRS are as follows:

- 1) Dokumen Software Requirement Specification (SRS) - IEEE 1999 by Karl E. Wiegers.
- 2) The User Manual and Software Specifications Charging (SKPL), Department of Informatics, Institute of Technology November.
- 3) The User Manual and Software Specifications Charging (SKPL), Department of Informatics, Institut Teknologi Bandung.

1.6 Overview of Document

This document outlines consists of three chapters with the following details:

- Chapter 1 Introduction, an introduction to this SKPL document that contains the purpose of writing the document, the scope of the problem, also contains definitions and terms used as well as a general description of the document which is a summary document SKPL.
- Chapter 2 Description Global Software, define the perspective of software products as well as assumptions and dependencies used in pengembangan Sistem Pemesanan Fazor.
- Chapter 3 Detailed Description of Requirement, describe special needs bagi Sistem Pemesanan Fazor, which meliputi kebutuhan external interface, functionality requirements, performance requirements, design constraints, attributes of software systems, and other needs dari Sistem Pemesanan Fazor

Department of Information Engineering ITS	SKPL-001	Page 14 from 57
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2 General Description of Software

2.1 General Description System

Event Calendar application is an application that captures information Activities academic and non-academic in the Department of Informatics Engineering ITS and a media that facilitates the academic community in the majors in getting information about the schedule of activities. In this application, there are 3 users, 2 users associated with these systems, namely Kajur (Admin) and special users. While users of other so-called general users, that only able to see without being able to access the system. Kajur have the right to manage the system, such as managing special user and manage the event. User Lodging (Lecturer, TU, Chairman of HMTC, Chairman of the KMI, Chairman of the Schematics) can manage the event that they create and manage their accounts. This application can be accessed by the general user without a login.

The software system built has a few main parts by the user, which is as follows:

- 1) From the Kajur, the system provides a wide range of facilities to ease of use and faster access to Event Calendar app, such as adding a special user, delete special user, manage your own account, manage the event (add, edit, delete), see event made their own, look at the calendar, see the list of events, search for events that exist and events that made their own.
- 2) Special Users, the system can manage their own accounts, manage the event (add, edit, delete), see event made their own, looking at the calendar, see the list of events, search for events that exist and events that made their own.
- 3) From the General User, the system can look at the calendar, see the list of events, searching for an existing event.

These systems have the protection of access rights for Admin and User Special intended for security and safety systems.

2.2 Product function

Software SIFASOR has several major functions, among others:

1. (SKPL-F1) To manage event/ activities in the Department of Informatics Engineering ITS
2. (SKPL-F2)

Department of Information Engineering ITS	SKPL-001	Page 15 from 57
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3. (SKPL-F3)
4. (SKPL-F4)
5. (SKPL-F5)

2.3 characteristics of Users

Characteristics of the Scholarship Information System are outlined in the following table:

No.	User Category	Task	Access rights to the application	The ability to be possessed
1.	Chairman (Admin)	manage Applications	Can manage (add, change and delete) information on the activities and manage special user accounts	1. He/She can operate a computer 2. He/She can operate web and database
2.	Special user	manage Applications	Can manage your personal account (edit) to manage the event made its own (edit, add, delete)	1. He/She can operate a computer 2. He/She can use the internet
3.	General user	accessing Applications	Can see information on the calendar application of events	There are no special requirements, as long as there is an internet connection

2.4 Restriction

Events Calendar Application Development has limitations are as follows:

1. Events Calendar application is built using HTML, PHP.
2. The interface is only a simple menu display.

Department of Information Engineering ITS	SKPL-001	Page 16 from 57
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3. The limitations of the hardware used, for example, limited memory capacity, storage capacity is limited.
4. Software support used is DBMS SQL-Server, Visual Studio 2012, Notepad ++ and Sublime Text 3.

2.5 *Operating environment*

Applications information System Events Calendar has specifications as follows:

Platform Operating System : Microsoft Windows

Operating system version : Windows Server 2003 / XP SP2 / Vista / 7/8

DBMS : SQL-Server

Framework : HTML and PHP

3 General Description of Requirement

3.1 *External interface requirements*

3.1.1 the user interface

Application Calendar of Events use graphical interface (GUI). Users can input via the keyboard and mouse, and is used by the Windows operating system.

3.1.2 Hardware interface

Events Calendar Application System running on the server computer. All computers are installed Applications must be interconnected in a LAN.

3.1.3 The software interface

Events Calendar application is a program that will be built using HTML, PHP, SQL-Server and will run on WINDOWS Operating System.

3.1.4 communication interface

Events Calendar application is a system that is connected in the Internet network.

Department of Information Engineering ITS	SKPL-001	Page 17 from 57
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3.2 Functional Description

