

DOCUMENT
SOFTWARE REQUIREMENT SPESIFICATION

ONLINE SCHOLARSHIP
ONLINE SCHOLARSHIP SUBMISSION FOR STUDENT

for:

Department of Informatics ITS


Prepared by:

Ahmad Ismail 5114100032

Irfan Hanif 5114100177

Departmen of Informatics - Institut Teknologi Sepuluh Nopember

ITS Campus, Sukolilo, Surabaya

	Department of Informatics ITS	Document Number		Page
		<i>SRS-001</i>		1/#52
		Revisi	-	01 11 2016

DAFTAR PERUBAHAN

Revisi	Deskripsi
A	
B	
C	
D	
E	
F	
G	

INDEX TGL	-	A	B	C	D	E	F	G
Ditulis oleh								
Diperiksa oleh								
Disetujui oleh								

Daftar Halaman Perubahan

Halaman	Revisi	Halaman	Revisi

Halaman ini sengaja dikosongkan.

Department of Informatics ITS	SRS-001	Page 4 from 48
<p>This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.</p>		

Department of Informatics ITS	SRS-001	Page 5 from 48
<p>This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.</p>		

Daftar Tabel

[Tabel 1 Aturan Penamaan dan Penomoran](#)

[Tabel 2 Karakteristik Pengguna](#)

[Tabel 3 Deskripsi Kelas Domain Persoalan](#)

[Tabel 4 Deskripsi Kelas Pengendali](#)

[Tabel 5 Deskripsi Kelas *Entity*](#)

[Tabel 6 Deskripsi Kelas *Boundary*](#)

[Tabel 7 Deskripsi Kebutuhan Non Fungsional](#)

[Tabel 8 Ringkasan Kebutuhan Fungsional](#)

[Tabel 9 Ringkasan Kebutuhan Non Fungsional](#)

Department of Informatics ITS	SRS-001	Page 6 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

1 Pendahuluan

1.1 Purpose of Writing The Document

This Document contains Software Requirement Specification (SRS) for Online Scholarship. The purpose of this document is giving general picture about the software that will build. Either in the form of general picture or detailed and completed explainable.

This document will be used as reference in the process of development and material for evaluation either in the process of software development or the end of software development. With existence of this document we are expecting the development of this software will be more directed especially for Online Scholarship developer.

1.2 Scope of The Problem

The software is built is Online Scholarship in ITS, which is a software in the form of a desktop information system that is used to serve the filing and registration of a scholarship at the Department of Information ITS. The built system can do the following things:

- 1) Give Announcement about scholarship in Department of Informatics ITS
- 2) Memberikan kemudahan Give easier access for Departemen of Informatics ITS in giving judgment of scholarship files

With existence of this system we expect give more easier experience of administration bussiness in Departmen of Informatics. Either for student or the administrator themselves.

1.3 Definition and Terms

Berikut adalah daftar definisi dan istilah penting yang digunakan dalam dokumen SKPL ini:

- o SRS : *Software Requirements Specification*, atau
- o IEEE : *Institute of Electrical and Electronics Engineering*
- o ANSI : *American National Standard Institute*
- o TBD : *To Be Defined*
- o LAN : *Local Area Network*

Department of Informatics ITS	SRS-001	Page 7 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

1.4 Numbering and Naming Rules

This SRS Document is using many types of naming and numbering rules which is different for many certain parts. Naming and numbering rules that is used is based on following tables:

Tabel 1 Numbering and Naming Rules

Hal/Bagian	Aturan Penomoran/Penamaan
Functional Requirement	SKPL-FXX : Showing Functional Requirement in-XX
Non Functional Requirement	SKPL-NFXX : Showing Non Functional Requirement in-XX
Summary of Functional Requirement	SKPL-Fxxx where xxx 3 digits integer starts from 000
Summary of Non Functional Requirement	SKPL-NFxxx where xxx 3 digits integer starts from 000

1.5 Referensi

Dokumen-dokumen Documents that used as references:

- 1) Dokumen *Software Requirement Specification (SRS)* – IEEE tahun 1999 oleh Karl E. Wiegers.
- 2) Panduan Penggunaan dan Pengisian Spesifikasi Perangkat Lunak (SKPL), Jurusan Teknik Informatika, Institut Teknologi Sepuluh Nopember.
- 3) Panduan Penggunaan dan Pengisian Spesifikasi Perangkat Lunak (SKPL), Jurusan Teknik Informatika, Institut Teknologi Bandung.

1.6 Document Summary

Dokumen ini secara garis besar terdiri dari tiga bab dengan perincian sebagai berikut:

- Chapter 1 Preface, is a preliminary of this SRS document that contains purpose of writing this document, scope of the problems, and also contains definition and terms what used and general description of the document.
- Chapter 2 General Description of The Software, defined the perspective of software product and assumption and dependency that used in Online Scholarship System.
- Chapter 3 Detailed Requirement Description, that covering external interface, functional requirement, performance requirement, design constraint, attributes software system, and other requirement from Online Scholarship System.

Department of Informatics ITS	SRS-001	Page 8 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

2 Deskripsi Umum Perangkat Lunak

2.1 Deskripsi Umum Sistem

Scholarship Online system is a system that aims to facilitate the filing system and scholarship announcements on the scope of the Department of Information ITS. Broadly speaking function, the system involves two actors. Students and administrators.

Students can register themselves on the system to complete the data that will be a source of scholarship consideration later. After registering Also, students can search for available scholarships once register themselves for the scholarship.

Administrator, hereinafter abbreviated admin in this case is Department employees assigned to monitor out scholarships at the college. Admin can post the latest scholarship and announcements pengumuman about scholarships. Admin can also see the personal data of students and student enrollment data.

2.2 Fungsi Produk

Software Online Scholarship has several major functions, among others:

2.3 Karakteristik Pengguna

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

No	Kategori Pengguna	Tugas	Hak Akses ke aplikasi	Kemampuan yang harus dimiliki
1.	Student	Look after all the scholarships	Can post about announcement and check files of student scholarship submissions.	1. Being able to operate computer 2. Understand about post and download process 3. Being able to operate website
2.	Administrator	Access information system	Be able to look after scholarships and register for it	1. Being able to operate computer 2. Being able to use internet

2.4 Constraint

Online Scholarship system has following constraints :

1. Online Scholarship System made with HTML, PHP, and JavaScript language.
2. Interface has to be simple menu view.

Department of Informatics ITS	SRS-001	Page 9 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

3. Hardware constraints like, limited memory capacity, limited storage capacity, and text and number input only with some characters. Input could be datas and etc.
4. Third party software to be use is DBMS MYSQL, XAMPP, Notepad++ dan Sublime text 3.

2.5 *Operation Environment*

This Online Scholarship system will run in the following spesification:

Platform sistem operasi : Microsoft Windows / Linux
 Versi sistem operasi : Windows Server 2003/XP SP2/Vista/7/8 / Linux OS
 DBMS : MYSQL
 Kerangka kerja : HTML dan PHP

3 General Requirement Description

3.1 *External Interface Requirement*

3.1.1 User Interface

Online Scholarship System uses Web user interface. User can input with keyboard and mouse with *Mozilla Firefox* or *Google Chrome* browser.

3.1.2 Hardware Interface

Online Scholarship system runs in computer server. All Online Scholarship installed computer have to connected each other inside LAN.

3.1.3 Software Interface

Sistem Pemberkasan Beasiswa Online adalah program yang akan dibangun menggunakan bahasa HTML, PHP, MYSQL dan akan berjalan pada browser *Mozilla Firefox* atau *Google Chrome*.

Online Scholarship system is a software that will build with HTML, PHP, and MYSQL language and runs with *Google Chrome* or *Mozilla Firefox* browser.

