Chapter 1

Introduction

1. Introduction

1.1 About the System

EARS is a web based Employment Application Review System for International School. The system is implemented in PHP platform. The main aim of this software is review school faculty members application and also can find best job applicant. The system will helpful for all school. In ordinary process, it is very difficult to find best applicant and review them. But by using this system you can easily do this. The function of the system is very simple and also user friendly. The system connects to database, so you can store all applicant data. Applicant have to login this system, can add new account, review applicant, account setting etc.

1.2 Purpose

It is a web based software.The system is designed so that school faculty members can examine candidates and collaborate asynchronously to find the best candidate for a particular job. This system reduces the process overload and relieves the workload for the search head. The system is very useful for applicant review and finding best candidates.

1.3 Scope

The scope of this project will be to provide a system that allows to:

1. log-in EARS system
2. Manage system users (add new accounts)
3. Add a new faculty search (committee chair, members, position, search starting date and ending date, add new committee members)
4. List and review applications (view profile, post comments on applicants, change applicants' statues, perform a faculty review, assign faculty review)
5. Set account's settings (email, name, title, password)

1.4 Vision

The vision of the software to store all applicant information and also review them thorough internet. The main vision of the system is find best applicant.

1.5 Why this system is necessary?

Now a days we cannot work hard. If we review applicant one by one manually, it will take more time and also difficult. It also more difficult to collaborate asynchronously to find the best candidate for a particular job. You can easily do this by using this system.

Chapter 2

System Analysis

2. System Analysis

The Merriam-Webster dictionary defines system analysis as "the process of studying a procedure or business in order to identify its goals and purposes and create systems and procedures that will achieve them in an efficient way". Another view sees system analysis as a problem-solving technique that breaks down a system into its component pieces for the purpose of the studying how well those component parts work and interact to accomplish their purpose.[1]

The field of system analysis relates closely to requirements analysis or to operations research. It is also "an explicit formal inquiry carried out to help a maker identify a better course of action and make a better decision than she might otherwise have made.

2.1 Actor Goal List

Actor	**Goal**
System Admin	• Create new account • Add committee members • Manage users • Add new faculty search
Faculty Member	• Create new account • Login system • List and overview application • Set account setting

2.2 Use Case Model

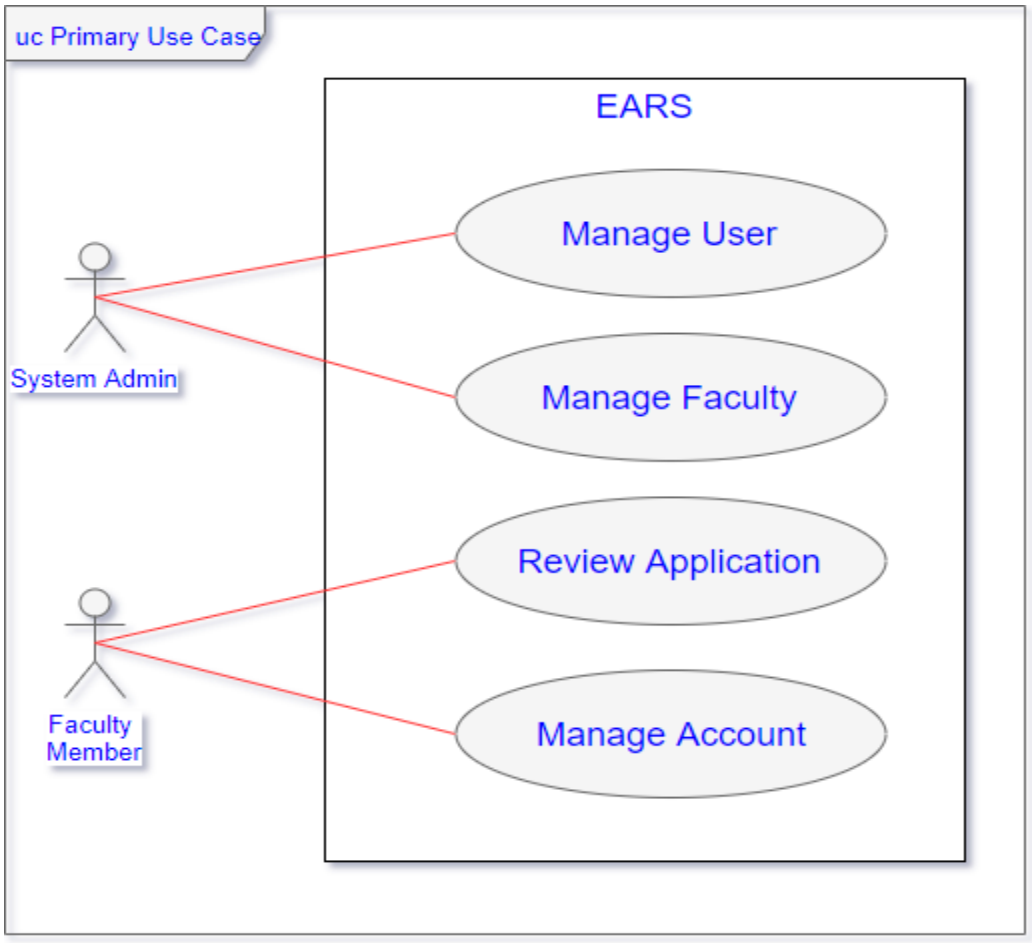

Figure 2.1 Use Case Diagram

2.3 Use Case Description (Brief)

2.3.1 Manage User

The system admin can create a new account for the user. Before creating account he need give proper information about user for registration. After registration he can able to go to the home page.