3.2.1 Use Case Diagram

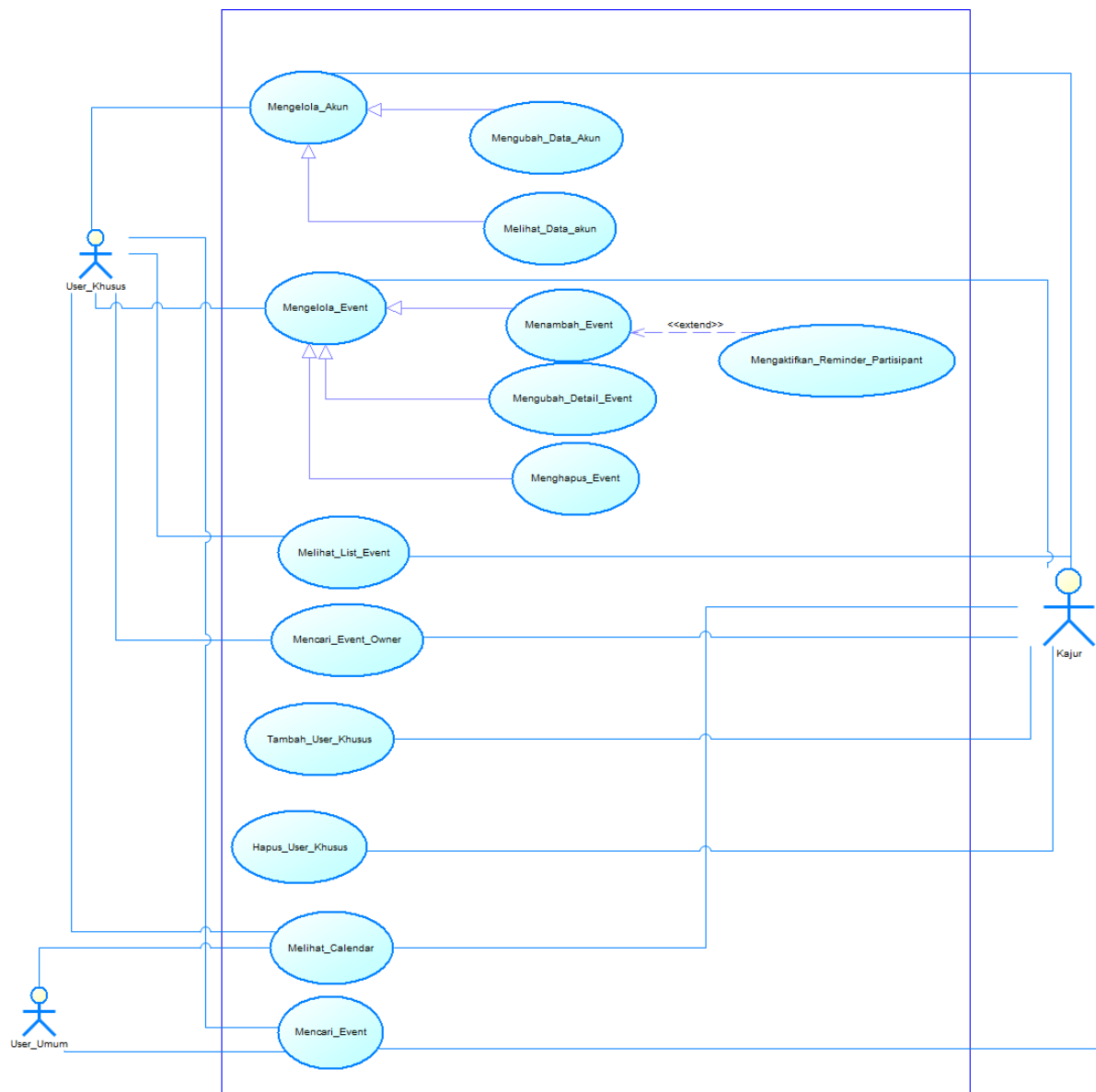


Figure 1. Use Case Diagram

3.2.2 Function 1: Changing Account Data

3.2.2.1 Scenario: Changing Account Data

Use Case Code	UC 1
Use Case Name	Changing Account Data
Actor	Special user
Description	Change the account owner information
Relation	-
Pre-Condition	The last information
Post Condition	new information
Main Flow	
Actor	System
1.Special User entry to the manage account page and select the edit menu	2.Sistem display the form edit account
3.Special User edit data	

Department of Information Engineering ITS	SKPL-001	Page 19 from 57
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	<p>4. The system converts the data according to the input given</p> <p>A1.Data entered is not valid</p> <p>5. Completed</p>
Main Flow	
A1. The data entered is not valid	
Actor	System
A1.2 Special Users receive a warning message shown the system by pressing the "OK"	<p>A1.1 The system displays a warning message that the data entered is not valid</p> <p>A1.3 system back into the case of the number 2</p>

3.2.2.2 Activity Diagram: Changing Account Data

Department of Information Engineering ITS	SKPL-001	Page 20 from 57
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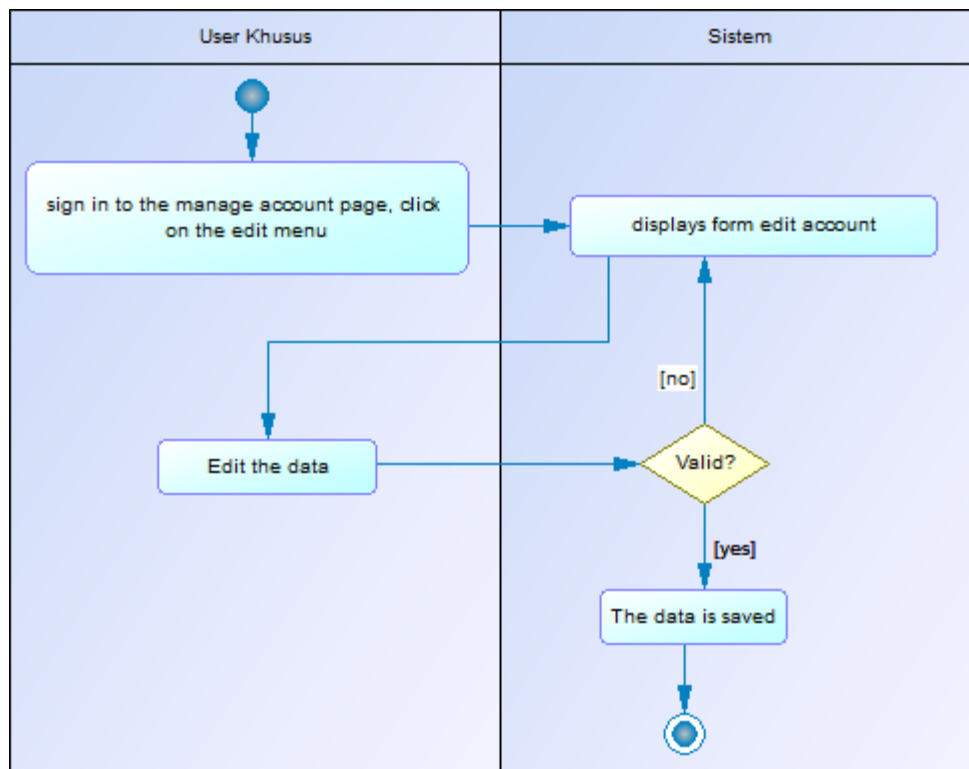


Figure 2. Diagram Activity "Change Account"

3.2.3 Function 2: Seeing Account Data

3.2.3.1 Scenario: Seeing Account Data

Use Case Code	UC 2
Use Case Name	Seeing Account Data
Actor	Special user
Description	See personal account information
Relation	-
Pre-Condition	The last information
Post-Condition	The last Information
Main Flow	
Actor	System
1. Go to the manage account page and select menu LihatDataAkun	2. The System show the account data 3. Done
AlurKejadianAlternatif (N)	

3.2.3.2 Diagram Activities: Seeing Account Data

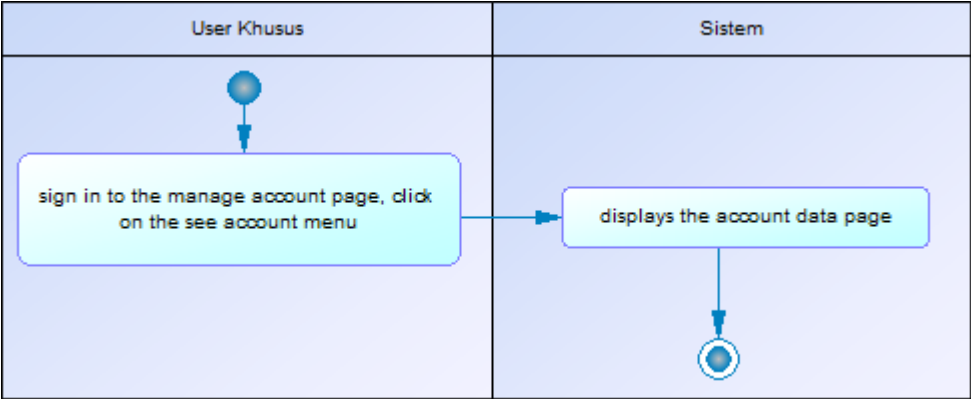


Figure 5. Activity Diagram "See account data"

3.2.4 Function 3: Add Event

3.2.4.1 Scenario: Add Event

Use Case Code	UC 3
Use Case Name	add events

Department of Information Engineering ITS	SKPL-001	Page 23 from 57
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Actor	Special user
Description	add event
Relation	Extend with Mengaktifkan_reminder_partisipant
Pre-Condition	No event
Post-Condition	No event is added
Main Flow	
Actor	System
1. go to the event management page and click on “add event “ button 3. Special User fill the form add event	2 System displays form add event 4.Sistem add the data filled to the database A1. The data entered is not valid A2. Event added already exists 5. Completed
Alternate Flow	
A1. The data entered is not valid	
Actor	System