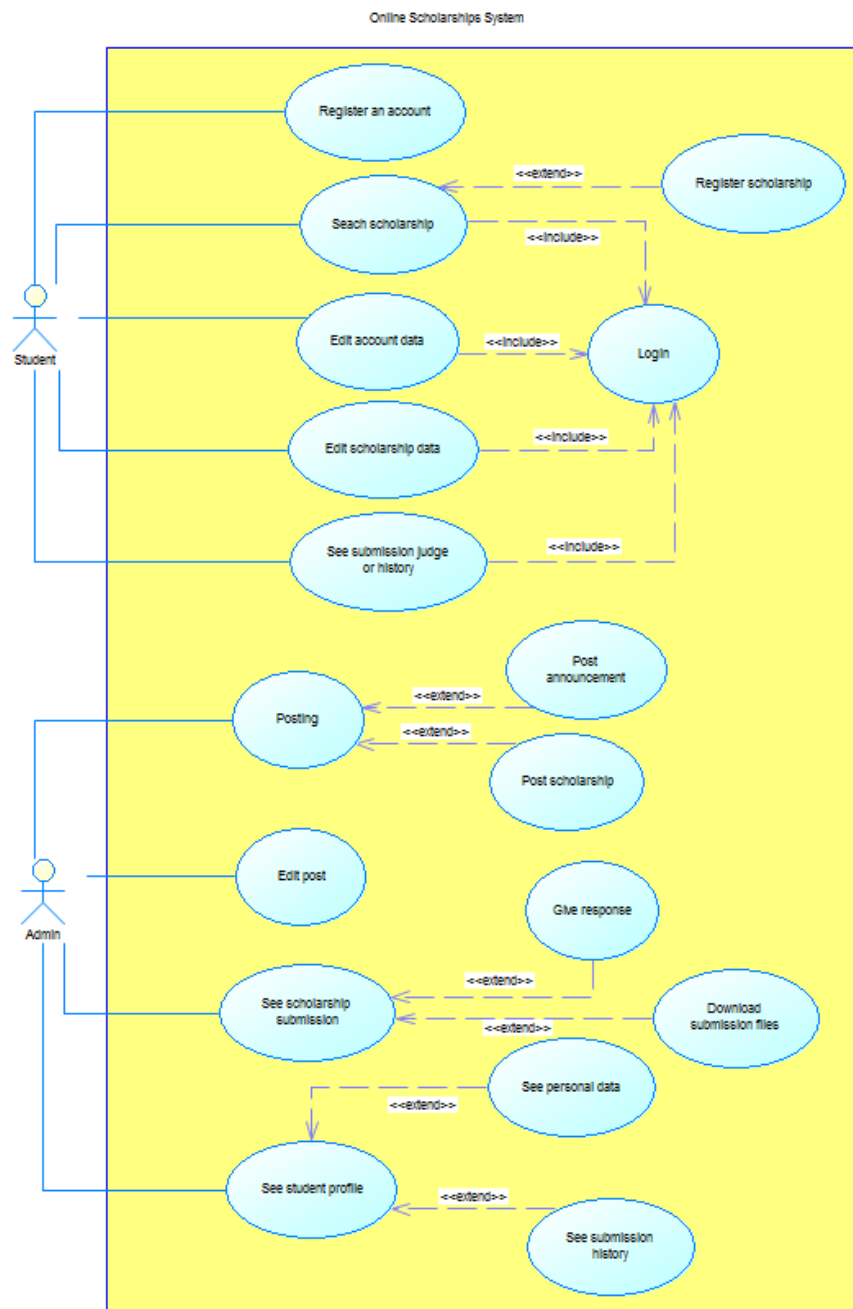
3.1.4 Communication Interface

Online Scholarship system is a system that connected to the internet.

Department of Informatics ITS	SRS-001	Page 10 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Enginnering Laboratory, Department of Informatics.		

3.2 Deskripsi Fungsional

3.2.1 Use Case Diagram



Gambar 1. Use Case Diagram

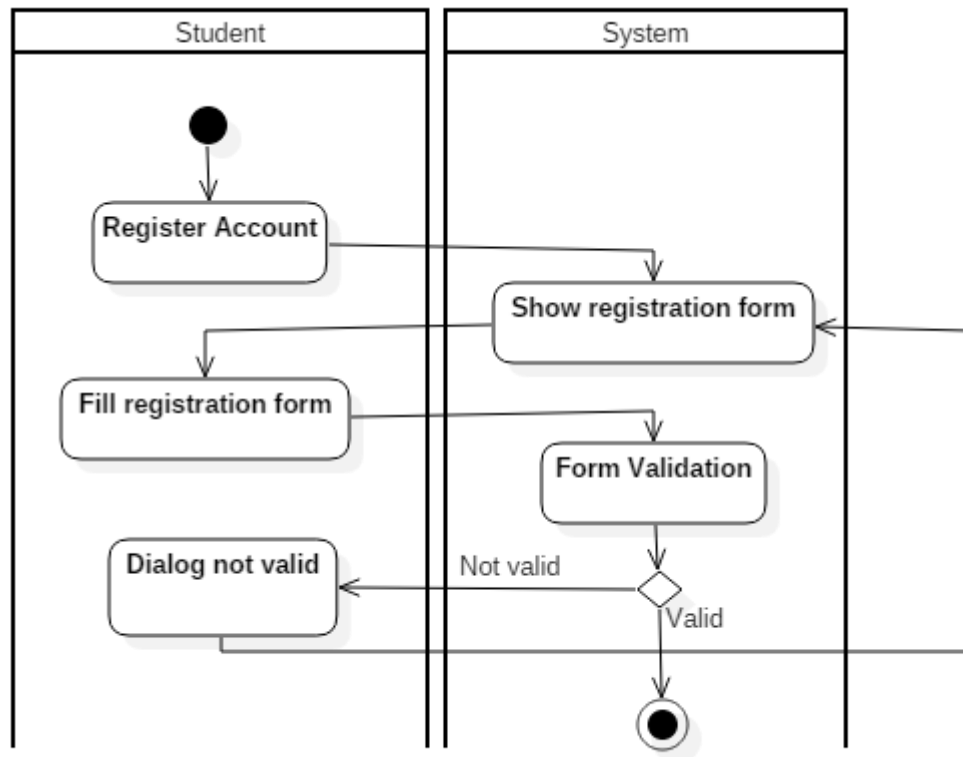
Department of Informatics ITS	SRS-001	Page 11 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

3.2.2 Function 1 : Register Student Account

3.2.2.1 Scenario: Register Student Account

Use Case Code	UC01
Use Case Name	Register an Account
Description	In this use case, student can register his/her account. After register account, student can see any scholarship, then register the scholarship.
Actor	Student
Pre-Condition	Student don't have an account
Normal Course	
Actor	System
1. Student click on "Register an account" 3. Student fill the registration form	2. System show registration form 4. System give validation confirmation A1. if data not valid 5. Finish
Alternate Condition	
A1. If data not valid	
Actor	System
A1.2. Student receive the message that show by system with click "OK"	A1.1. System show warning that the data not valid A1.3. System back to number 2
Post-Condition	Student have an account and inputed to the database
Exceptions	-

3.2.2.2 Activity Diagram: Register student Account



Gambar 2. Activity Diagram “Register Account”

Department of Informatics ITS	SRS-001	Page 13 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

3.2.3 Function 2: Search for Scholarship

3.2.3.1 Scenario: Search for Scholarship

Use Case Code	UC02
Use Case Name	Search Scholarship
Description	In this use case, registered student can search any updated scholarship, then he/she decided which scholarship that he/she wanted to join.
Relation	Extend with UC Register Scholarship Include with UC Login
Actor	Student
Pre-Condition	Student not find any scholarship
Normal Course	
Actor	System
1. Student go to search scholarship section 3. Student fill the search form	2. System display search forms 4. System display scholarship based on student's search A1. if scholarship data not found 5. System display the scholarship 6. Finish
Alternate Condition	
A1. If scholarship data not found	
Actor	System
A1.2. Student receive the message that show by system with click "OK"	A1.1. System show warning that the scholarship data not found A1.3. System back to number 2
Post-Condition	Student found any scholarship
Exceptions	Student don't have an account