2.3.2 Manage Faculty

Admin can add new committee and their position, starting date, ending date etc. He also can search committee through starting or ending date. All the information store into database.

2.3.3 Review Application

The faculty member can go to the home page after completing login process. Then they can view all applicant profile and review them. They also can list all applicant because all the information of the applicant are stored into the database.

2.3.4 Manage Account

The user need to update their account the can easily do this by using this facility. The can change their password, email, title.

2.4 Use Case Description (Detailed)

2.4.1 Manage User

Use Case ID	1	
Name	Manage User	
Primary Actor	System Admin	
Secondary Actor	Faculty Members	
Goal	Manage all faculty members and system users.	
Precondition	1. Must be connected with internet. 2. Must be provided Registration Form. 3. User must exit.	
Post Condition	New account must be create. User list must be provided.	
Flow of events	Actor	System
	1.User request for registration form	
	2. Create registration option.	2.1 Create registration form
	3. Give registration information.	3.1 Display registration information.
	4. Verify registration information.	4.1 Verify information.
	5. Delete user	5.1 Delete user
Exception conditions	2.1 If there is no need to registration in this system the use case is not important. 4.1 If the user does not give information, then the system not need to verify. 5.1 user is not exist, there is no delete option.	

2.4.2 Manage Faculty

Use Case ID	2	
Name	Manage Faculty	
Primary Actor	System Admin	
Secondary Actor	Faculty Members	
Goal	Manage all committee members.	
Precondition	1. Must be connected with internet. 2. Must be provided Committee Creation Form. 3. Admin must exit.	
Post Condition	New committee must be create. Committee list must be provided.	
Flow of events	Actor	System
	1.Admin request for committee registration form	
	2. Create committee registration option.	2.1 Create committee registration form
	3. Give committee information.	3.1 Display committee information.
	4. Verify information.	4.1 Verify information.
	5. Search committee	5.1 Display committee information.
Exception conditions	2.1 If there is no need to registration committee in this system the use case is not important. 4.1 If the admin does not give information, then the system not need to verify. 5.1 If committee is not exist, there is no search option.	

2.4.3 Review Application

Use Case ID	3
Name	Review Application
Primary Actor	Faculty Members
Secondary Actor	System Admin
Goal	Review all applicant and create list of them.
Precondition	1. Must be connected with internet. 2. Must be provided applicant profile. 3. Faculty member must exit.
Post Condition	Must comment on applicant profile. Applicant list must be provided.

Flow of events	Actor	System
	1. Faculty member request for applicant profile.	1.1 Display applicant profile.
	2. Verify applicant profile.	2.1 Verify information.
	3. Comment on applicant profile	3.1 Display applicant profile.
Exception conditions	1.1 If there is no need to registration in this system the use case is not important. 2.1 If there is no profile, then the system not need to verify. 3.1 If applicant is not exist, there is no comment option.	

2.4.4 Manage Account

Use Case ID	4	
Name	Manage Account	
Primary Actor	Faculty Members	
Secondary Actor	System Admin	
Goal	Set and update all faculty members' account.	
Precondition	1. Must be connected with internet. 2. Must have an account. 3. Faculty Member must exit.	
Post Condition	Account must be updated.	
Flow of events	Actor	System
	1. Faculty member request for profile.	1.1 Display profile information.
	2. Update profile.	2.1 Display profile information.
Exception conditions	1.1 If there is no profile, then the system do not display it. 2.1 If there is no need to update profile in this system the use case is not important.	