Department of Information Engineering ITS	SKPL-001	Page 24 from 57
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<p>A1.2. Special user receives a warning from the system by pressing the "Ok"</p>	<p>A.1.1 The system displays a warning that the data entered is not valid</p> <p>A.1.3 Return to the case number 2</p>
<p>A2. Event added already exists</p>	
<p>Actor</p>	<p>System</p>
<p>A2.2. Special user receives a warning from the system by pressing the "Ok"</p>	<p>A.2.1 The system displays a warning that the data entered is already there</p> <p>A.2.3 Return to the case number 2</p>

3.2.4.2 Diagram Activities: Add event

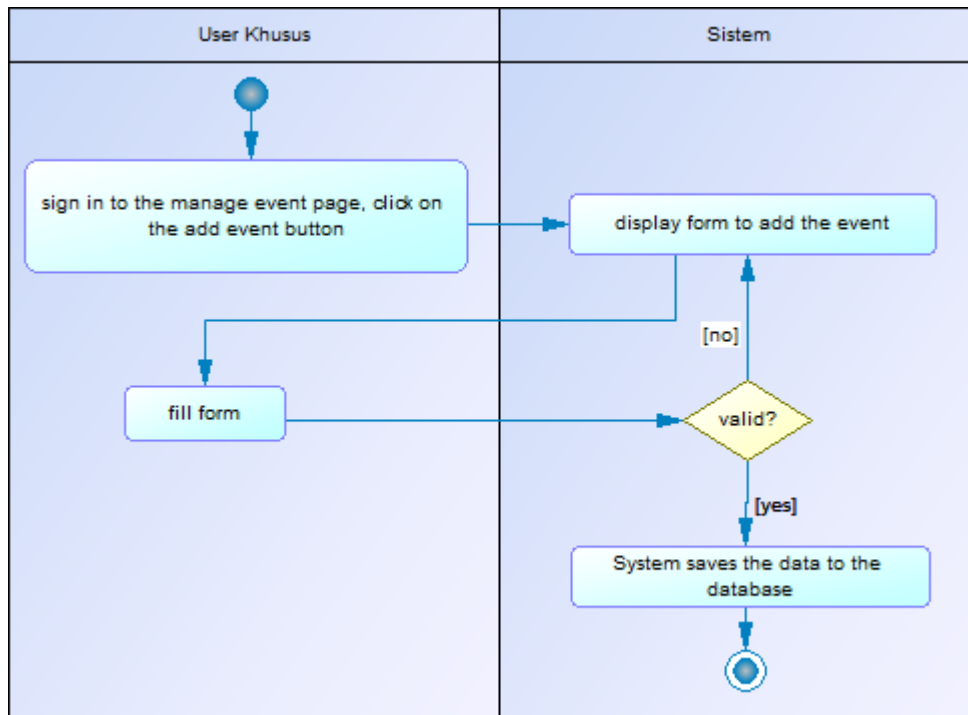


Figure 8. Diagram Activities "Add event"

3.2.5 Function 4: Change the Event Details

3.2.5.1 Scenario: Change the Event Details

Use Case Code	UC 4
Use Case Name	Change the event details
Actor	Special user
Description	Change the event details

Department of Information Engineering ITS	SKPL-001	Page 26 from 57
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Relation	-
Pre-Condition	Default event details / conditions previously
Post-Condition	The new event details
Main Flow	
Actor	System
1. User go to the manage event page and click the edit button in the event that you want to edit 3. Special Users edit the data	2.System displays form to edit the data event 4. The system converts the data according to the input given A1.Data entered is not valid 5. Completed
Alternate Flow	
A1. The data entered is not valid	
Actor	System
	A1.1 The system displays a warning message that the data entered is not valid

A1.2 Special Users receive a warning message shown the system by pressing the "OK"	
	A1.3 system back into the case of the number 2

3.2.5.2 Activity Diagram: Changing Event Details

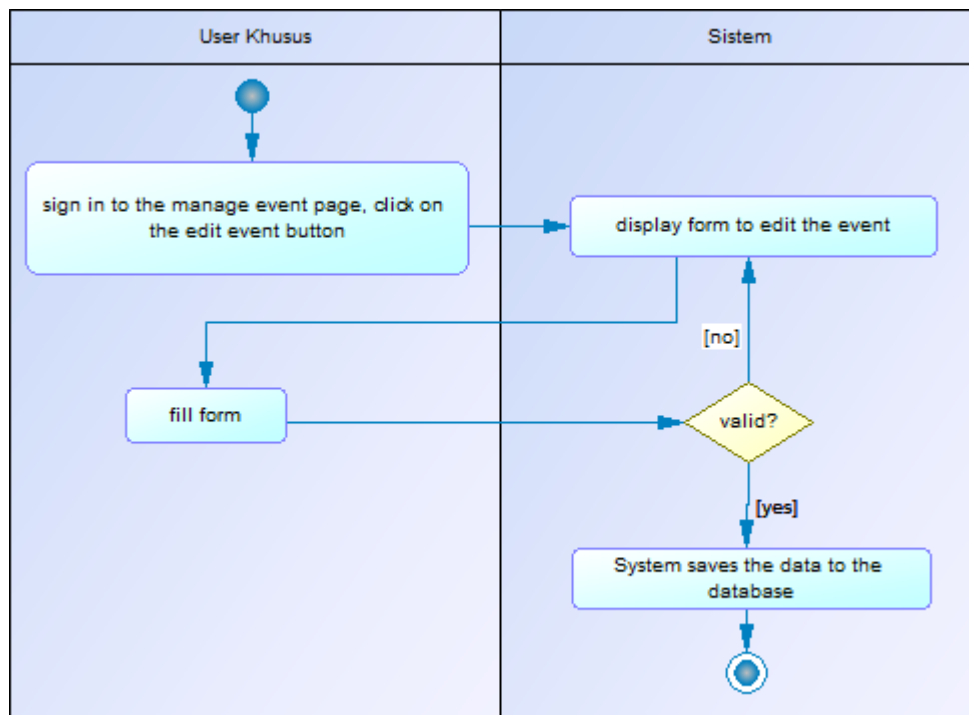


Figure 11. Activity Diagram "Changing Event Details"

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Department of Information Engineering ITS	SKPL-001	Page 28 from 57
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3.2.6 Function 5: Delete the Event

3.2.6.1 Scenario: Delete The Event

Use Case Code	UC 5
Use Case Name	Delete the event
Actor	Special user
Description	Removing event
Relation	-
Pre-Condition	No event
Post-Condition	Event is removed from the database
Main Flow	
Actor	System
1. Special User go to the manage event page and click delete on the name of the event that you want to delete	2. the System removes event with the details on the database 3. Done

