



COURSE PROJECT

PROJECT TITLE

Employment Application Review System

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Chapter1: Introduction

1. Introduction

Employment application review system, where faculty members from the International School of Software can review applicant and collaborate asynchronously in order to find the best applicant for a given job opening.

1.1 About the system

EARS is an intranet-based Employment Application Review System for the International School of Software. The system is designed so that school faculty members can review applicants and collaborate asynchronously in order to find the best applicant for a given job opening. This system reduces the overhead of the process and lightens the workload for the search chairperson.

1.2 Purpose

The purpose of the EARS is to find applicant for given job.

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, and 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, and assign faculty review)
 5. Set account's settings (email, name, title, password)
- Different users might need various functionalities.

1.4 Vision

EARS will allow faculty member to make good decision together. This system reduces the overhead of the process and lightens the workload for the search chairperson

1.5 Why this system is necessary

EARS will reduce overhead and allow faculty member to work when reviewing applicants to find the best match for the posted position. It will reduce word load by allowing to gain much needed input from the faculty members and less margin error.

1.6 Proposed solution

- **Voting system**

Chapter 2: System analysis

2.1 Actor Goal List

Actor	Goal
Faculty	<ul style="list-style-type: none">• Login• Manage account• Review applicants• Set application user• Assign review
Admin	<ul style="list-style-type: none">• Login• Manage account• Approve application• Add new member
Applicant	<ul style="list-style-type: none">• Login• Submit application• Manage account