3.2.3.2 Activity Diagram: Search for scholarship

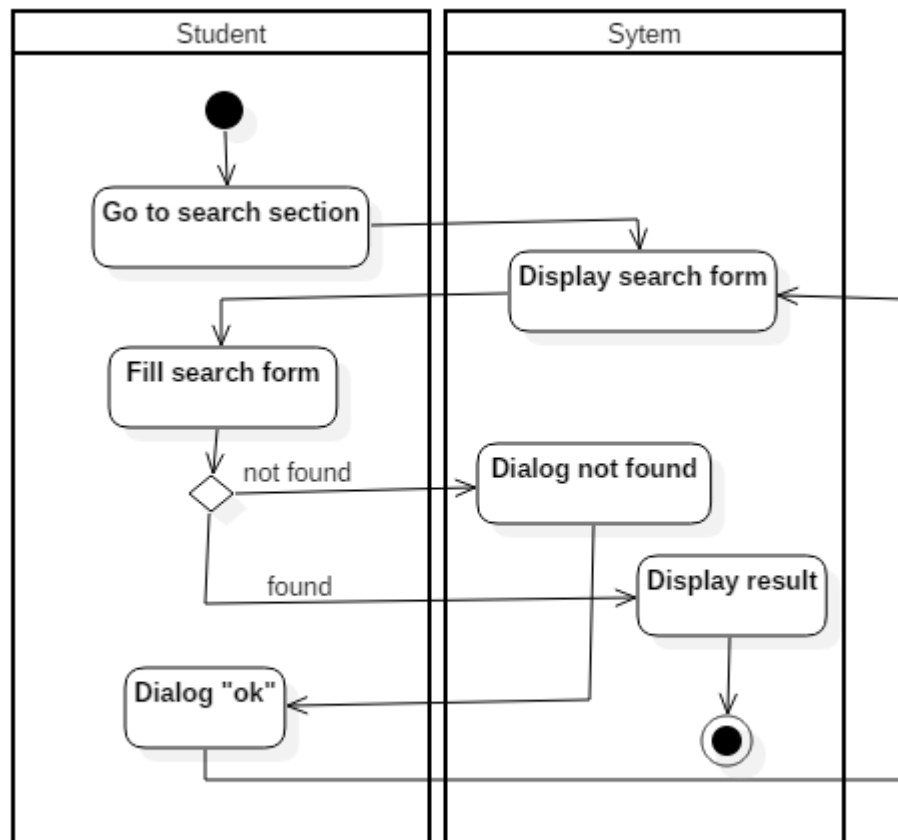


Image 3. Activity Diagram “Search for scholarship”

Department of Informatics ITS	SRS-001	Page 15 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

3.2.4 Function 3: Register for Scholarship

3.2.4.1 Scenario: Register for Scholarship

x

Use Case Code	UC03
Use Case Name	Register Scholarship
Description	In this use case, student can register the scholarship and got it
Relation	Include with UC Login
Actor	Student
Pre-Condition	Student not registered to any scholarship
Normal Course	
Actor	System
1. Student go to page register scholarship 3. Student fill the register form	2. System display register forms 4. System form validation A1. if scholarship data unvalid 5. Input file to the database 6. Finish
Alternate Condition	
A1. If scholarship data not completed	
Actor	System
A1.2. Student receive the message that show by system with click "OK" A1.3. System back to number 2	A1.1. System show warning that the scholarship data unvalid
Post-Condition	Student registered on a scholarship
Exceptions	Student don't have an account

3.2.4.2 Activity Diagram: Register for scholarship

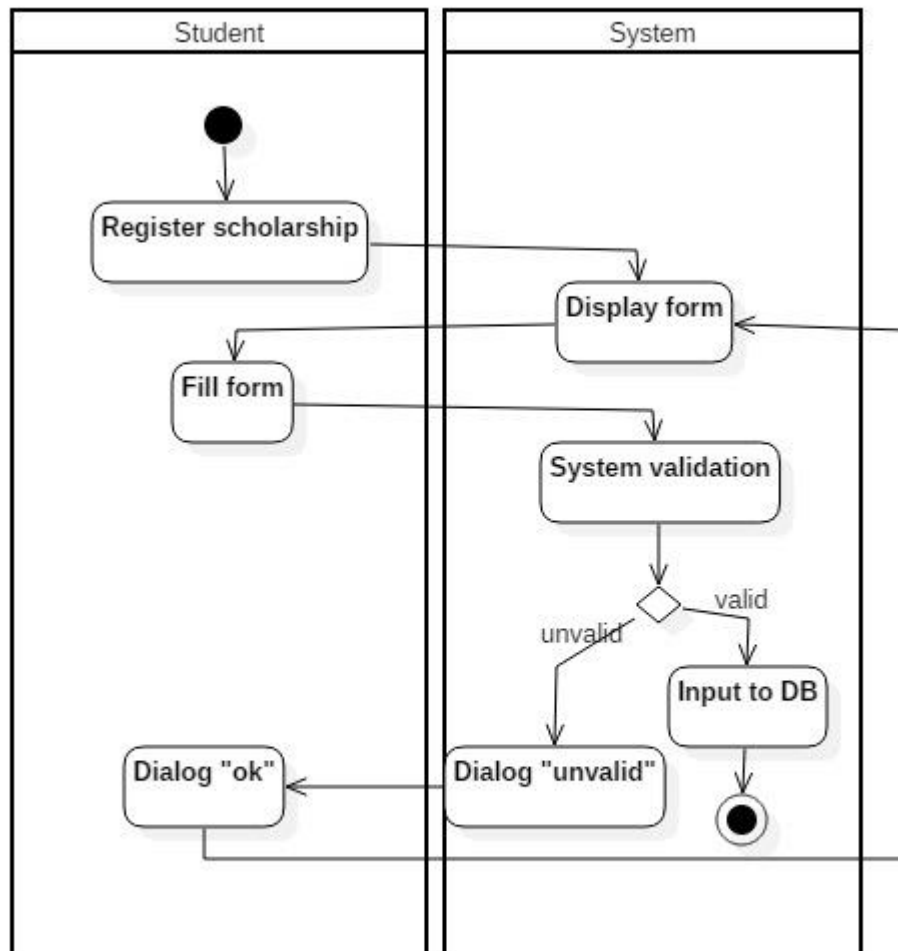


Image 4. Activity Diagram “Register for scholarship”

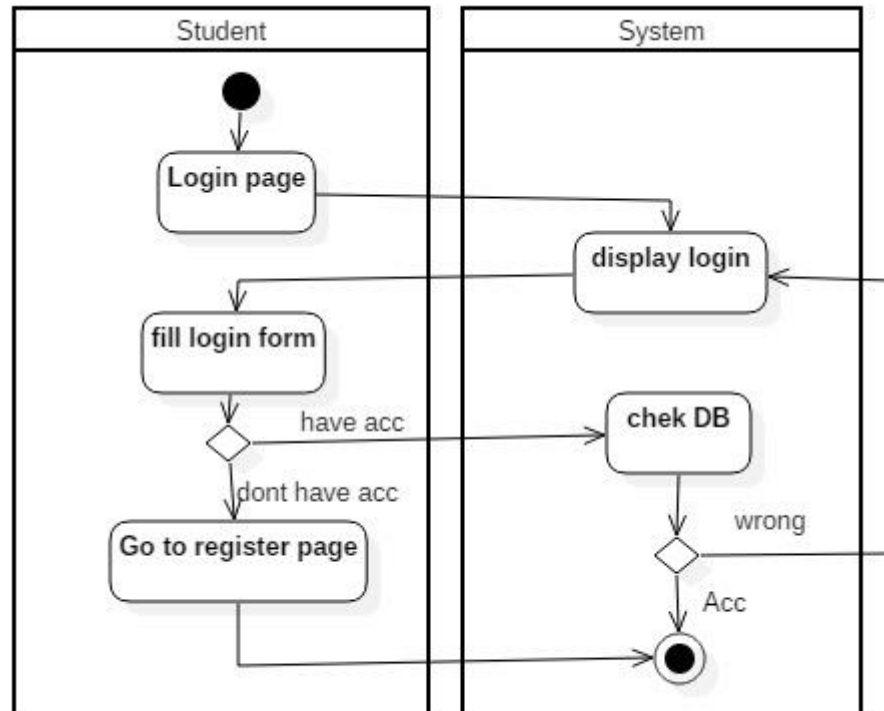
Department of Informatics ITS	SRS-001	Page 17 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

3.2.5 Function 4: Student Login

3.2.5.1 Scenario: Student Login

Use Case Code	UC04
Use Case Name	Login
Description	In this use case, the student login to the information system with ID and password that registered for authentication
Actor	Student
Pre-Condition	Student can't get in to the system
Normal Course	
Actor	System
1. Student go to login page 3. Student fill the register form A1. Student don't have an account	2. System display login form 4. System check to the database A2. Student input wrong password/username 5. finish
Alternate Condition	
A1. Student don't have an account	
Actor	System
	A1.1. System go to Register an account page
A2. Student input wrong password/username	
	A2.1. System back to step 2
Post-Condition	Student can get in to the system
Exceptions	-