3.2.6.2 Activity Diagram: Delete The Event

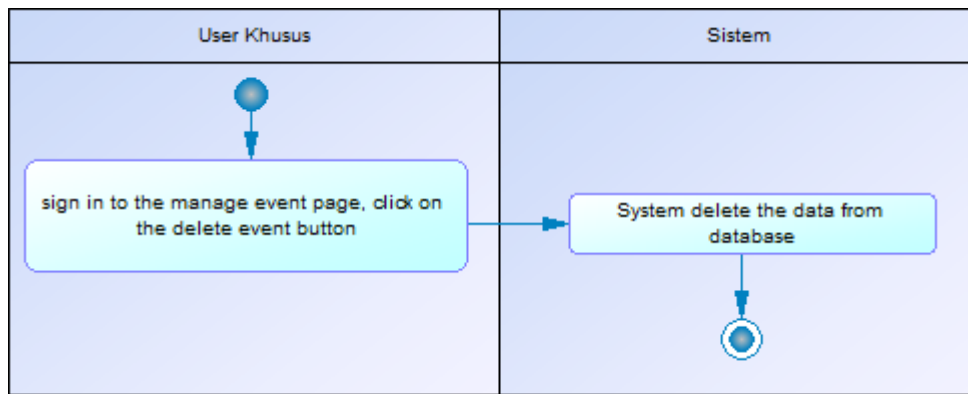


Figure 14. Activity Diagram "Delete Event"

3.2.7 Function 6: See The Event List

3.2.7.1 Scenario: See The Event List

Use Case Code	UC 6
Use Case Name	See theEvent List
Actor	Special user
Description	Displays a list of events by category (year, month, week, day)
Relation	-
Pre-Condition	Not seen the event list
Post-Condition	Seen the event list
Main Flow	

Department of Information Engineering ITS	SKPL-001	Page 30 from 57
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Actor	System
1. Special User go to the event management page and click the button event list	2. System displays the page of the events list
3. User-select the category	4. The system displays a list of events based on the category selected
	5. Completed

3.2.7.2 Diagram Activities: See The Event List

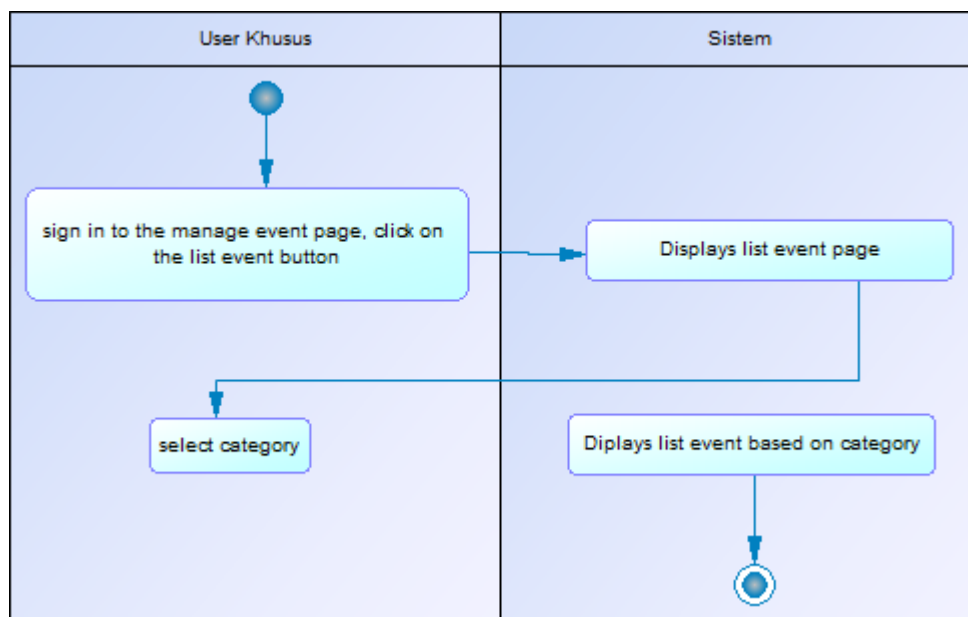


Figure 17. Activity Diagram "Seeing Event List"

3.2.8 Function 7: Searching Event Owner

3.2.8.1 Scenario: Searching Event Owner

Use Case Code	UC 7
Use Case Name	Searching Event Owner
Actor	Special user
Description	Looking for an event by word input
Relation	-
Pre-Condition	It does not look the event sought
Post-Condition	Seen event sought
Main Flow	
Actor	System
1. Users go to the event management page	2. System Displays the page of event management 4. The system displays event details sought A1. The event name does not exist
3. User fills search box and click the search icon	

Department of Information Engineering ITS	SKPL-001	Page 32 from 57
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	<p>A2. Click the icon search without filling the search box</p> <p>5. Completed</p>
Alternate Flow	
A1. The event name does not exist	
Actor	System
<p>A1.2. Special user receives a warning from the system by pressing the "Ok"</p>	<p>A.1.1 The system displays a warning that the data sought no</p> <p>A.1.3 Return to the case of number 2</p>
A2. Click the icon search without filling the search box	
Actor	System
<p>A2.2. Special user receives a warning from the system by pressing the "Ok"</p>	<p>A.2.1 The system displays a warning that no one entered</p> <p>A.2.3 Return to the case of number 2</p>

3.2.8.2 Searching Event Owner

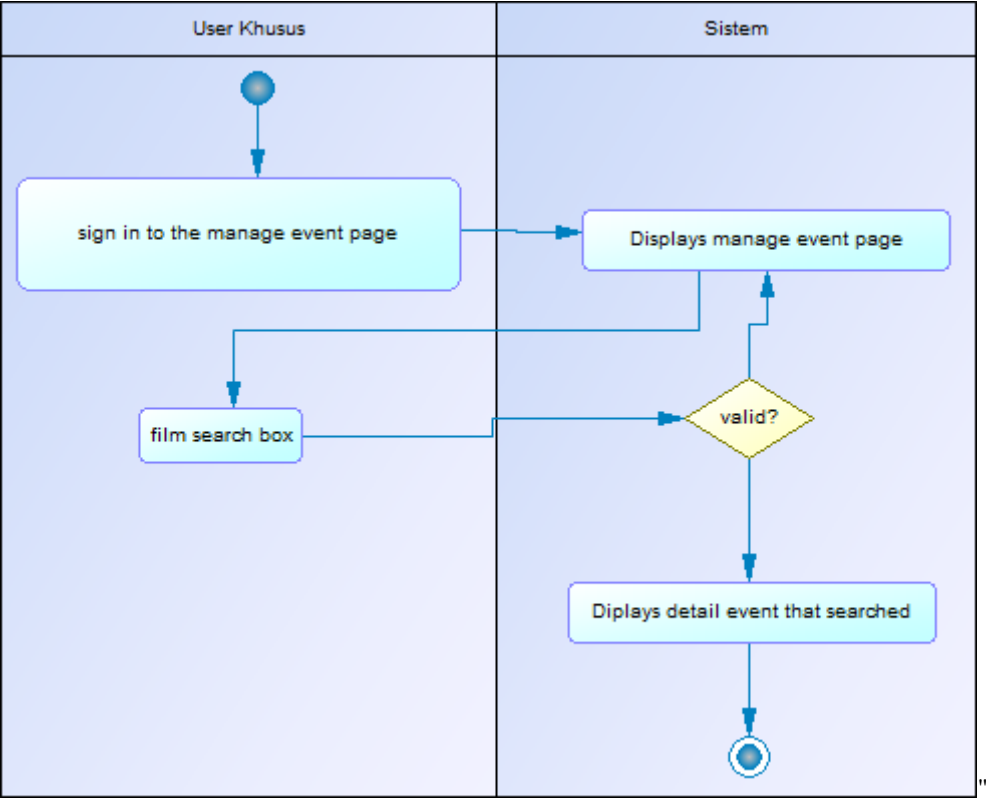


Figure 20. Activity Diagram "Searching event owner"