2.5 System Sequence Diagrams

2.5.1 Manage User: Main Flow

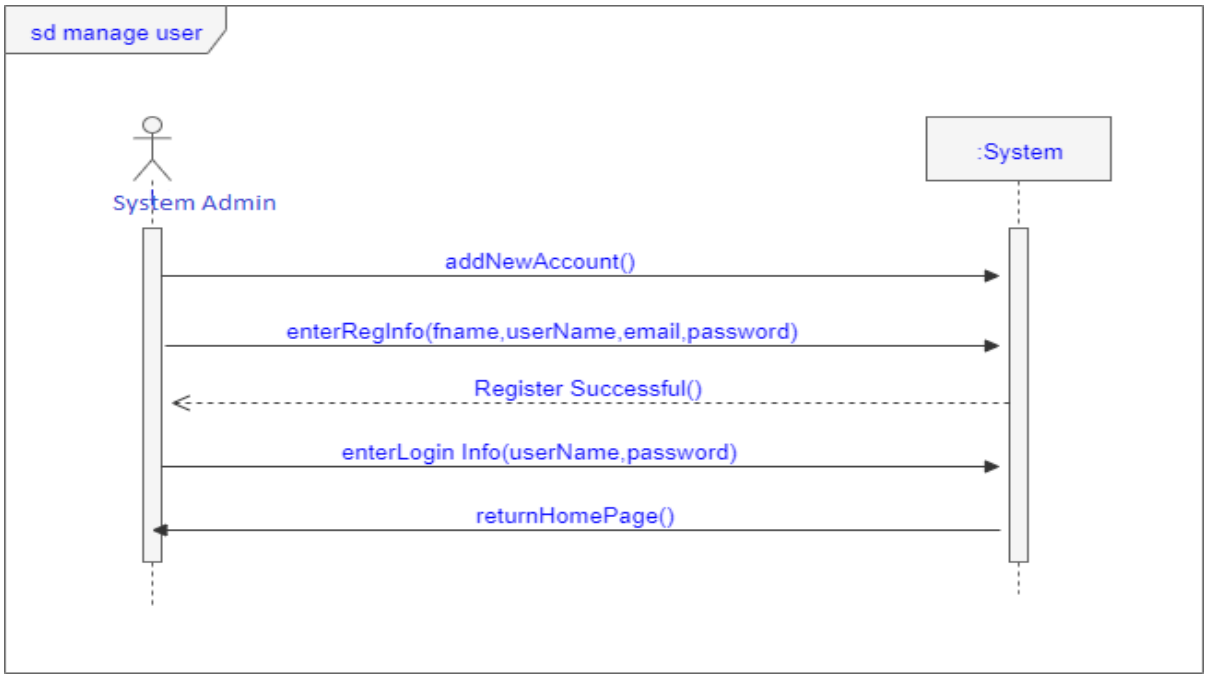

Figure 2.2 SSD to Manage User

2.5.2 Manage Faculty: Main Flow

Figure 2.3 SSD to Manage Faculty

2.5.3 Review Application: Main Flow

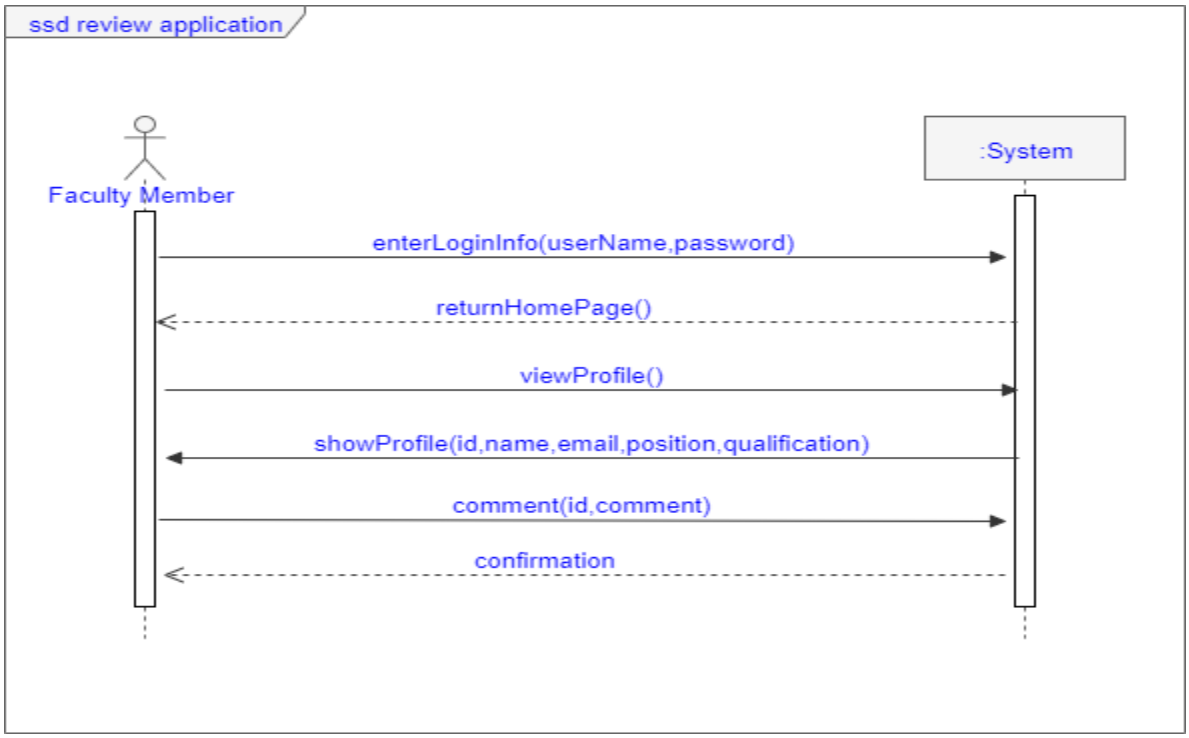

Figure 2.4 SSD to Review Application

2.5.4 Manage Account: Main Flow

Figure 2.5 SSD to Manage Account

2.6 Domain/Conceptual Model