3.2.5.2 Activity Diagram: Login



Gambar 5. Activity Diagram “Login”

3.2.6 Fuction 5: Edit Student Account Data

3.2.6.1 Scenario: Edit Student Account Data

Use Case Code	UC05
Use Case Name	Edit Account Data
Description	In this use case, registered student can edit his/her data like change name, address, and each other
Relation	Include with UC Login
Actor	Student
Pre-Condition	Data not updated to database
Normal Course	
Actor	System
1. User click on "edit account data"	2. System show edit data forms and current data
3. User edit the data	4. System update to the database
Alternate Condition	
Actor	System
-	-
Post-Condition	Data updated to the database
Exceptions	Failed edit the data

3.2.6.2 Activity Diagram: Edit student account data

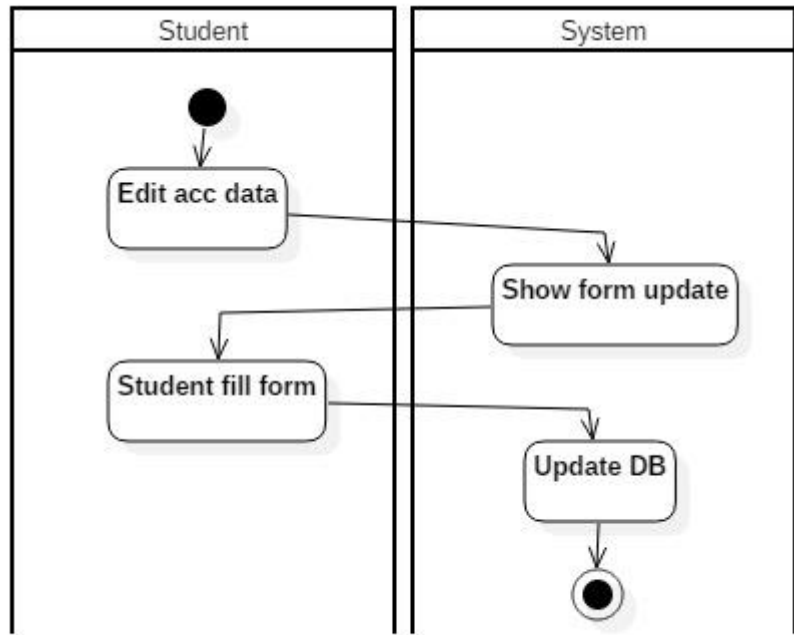


Image 6. Activity Diagram “Edit student account data”

3.2.7 Fungsi 6: Edit Scholarship Student Data

3.2.7.1 Scenario: Edit Scholarship Student Data

Use Case Code	UC06
Use Case Name	Edit Scholarship data
Description	In this use case, the student can edit scholarship data like the score, the parent's fee, or each other.
Relation	Include with UC Login
Actor	Student
Pre-Condition	Scholarship data not updated
Normal Course	
Actor	System
1. Student click on "edit scholarship data"	2. System display edit scholarship form and current data
3. Student fill edit scholarship form	4. System update to database
Alternate Condition	
Actor	System
-	-
Post-Condition	Scholarship data updated
Exceptions	-

3.2.7.2 Activity Diagram: Edit scholarship student data

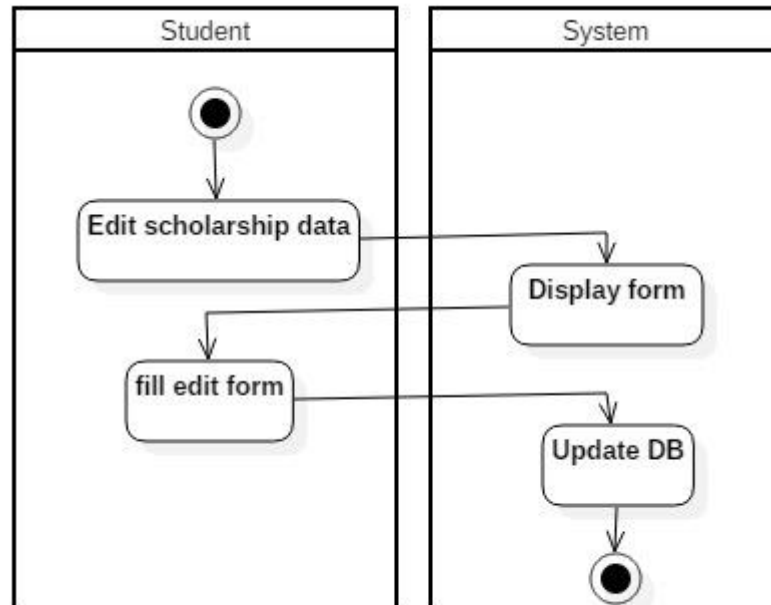


Image 7. Diagram Aktivitas “Edit scholarship student data”

3.2.8 Function 7: See Student Submission History

3.2.8.1 Scenario: See Student Submission History

Use Case Code	UC07
Use Case Name	See Submission History
Description	In this use case, the student can see which scholarship that registered or not
Relation	Include with UC Login
Actor	Student
Pre-Condition	Student not see submission history
Normal Course	
Actor	System
1. Student go to See submission history page	2. System display submission history 3. Finish
Alternate Condition	
Actor	System
-	-
Post-Condition	Student see submission history
Exceptions	-

3.2.8.2 Diagram Aktivitas: Mengecek Daftar Pemesanan Lapangan dan Alat Olahraga

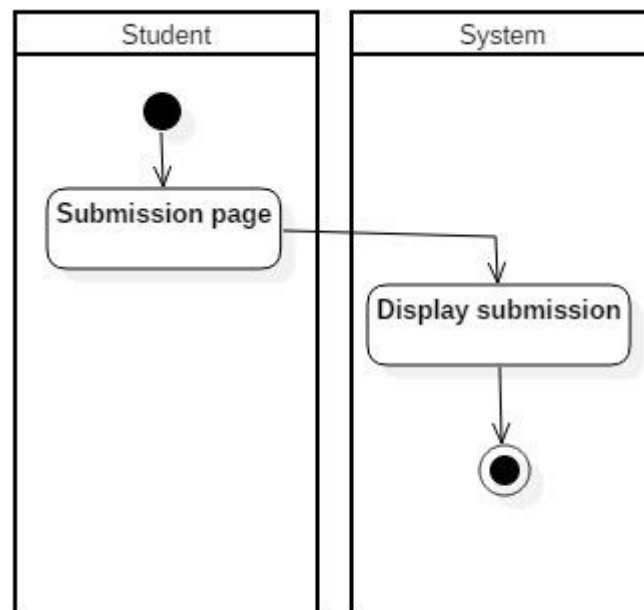


Image 8. Activity Diagram “See submission history”

Department of Informatics ITS	SRS-001	Page 25 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

3.2.9 Fungsi 8 : Admin Posting

3.2.9.1 Scenario: Admin Posting

Use Case Code	UC08
Use Case Name	Posting
Description	In this use case, Admin can post any announcement
Relation	Extend with UC Post Announcement Extend with UC Post Scholarship
Actor	Admin
Pre-Condition	Announcement not posted
Normal Course	
Actor	System
1. Admin go to posting page 3. Admin choose one A1. Choose post announcement A2. Choose post scholarship 5. Admin Posting	2. System give choose between post announcement or post scholarship. 4. System display posting form 6. System input to the scholarship database
Alternate Condition	
A1. Choose post announcement	
Actor	System
	A1.1. System go to UC09
A2. Choose post scholarship	
Actor	System
	A2.1. System go to UC10
Post-Condition	Announcement posted
Exceptions	-