3.2.9 Function 8: Activate Reminder Participant

3.2.9.1 Scenario: Activate Reminder Participant

Use Case Code	UC 8
Use Case Code	Activate reminder participant
Actor	Special user

Department of Information Engineering ITS	SKPL-001	Page 34 from 57
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Description	Activate reminders via SMS and add a mobile phone number of participants
Relation	-
Pre-Condition	No participants
Post-Condition	Participants have been added
Main Flow	
Actor	System
1. Special User go to the add event page and add events, then click the button “reminder” 3. Special Users fill the form and click the button active	2. The system displays the form for adding a participant along with phone numbers 4. The system stores event and enable reminder A1. Click the button without adding active participants 5. Completed
A1. Click the button without adding active participants	
Actor	System

<p>A1.2. Special user receives a warning from the system by pressing the "Ok"</p>	<p>A.1.1 The system displays a warning that no one entered</p> <p>A.1.3 Return to the case of number 2</p>
---	--

3.2.9.2 Diagram Activities: Activate Reminder Participant

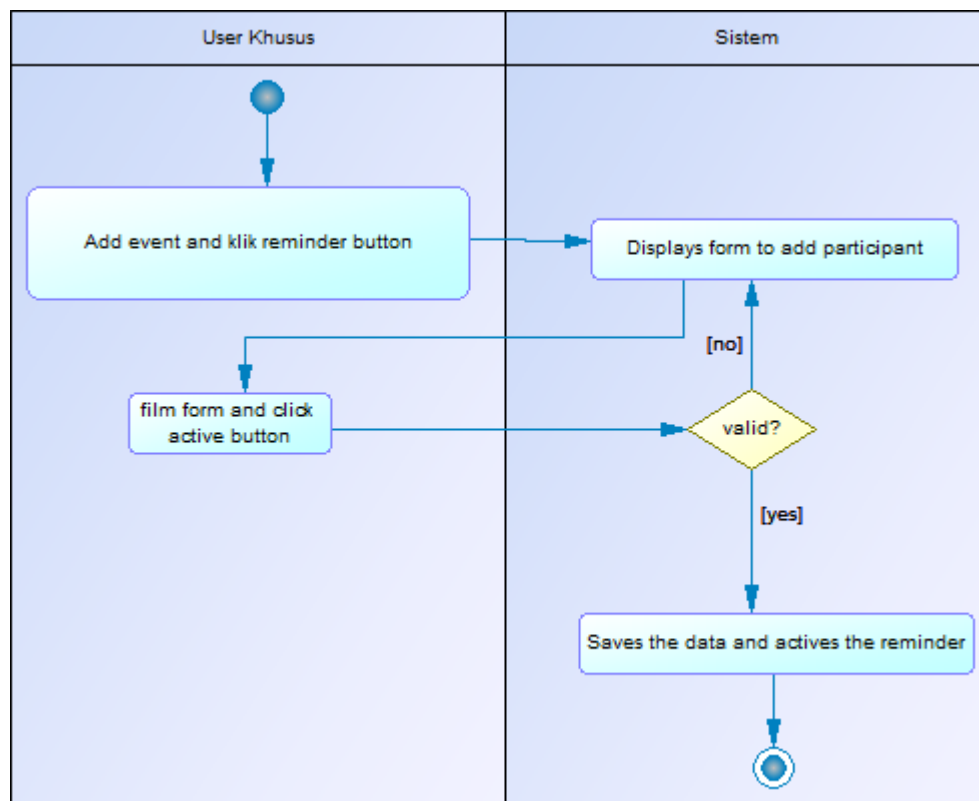


Figure 23. Activity Diagram "Activate Reminder Participant"

<p>Department of Information Engineering ITS</p>	<p>SKPL-001</p>	<p>Page 36 from 57</p>
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3.2.10 `Function 9: Seeing Calendar

3.2.10.1 Scenario: Seeing Calendar

Use Case Code	UC 9
Use Case Name	Seeing calendar
Actor	General User, User Custom, Admin
Description	Displays calendar and public event
Relation	-
Pre-Condition	Located on the home page (current month)
Post-Condition	See the calendar based on the option selected (Next month or prev month and / or to select the year) or to see the event on the calendar according to the date selected
Main Flow	
Actor	System
1.User General / Special User click the date to see the event or click the button next / prev month and / or Select year	2.Sistem displays calendar or event based on option that the users want A1. There are no events on the selected date

Department of Information Engineering ITS	SKPL-001	Page 37 from 57
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3.2.10.2 Diagram Activities: Seeing Calendar

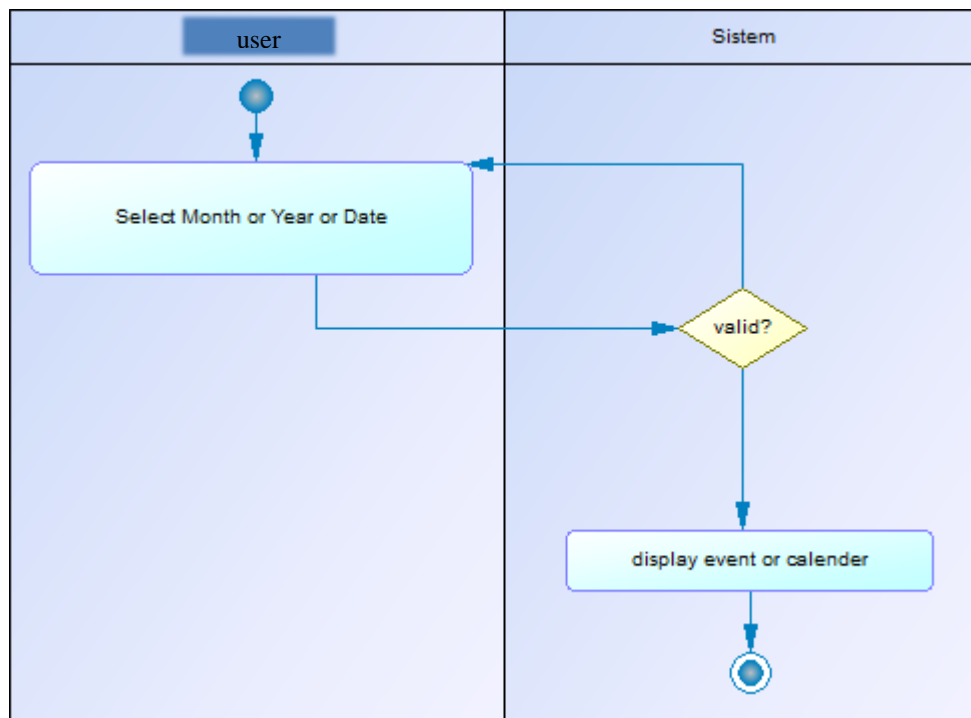


Figure 26. Activity Diagram "See Calendar"