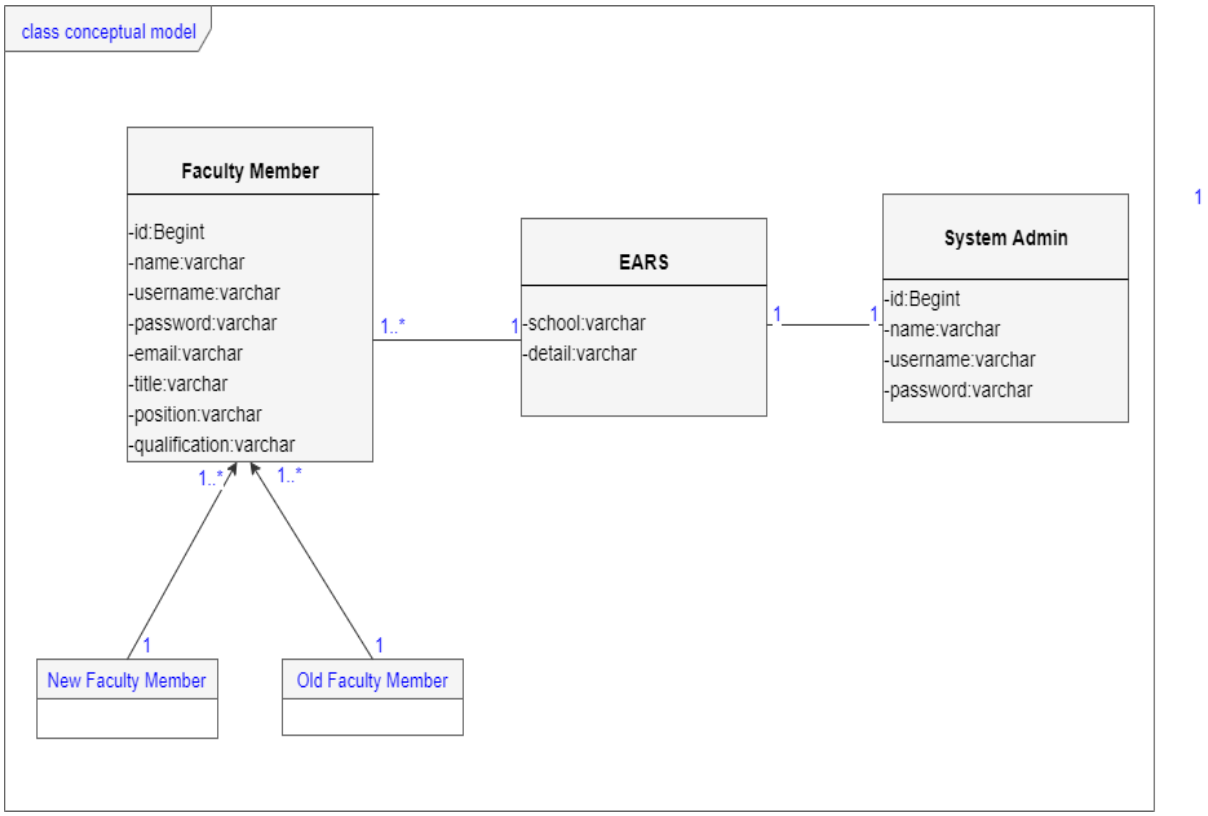

Figure 2.6 System Domain Model

2.7 Activity diagram

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency.

In the system workflows starts from the stage when an applications enters the area of Federal Shariat Court i.e. uploaded in the system to last activity that is a judgment comes or the case is dismissed .This whole process is shown in the below diagram.