3.2.9.2 Activity Diagram: Admin posting

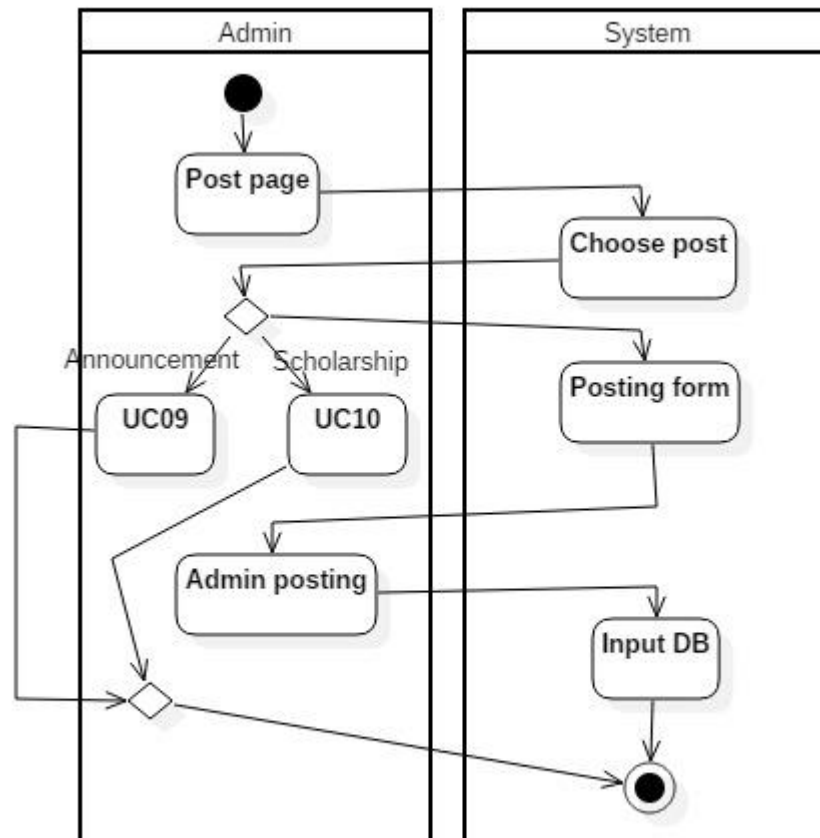


Image 9. Diagram Activity “Admin posting”

Department of Informatics ITS	SRS-001	Page 27 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

3.2.10 Function 9: Admin Post Announcement

3.2.10.1 Scenario: Admin Post Announcement

Use Case Code	UC09
Use Case Name	Post announcement
Description	In this use case, Admin can post any announcement
Actor	Admin
Pre-Condition	Announcement not posted
Normal Course	
Actor	System
1. Admin go to post announcement page 3. Admin Posting	2. System display posting form and tags students 4. System input to the scholarship database
Alternate Condition	
Actor	System
-	-
Post-Condition	Announcement posted
Exceptions	-

3.2.10.2 Activity Diagram: Admin post announcement

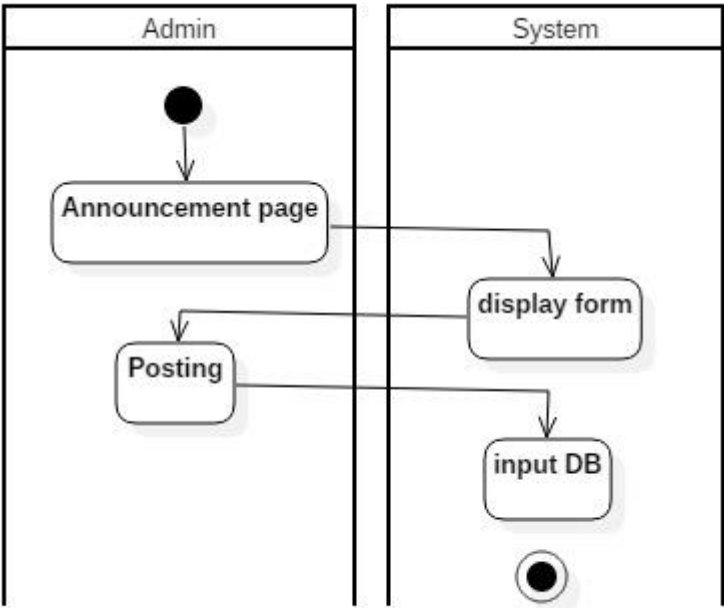


Image 10. Activity Diagram “Admin post announcement”

3.2.11. Fucntion 10: Post Scholarship

3.2.11.1. Scenario: Post Scholarship

Use Case Code	UC10
Use Case Name	Post Scholarship
Description	In this use case, Admin can post any scholarship announcement
Actor	Admin
Pre-Condition	Scholarship announcement not posted
Normal Course	
Actor	System
1. Admin go to post scholarship page 3. Admin Posting	2. System display posting form 4. System input to the scholarship database
Alternate Condition	
Actor	System
-	-
Post-Condition	Scholarship announcement posted
Exceptions	-

3.2.11.2. Activity Diagram: Post scholarship

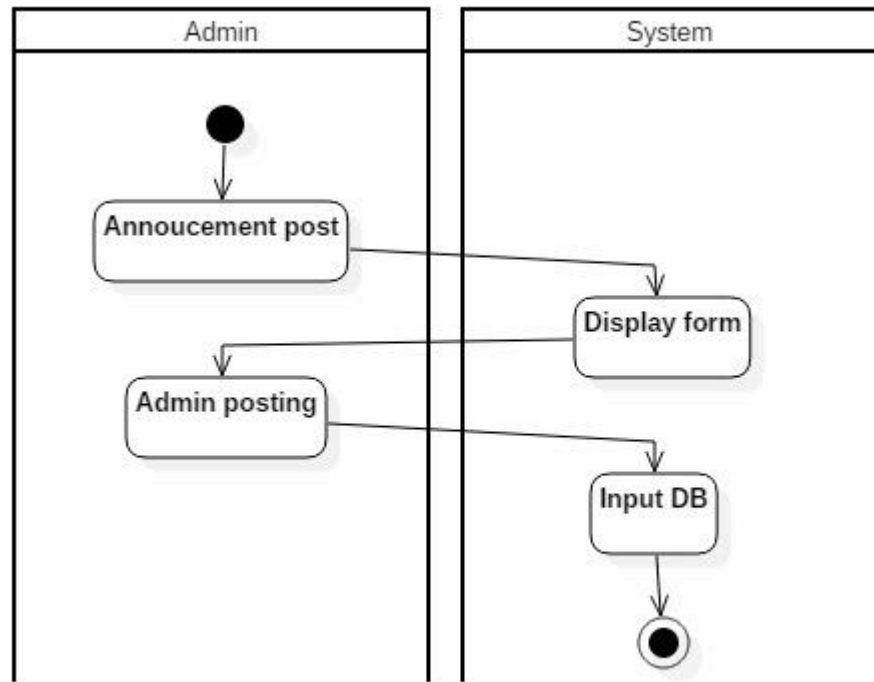


Image 11 Activity Diagram “Post scholarship”

Department of Informatics ITS	SRS-001	Page 31 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

3.2.12. Function 11: Edit Post

3.2.12.1. Scenario: Edit Post

Use Case Code	UC11
Use Case Name	Edit Post
Description	In this use case, Admin can edit the post if there are an update about scholarship
Actor	Admin
Pre-Condition	Scholarship announcement not updated
Normal Course	
Actor	System
1. Choose the post to edit 3. Admin edit the post	2. System display edit post form 4. System update to the scholarship database
Alternate Condition	
Actor	System
-	-
Post-Condition	Scholarship updated
Exceptions	-

3.2.12.2. Activity Diagram: Edit Post

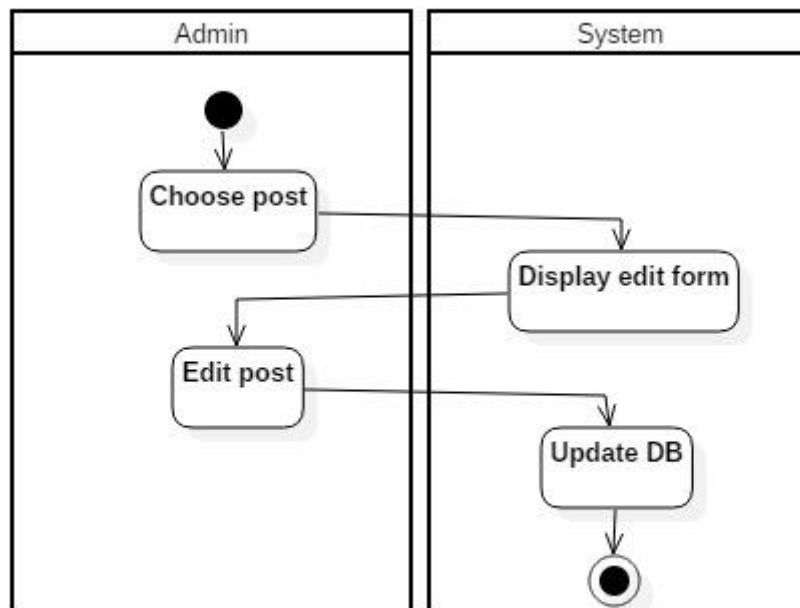


Image 12. Activity Diagram “Edit post”