3.2.11 `Function 10: Search Event

3.2.11.1 Scenario: Search Event

Use Case Code	UC 10
Use Case Code	Search event
Actor	General User, User Custom, Admin
Description	Looking for an event by word input
Relation	-

Department of Information Engineering ITS	SKPL-001	Page 39 from 57
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Pre-Condition	It does not look event is sought
Post-Condition	Seen event sought
Main Flow	
Actor	System
1. Users open the application calendar of events 3. User fills search box and click the search icon	2. System Displays the current page of month 4. The system displays event details sought A1. The event name is sought does not exist A2. Click the icon search without filling the search box 5. Completed
A1. The event name is sought does not exist	
Actor	System

<p>A1.2. The user receives a warning from the system by pressing the "Ok"</p>	<p>A.1.1 The system displays a warning that the data sought no</p> <p>A.1.3 Return to the case of number 2</p>
<p>A2. Click the icon search without filling the search box</p>	
<p>Actor</p>	<p>System</p>
<p>A2.2. The user receives a warning from the system by pressing the "Ok"</p>	<p>A.2.1 The system displays a warning that no one entered</p> <p>A.2.3 Return to the case of number 2</p>

3.2.11.2 Diagram Activities: Event

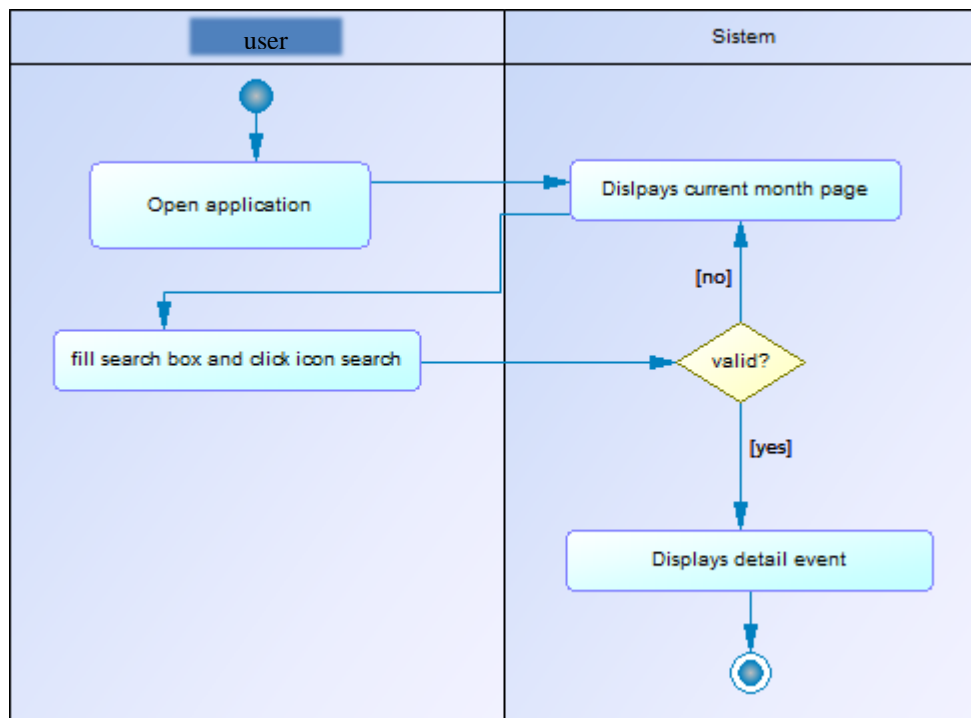


Figure 26. Activity Diagram "for Event"

3.2.12 Function 11: Add Special User

3.2.12.1 Scenario: Add Special User

Use Case Code	UC 11
Use Case Name	Add Special User
Actor	Admin (Kajur)
Description	Adding a special user to get permission for manage event

Department of Information Engineering ITS	SKPL-001	Page 42 from 57
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<p>A1.2. The user receives a warning from the system by pressing the "Ok"</p>	<p>A.1.1 The system displays a warning that the data entered is not valid</p> <p>A.1.3 Return to the case of number 2</p>
---	---

3.2.12.2 Activity Diagram: Adding User Special

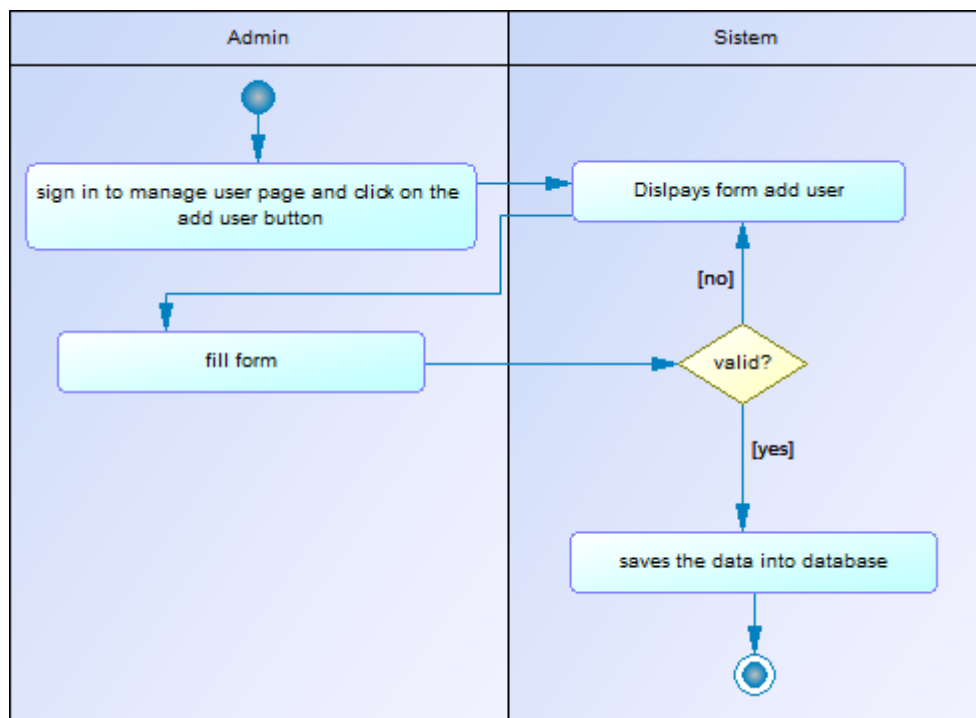


Figure 26. Activity Diagram "Adding User Special"

3.2.13 Function 12: Deleting Special User

3.2.13.1 Scenario: Deleting Special User

Use Case Code	UC 10
Use Case Name	Deleting Special user
Actor	Admin (Kajur)
Description	Delete the special user account
Relation	-
Pre-Condition	Special Users still exist
Post-Condition	Users have been deleted
Main Flow	
Actor	System
1. Admin click delete user button on the user to be removed	
	2. System remove an account from the database
	5. Completed

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3.2.13.2 Diagram Activities: Deleting User Special