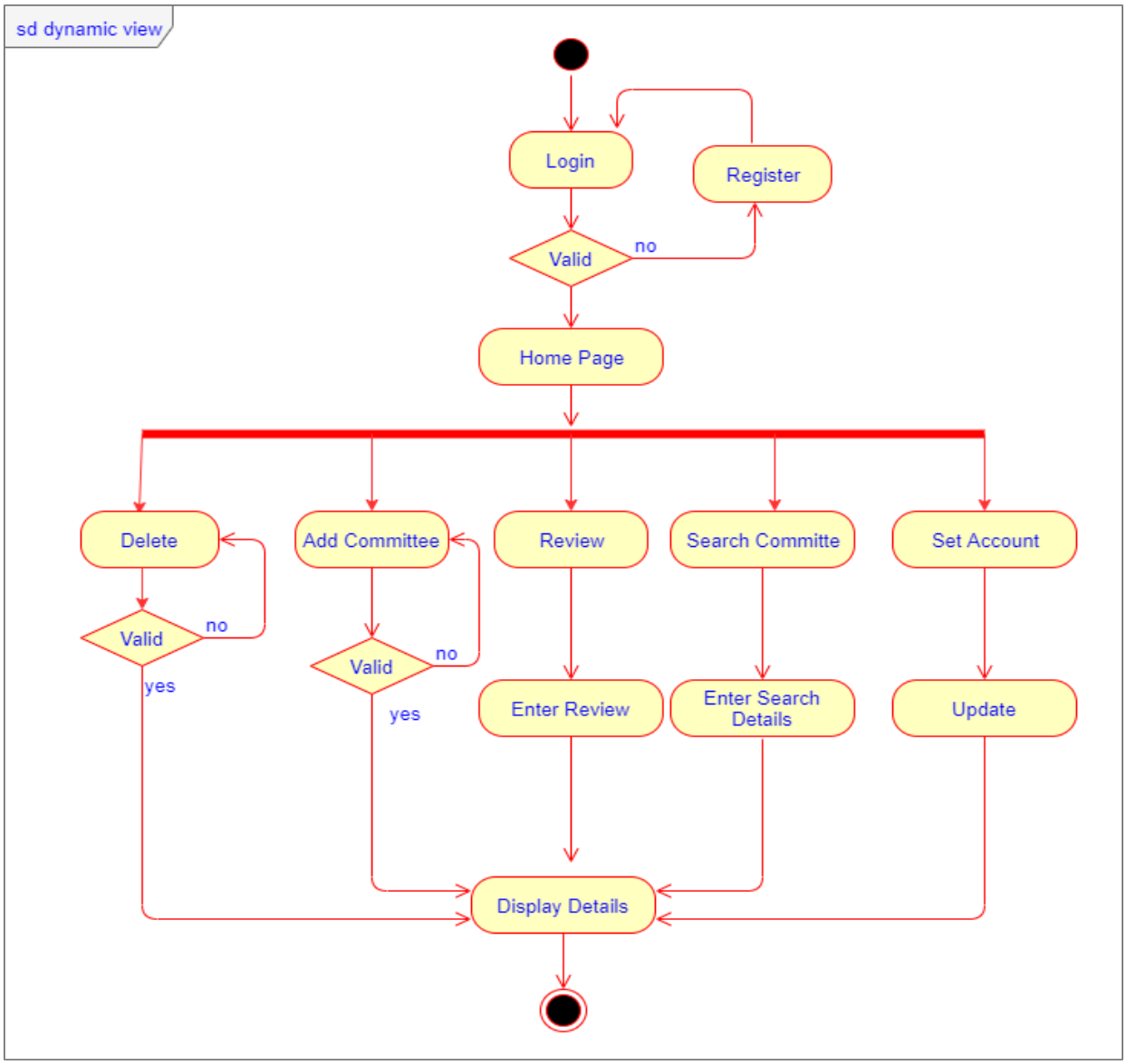

Figure 2.18 Activity Diagram of the system

Chapter 3

System Design

3. System Design

Design is a process that uses the product of analysis to produce a specification for implementing a system. Design is the logical description of how a system will work.

Design emphasizes a conceptual solution that fulfills the requirements, rather than its implementation. For example, a description of a database schema and software objects. Design ideas often exclude low-level or "obvious" details obvious to the intended consumers.

Ultimately, designs can be implemented, and the implementation (such as code) expresses the true and complete realized design. The term is best qualified, as in object-oriented design or database design.

3.1 Sequence Diagrams

The UML includes interaction diagrams to illustrate how objects interact via messages. They are used for dynamic object modeling. The term interaction diagram is a generalization of two more specialized UML diagram types:

3.1.1 Manage User

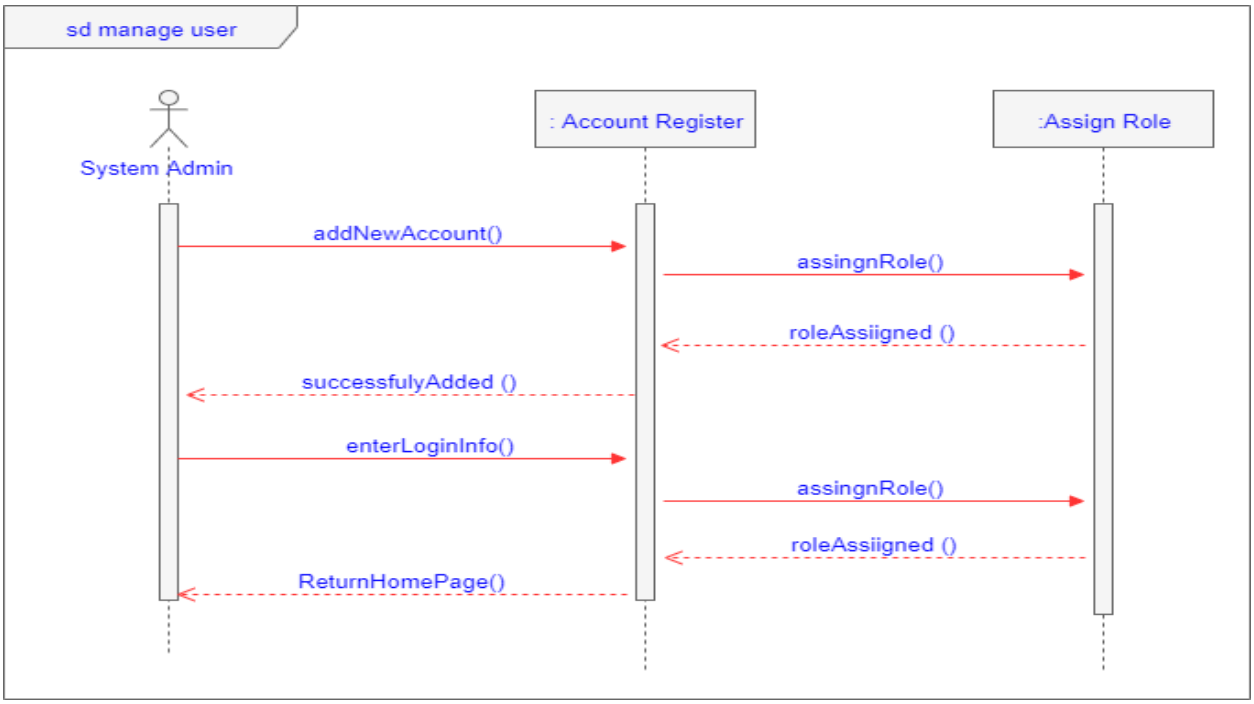

Figure 3.1 SD to Manage User

3.1.2 Manage Faculty

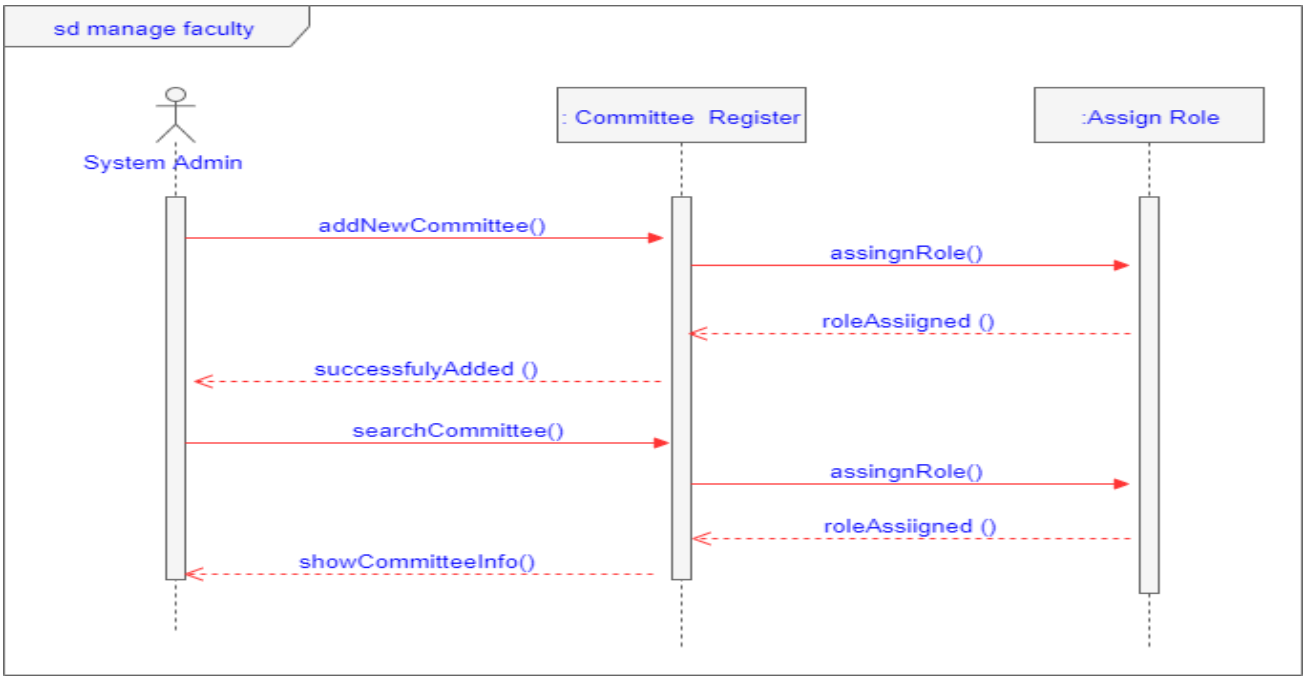

Figure 3.2 SD to Manage Faculty

3.1.3 Review Application

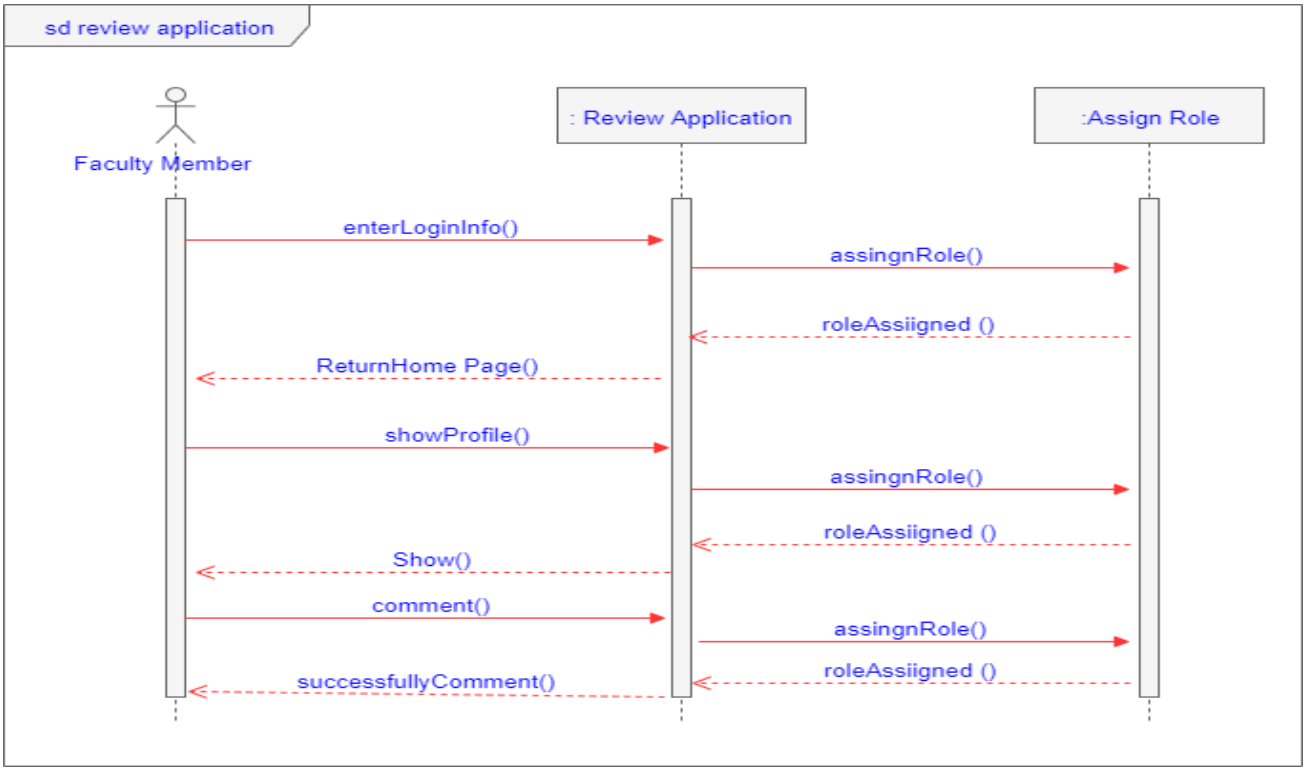