3.2.13. Function 12: See Scholarship History

3.2.13.1. Scenario: See Scholarship History

Use Case Code	UC12
Use Case Name	See Scholarship History
Description	In this use case, Admin can see all scholarship history submission
Relation	Extend with UC Give Response and Download Submission Files
Actor	Admin
Pre-Condition	Admin not see submission history
Normal Course	
Actor	System
1. Admin go to See scholarship history page history submission	2. System display scholarship history 3. Finish
Alternate Condition	
Actor	System
-	-
Post-Condition	Admin see scholarship history
Exceptions	-

3.2.13.2. Activity Diagram: See Scholarship Submission History

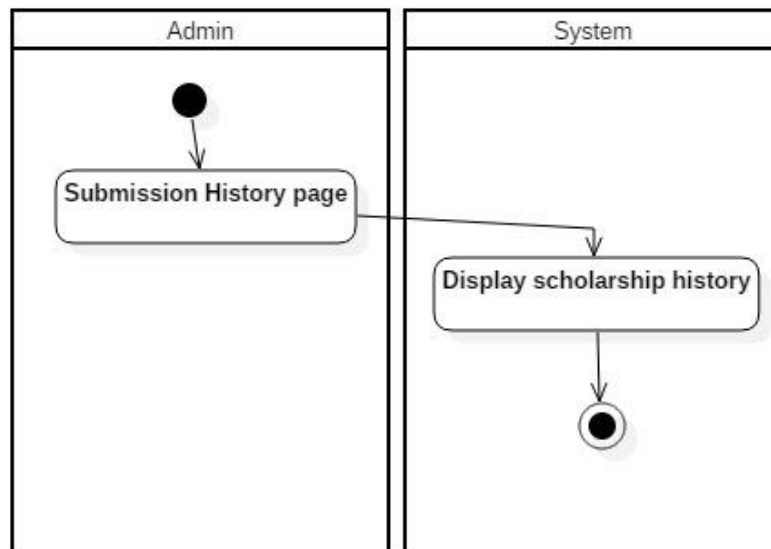


Image 13. Activity Diagram “See Scholarship Submission History”

3.2.14. Function 13: Give Response

3.2.14.1. Scenario: Give Response

Use Case Code	UC13
Use Case Name	Give response
Description	In this use case, Admin can give response to all scholarship submission
Actor	Admin
Pre-Condition	Admin not give any response to scholarship submission
Normal Course	
Actor	System
1. Admin go to give response page scholarship 3. Admin choose some of student that match with scholarship requirement 4. Admin give notification	2. System display list of student that submission for scholarship 5. Finish
Alternate Condition	
Actor	System
-	-
Post-Condition	Admin give response to some student
Exceptions	-

3.2.14.2. Activity Diagram: Give Response

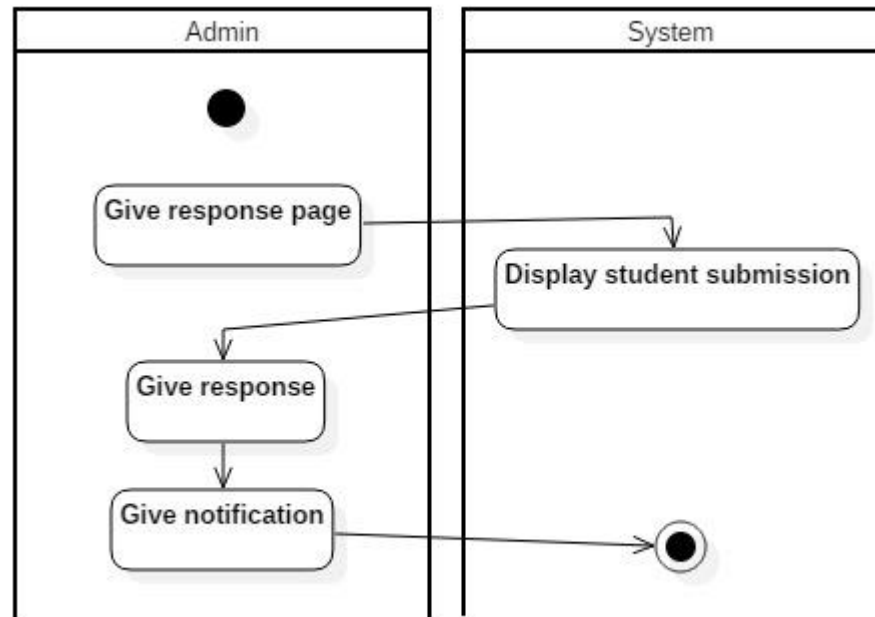


Image 14. Activity Diagram “Give response”

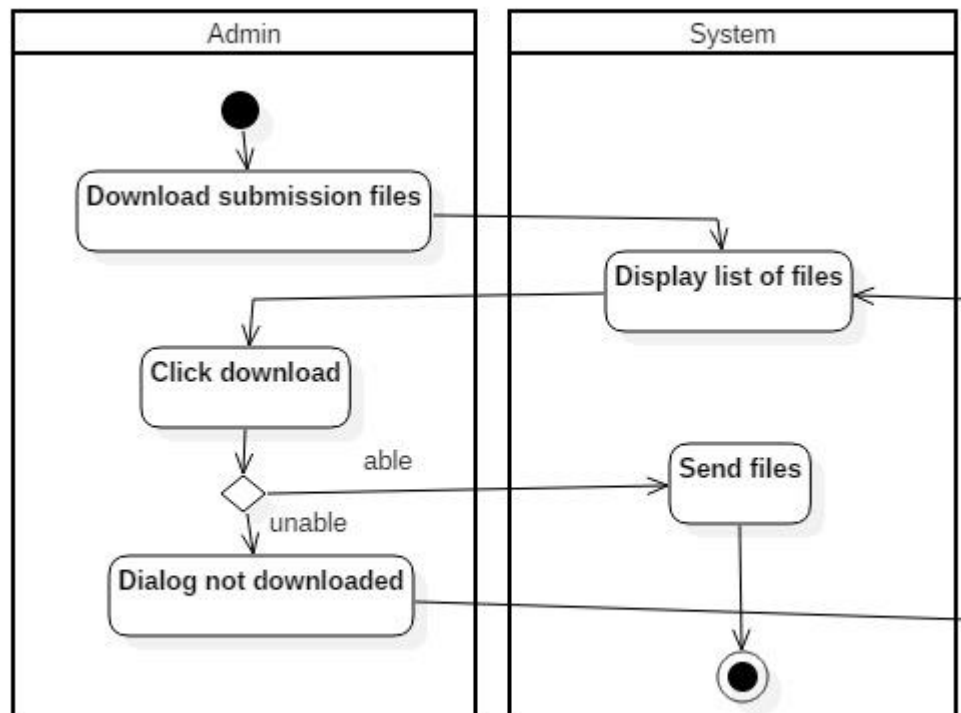
Department of Informatics ITS	SRS-001	Page 35 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

3.2.15. Function 14: Download Submission Files

3.2.15.1. Scenario: Download Submission Files

Use Case Code	UC14
Use Case Name	Download submission files
Description	In this use case, Admin can download submission files based on scholarship requirements
Actor	Admin
Pre-Condition	Admin not download submission files
Normal Course	
Actor	System
1. Admin click "download submission files" 3. Admin click "download" A1. If file not downloaded	2. System display list of files based on certain scholarship 4. System sending file to the admin 5. Finish
Alternate Condition	
A1. If file not downloaded	
Actor	System
A1.2. Admin receive the message that show by system with click "OK"	A1.1 System show warning that files not downloaded A1.3. System back to step number 2
Post-Condition	Admin download submission files
Exceptions	-