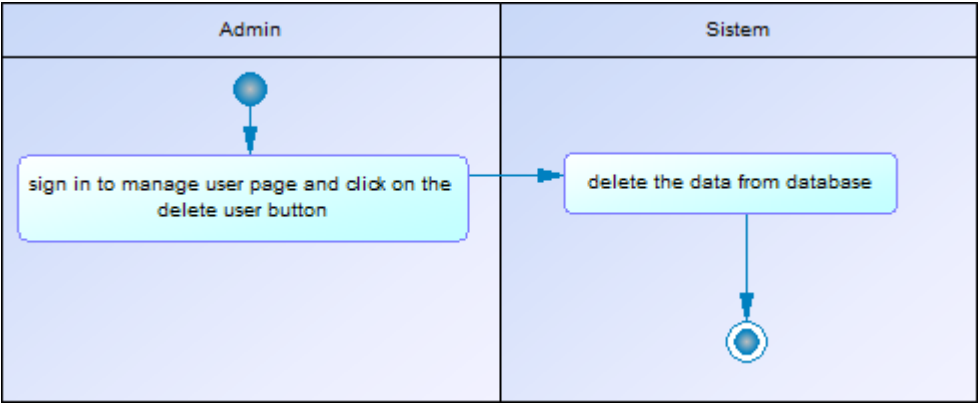


Figure 26. Activity Diagram "Delete User Special"

3.3 *Description of classes*

3.3.1 **Class diagram**

Department of Information Engineering ITS	SKPL-001	Page 47 from 57
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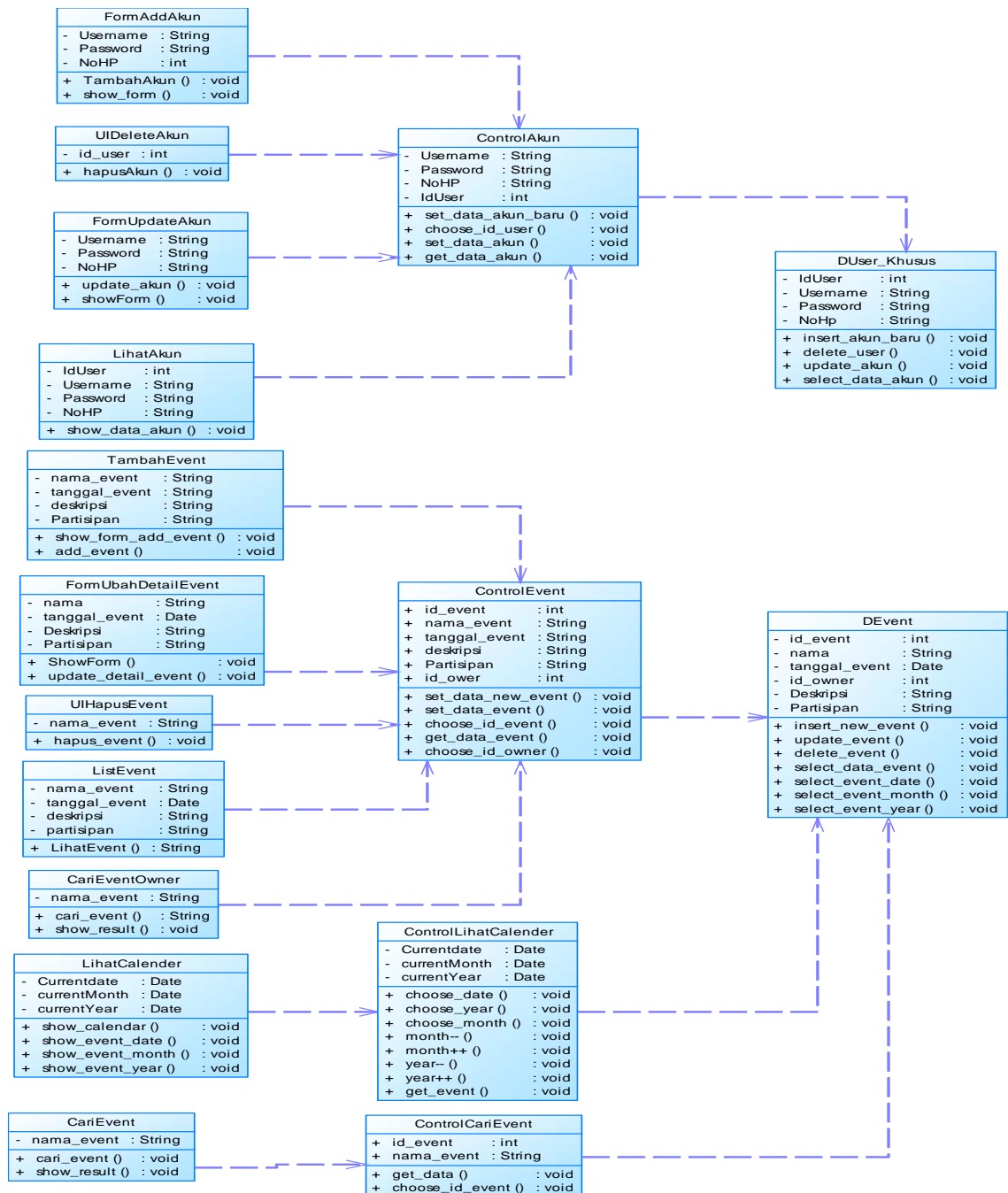


Figure 29. Class diagram

3.3.2 Description Domain Issues

Table 3 Class Description Domain Issues

No	Name	Method	Attribute	Task
.				

3.3.3 Class Description Controller

Table 4 Description of the Controlling Class

No	Nama	Metode	Atribut	Tugas
.				
		set_data_akun_baru()		Untuk menambahkan data akun baru
		choose_id_user		Untuk menangkap id user
		set_data_akun		Untuk mengirim data akun ke database
		get_data_akun		Untuk mendapatkan akun data dari database

		set_data_new_event		Untuk menambahkan data event baru ke database
		set_data_event		Untuk menambahkan data event ke database
		choose_id_event		Untuk menangkap id event
		get_data_event		Untuk mendapatkan data event yang diperlukan dari database
		choose_id_owner		Untuk menangkap id owner
		choose_date		Untuk menangkap tanggal
		choose_year		Untuk menangkap tahun
		choose_month		Untuk menangkap bulan
		month--		Untuk fungsi previous month
		month++		Untuk fungsi next month
		year--		Untuk fungsi previous year
		year++		Untuk fungsi next year

		get_event		Untuk mendapatkan event pada tanggal atau bulan atau tahun tersebut dari database
		get_data		Untuk mendapatkan data event dari database
		choose_id_event		Untuk menangkap id event

3.3.4 Description Entity Class (Persistent)



Figure 30. Physical Data Model

Table 5 Description Entity Class

No.	Nama	Atribut	Metode	Tugas
1	DUser_Khusus	idUser : int username : String password : String noHp : String	insert_akun_baru: void delete_user: void update_akun: void select_data_akun : void	
2	D_Event	id_event : int nama : String	insert_new_event : void update_event : void	

Department of Information Engineering ITS	SKPL-001	Page 51 from 57
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		tanggal_event : Date id_owner: int Deskripsi: String Partisipan : String	delete_event : void select_data_event : void select_event_date : void select_event_month : void select_event_year: void	
--	--	---	---	--