Figure 3.3 SD to Review Application

3.1.4 Manage Account

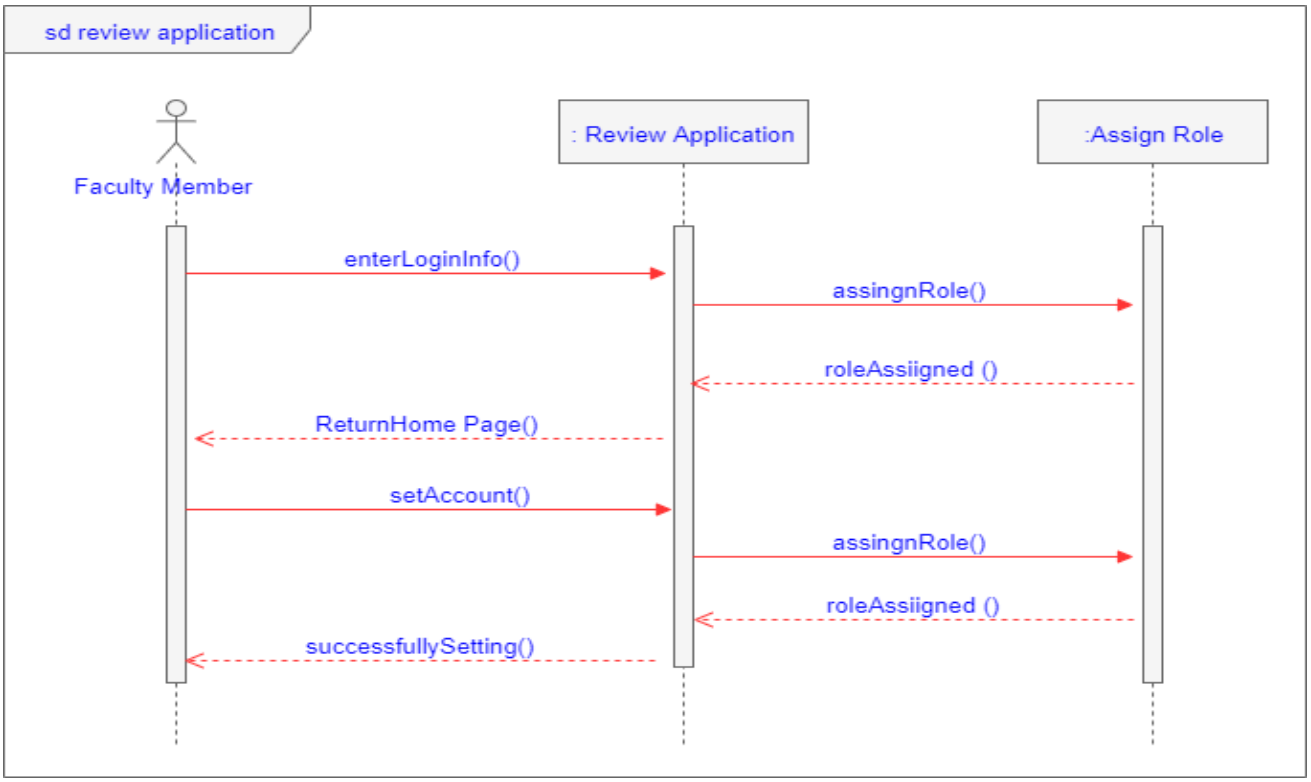

Figure 3.4 SD to Manage Account

3.2 Class Diagram

Class or structural diagrams define the basic building blocks of