3.2.15.2. Activity Diagram: Download submission files



Images 15. Activity Diagram “Download submission files”

3.2.16. Function 15: See Student Profile**3.2.16.1. Scenario: See Student Profile**

Use Case Code	UC15
Use Case Name	See student profile
Description	In this use case, Admin can see all student profile
Relation	Extend with UC See Personal Data and UC See Submission History
Actor	Admin
Pre-Condition	Admin not see student's profile
Normal Course	
Actor	System
1. Admin click "see student profile" 3. Admin click "see profile" on one of student	2. System display all student list 4. System display student profile 5. Finish
Alternate Condition	
Actor	System
-	-
Post-Condition	Admin see student's profile
Exceptions	-

3.2.16.2. Activity Diagram: See Student Profile

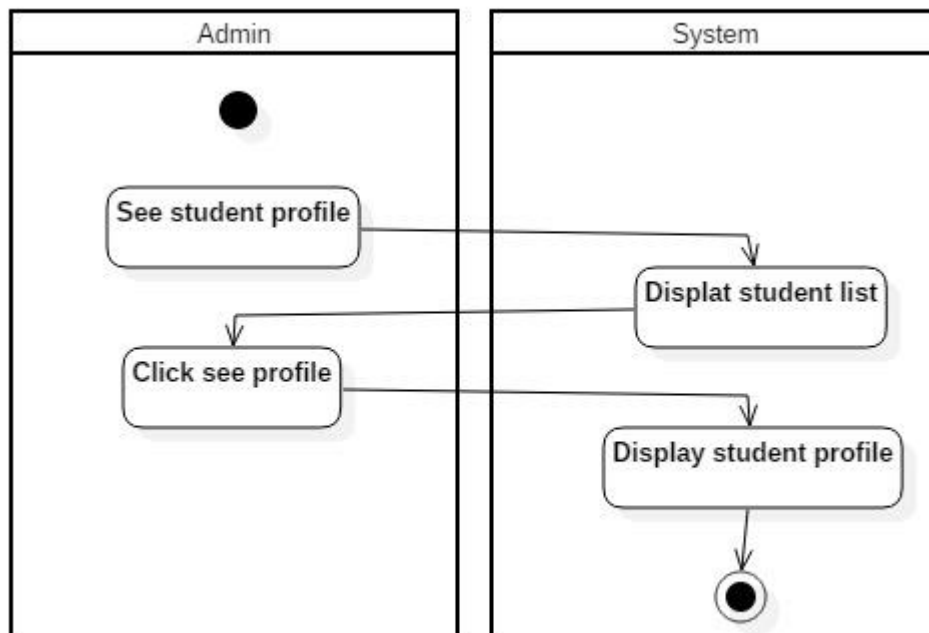


Image 16. Activity Diagram "See student profile"

3.2.17. Function 16: See Personal Data

3.2.17.1. Scenario: See Personal Data

Use Case Code	UC16
Use Case Name	See personal data
Description	In this use case, Admin can see personal data of each student
Actor	Admin
Pre-Condition	Admin not see personal data
Normal Course	
Actor	System
1. Admin click "see personal data"	2. System display personal data of choosen student 3. Finish
Alternate Condition	
Actor	System
-	-
Post-Condition	Admin see personal data
Exceptions	-

3.2.17.2. Activity Diagram: See Personal Data

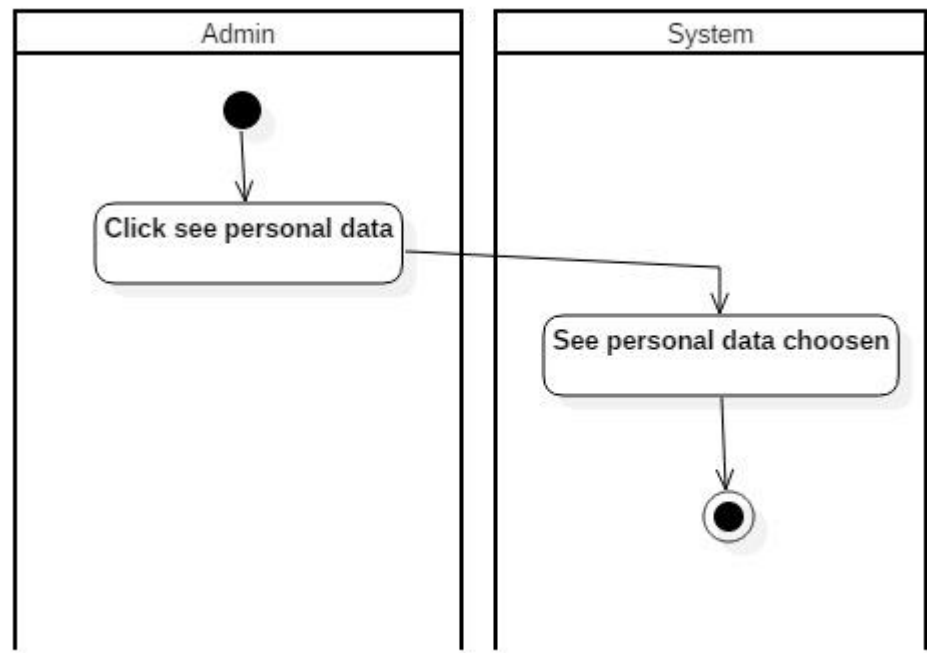


Image 17. Activity Diagram “See Personal Data”

Department of Informatics ITS	SRS-001	Page 41 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

3.2.18. Function 17: See Submission History**3.2.18.1. Scenario: See Submission History**

Use Case Code	UC17
Use Case Name	See submission history
Description	In this use case, Admin can see submission history of each student
Actor	Admin
Pre-Condition	Admin not see submission history
Normal Course	
Actor	System
1. Admin click "see submission history"	2. System display submission history of choosen student 3. Finish
Alternate Condition	
Actor	System
-	-
Post-Condition	Admin see submission history
Exceptions	-