3.3.5 Description Class Boundary

Table 6 Description Class Boundary

No.	Name	Attribute	Method	Task
1.	FormAddAkun		TambahAkun()	Click button “Add Account”
2.	FormAddAkun		Show_Form ()	Showing the form
3.	UIDeleteAkun		hapusAkun()	Click button delete to remove account
4.	FormUpdateAkun		update_akun()	Click button “update account”
5.	FormUpdateAkun		ShowForm ()	Displays the form
6.	LihatAkun		Show_data_akun()	Click Button “Show data Account”
7.	TambahEvent		Show_form_add_event()	Show Form
8.	TambahEvent		Add_event()	Click button “Add Event” to adding event to the database

Department of Information Engineering ITS	SKPL-001	Page 52 from 57
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9.	FormUbahDetailEvent		ShowForm()	Display the form
10.	FormUbahDetailEvent		Update_detail_event()	Click button “update” to update the data
11	UIHapusEvent		Hapus_event()	Click button “delete” to remove the event
12.	ListEvent		LihatEvent()	Displays list of event
13.	CariEventOwner		Cari_event()	Fill search box dan click search icon button
14.	CariEventOwner		Show_result()	Displays the event owner
15.	LihatCalender		Show_calender()	Displays the calender
16.	LihatCalender		Show_event_date()	Displays event based on the date that clicked
17.	LihatCalender		Show_event_month()	Displays event based on the month that clicked
18.	LihatCalender		Show_event_year()	Displays event based on the year that clicked
19.	CariEvent		Cari_event()	Fill search box and click search icon button
20.	CariEvent		Show_result()	Displays the event that you search

3.4 Data Flow Diagram

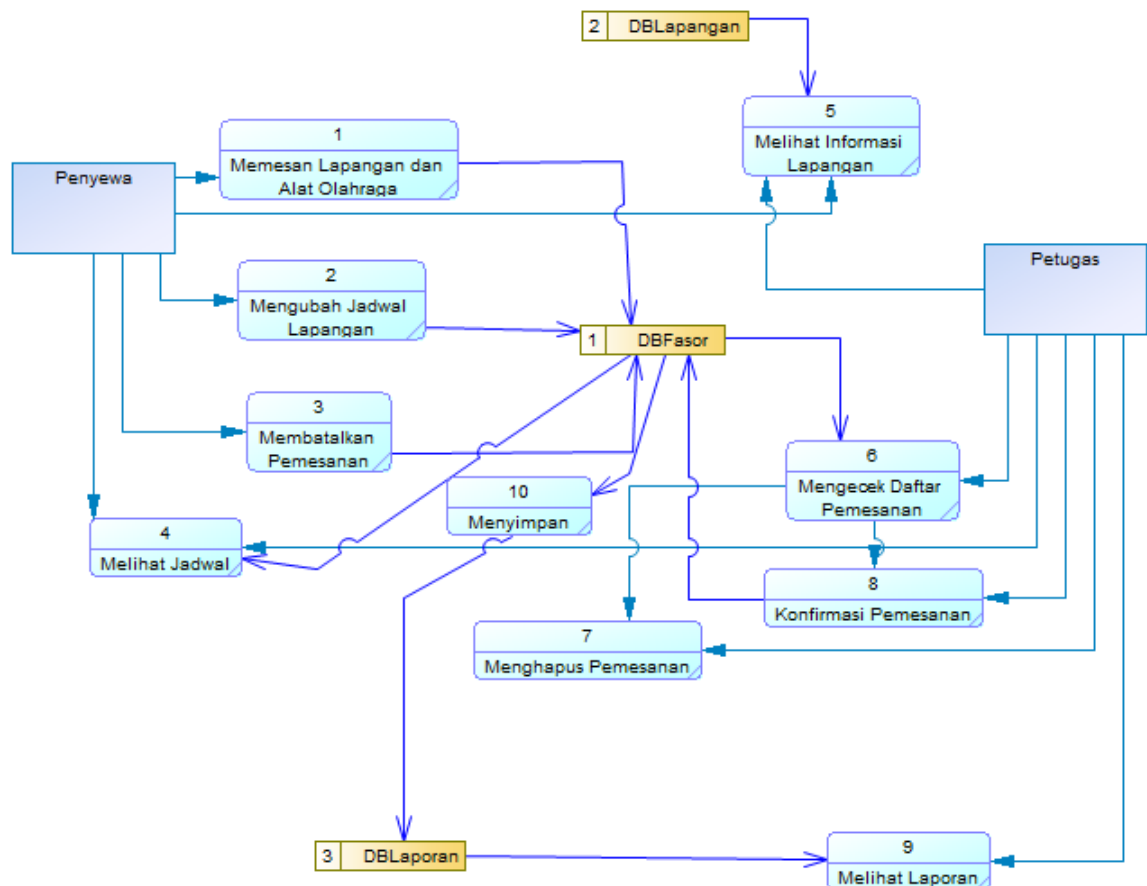


Figure 31. Data Flow Diagram

3.5 Non-Functional Requirement

Table 7 Description of Non-Functional Requirements

SKPL-Id	Parameter	Needs
SKPL-N01	availability	These applications must be able to operate continuously for 24 hours, because the

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		application is used by sports facilities to carry out all activities within the business process.
SKPL-N02	Reliability	<p>This application must be built with the highest possible reliability though not necessarily as high reliability of a critical application. Failures are tolerated approximately 10%. Tinggidiharapkan Dengankahandalan that these applications can be used successfully in times of need.</p> <p>Reliability that is owned by this application will also greatly depend on some external things, such as the reliability of telecommunications networks used for Internet access, reliability of electric power systems are used, etc.</p>
SKPL-N03	ergonomy	This application harusmemilikinilaiergonomi / kenyamanan dipakai high for the user. The application will be built with a user interface that is easy to understand, beautiful sees, consistent, easy to operate and not confusing.
SKPL-N04	portability	SIFASOR can be implemented more than 100 computers.
SKPL-N05	memory	Application database can hold as much as 160 GB max
SKPL-N06	Response time	The database is accessible within 2 seconds.
SKPL-n07	safety	The network consists of a firewall
SKPL-N08	Security	This application has access rights tertentubagitiapaktornya. encrypted passwords

SKPL-N09	language of communication	Using Indonesian
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3.6 *limitations Design*

- a. Only compatible with HTML version 1.1 or earlier

3.7 *Needs summary*

3.7.1 Summary Functional Requirements

Table 8 Summary Functional Requirements

SKPL-Id	Information
SKPL-F000	Seeing Information WACA
SKPL-F001	See Schedule Fields Usage
SKPL-F002	Seed Sports Facilities Condition
SKPL-F003	Renewed Order Status
SKPL-F004	Sign Up For Tenants
SKPL-F005	booked Field
SKPL-F006	cancel your reservation
SKPL-F007	Borrowing Sports Equipment

Department of Information Engineering ITS	SKPL-001	Page 56 from 57
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SKPL-F008	Checking List Booking
SKPL-F009	cancel your reservation
SKPL-F010	Loan check Sports Equipment
SKPL-F011	See Transaction Details
SKPL-F012	Seeing Reports Hire
SKPL-F013	See Financial Statements

3.7.2 Summary of Non-Functional Requirements

Table 9. Summary of Non-Functional Requirements

SKPL-Id	Information
SKPL-NF001	Using a browser with HTML version 1.1 or earlier
SKPL-NF002	Have a username and password
SKPL-NF005	The currency used is Rupiah

Department of Information Engineering ITS	SKPL-001	Page 57 from 57
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