a model. They are used for static object modeling, describing what attributes and behavior it has rather than detailing the methods for achieving operations.

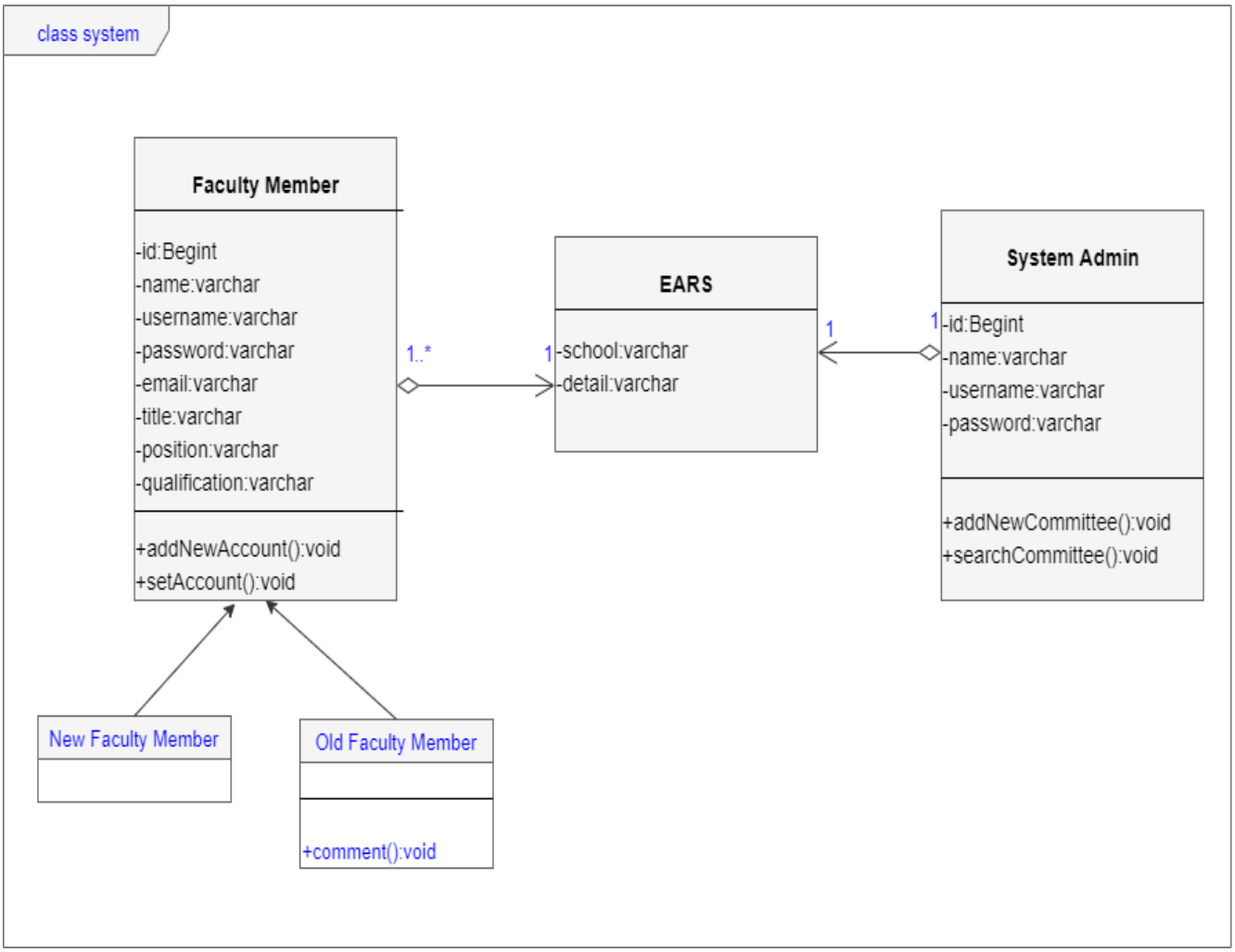

Figure 3.5 Class Diagram of System