3.2.18.2. Activity Diagram: See Submission History

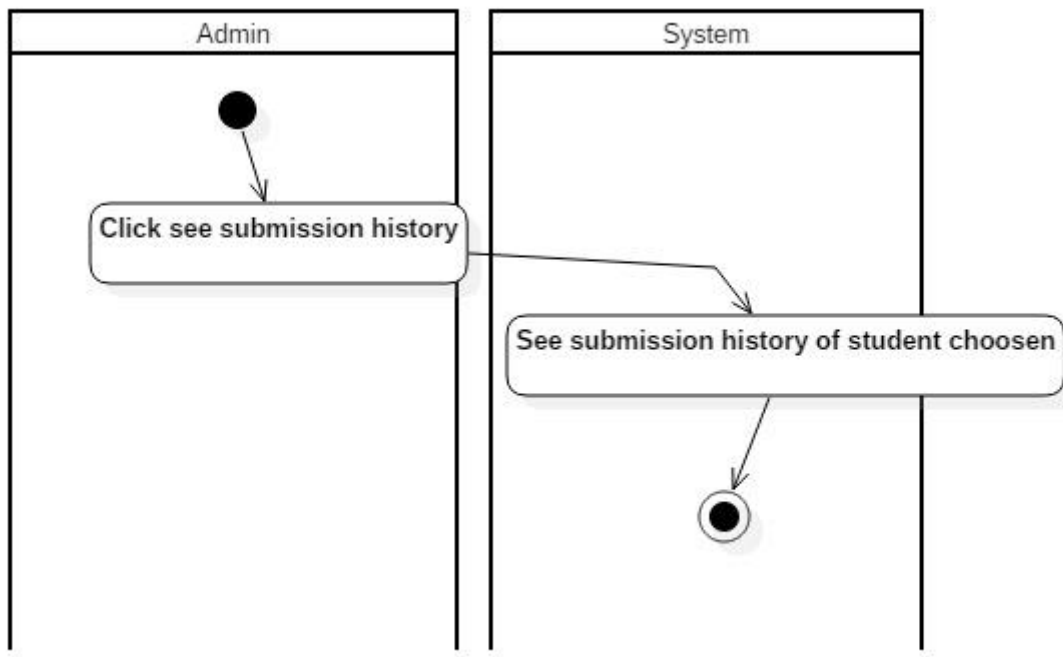
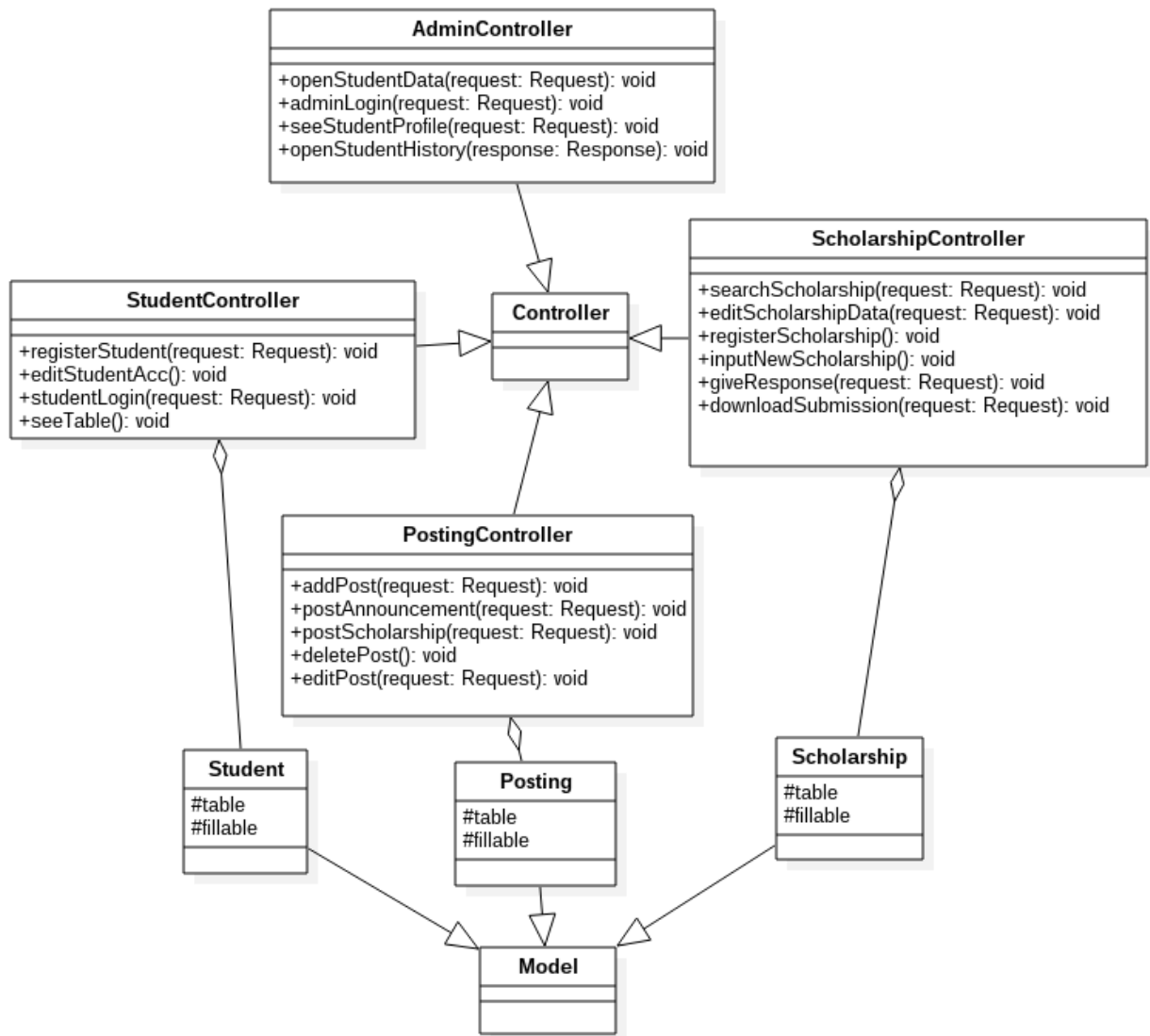


Image 18. Activity Diagram “See Submission History”

Department of Informatics ITS	SRS-001	Page 43 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

3.3 Classes Description

3.3.1 Class Diagram



Gambar 19. Diagram Kelas

3.3.2 Domain Problem Description

Tabel 3 Deskripsi Kelas Domain Persoalan

No .	Nama	Metode	Atribut	Tugas

3.3.3 Controller Class Description

Tabel 4 Deskripsi Kelas Pengendali

No .	Nama	Metode	Atribut	Tugas
1.	Student registration	registerStudent()		Insert student data to database
2.	Student data update	editStudentAcc()		Update student data to database
3.	Student login	studentLogin()		Student login to system
4.	See submission table	seeTable ()		Display student submission table
5.	Open student data	openStudentData()		Display student data
6.	Admin login	adminLogin()		Admin login to system
7.	See student data	seeStudent()		Displat student data
	See student table history	seeStudentHistory()		Display student submission history via admin
	Add post	addPost()		Add posting and insert into DB
	Post announcement	postAnnouncement()		Post announcement and insert into DB
	Delete post	deletePost()		Delete post
	Edit Post	editPost()		Edit post and update the post DB
	Seadr for	searchScholarship()		Find any scholarship

	scholarship			
	Edit scholarship data	editScholarship()		Edit and update scholarship data in Database
	Register for scholarship	registerScholarship()		Register and upload files
	Input New Scholarship	inputNewScholarship()		Post scholarship and insert into Database
	Give response to certain scholarship	giveResponse()		Give reponse on certain scholarship
	Download scholarship submission	downloadSubmission()		Downlload all submission

3.3.4 Entity Class Description

Gambar 30. Physical Data Model

Tabel 5 Deskripsi Kelas *Entity*

N o.	Nama	Atribut	Metode	Tugas
1.				
2.				
3.				
4.				

3.3.5 Boundary Class Description

Tabel 6 Deskripsi Kelas *Boundary*

N o.	Nama	Atribut	Metode	Tugas
1.				
2.				
3.				
4.				

Department of Informatics ITS	SRS-001	Page 46 from 48
This document template and all the information is owned by Software Engineering Laboratory, Department of Informatics ITS and classified. Reproduction is prohibited without acknowledgment by Software Engineering Laboratory, Department of Informatics.		

5.				
----	--	--	--	--

3.4 Data Flow Diagram

Gambar 31. Data Flow Diagram

3.5 Kebutuhan Non Fungsional

Tabel 7 Deskripsi Kebutuhan Non Fungsional

SKPL-Id	Parameter	Requirement
SKPL-N01	Access Capability	The Application be able to accessed in any kind of browser
SKPL-N02	Ergonomy	The Application designed with well built UI/UX. Easier to operate, very well understand, and not confusing.
SKPL-N03	Response Time	Database is accesed under 5 seconds
SKPL-N04	Validation	User which aren't ITS Student cannot access the system

3.6 Batasan Perancangan

- Compatible with HTML 1.1 and PHP 5.6 above.

3.7 Ringkasan Kebutuhan

3.7.1 Ringkasan Kebutuhan Fungsional

Tabel 8 Ringkasan Kebutuhan Fungsional

SKPL-Id	Keterangan
SKPL-F001	Department can post the latest scholarships
SKPL-F001	Department can give status to certain scholarships whether the scholarships still available or not
SKPL-F002	Student can register an account
SKPL-F003	Student can fill and update their own datas
SKPL-F004	Student can upload files for scholarship requirement
SKPL-F005	Student can update their files before the due date
SKPL-F006	Student can see their submission status
SKPL-F007	Student can see their submission history
SKPL-F008	Department can decide which submission is appropriate for certain scholarship
SKPL-F009	Department can download certain student files
SKPL-F010	Department can download all the files with certain scholarship
SKPL-F011	Department can see submission status for each scholarships
SKPL-F012	Department can see submission history for each students
SKPL-F013	Department have authority to see student's datas

3.7.2 Ringkasan Kebutuhan Non Fungsional

Tabel 9 Ringkasan Kebutuhan Non Fungsional

SKPL-Id	Keterangan
SKPL-NF001	System can run with all kind of device browsers
SKPL-NF002	System is user friendly
SKPL-NF003	System is high-speed accessed
SKPL-NF004	System can validate student account