2.2 Use Case Model

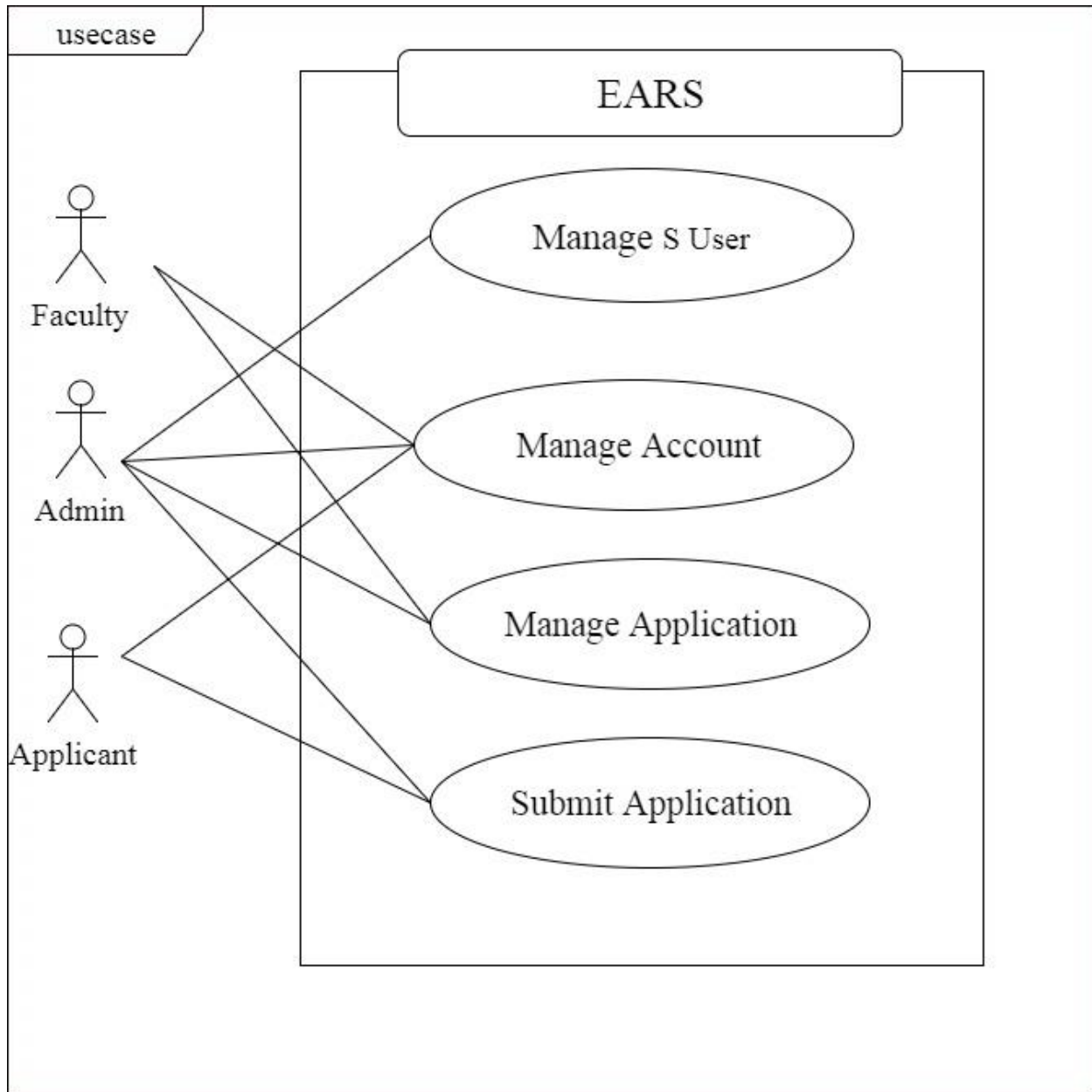


Fig-1: Use Case Diagram

2.3 Use Case Description (Brief)

2.3.1 Manage User

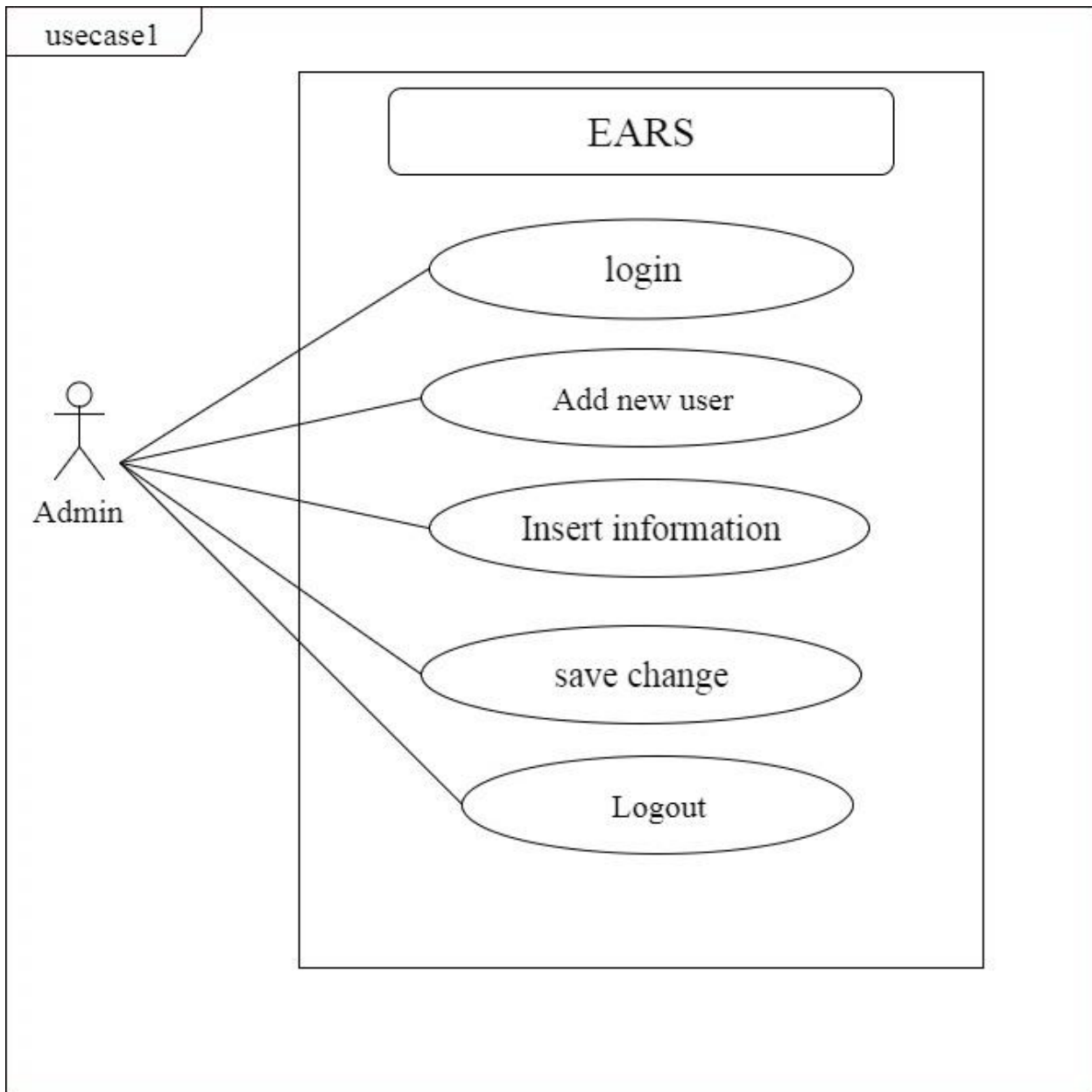


Fig-2: Use Case Diagram for Manage User

2.3.2 Manage Account

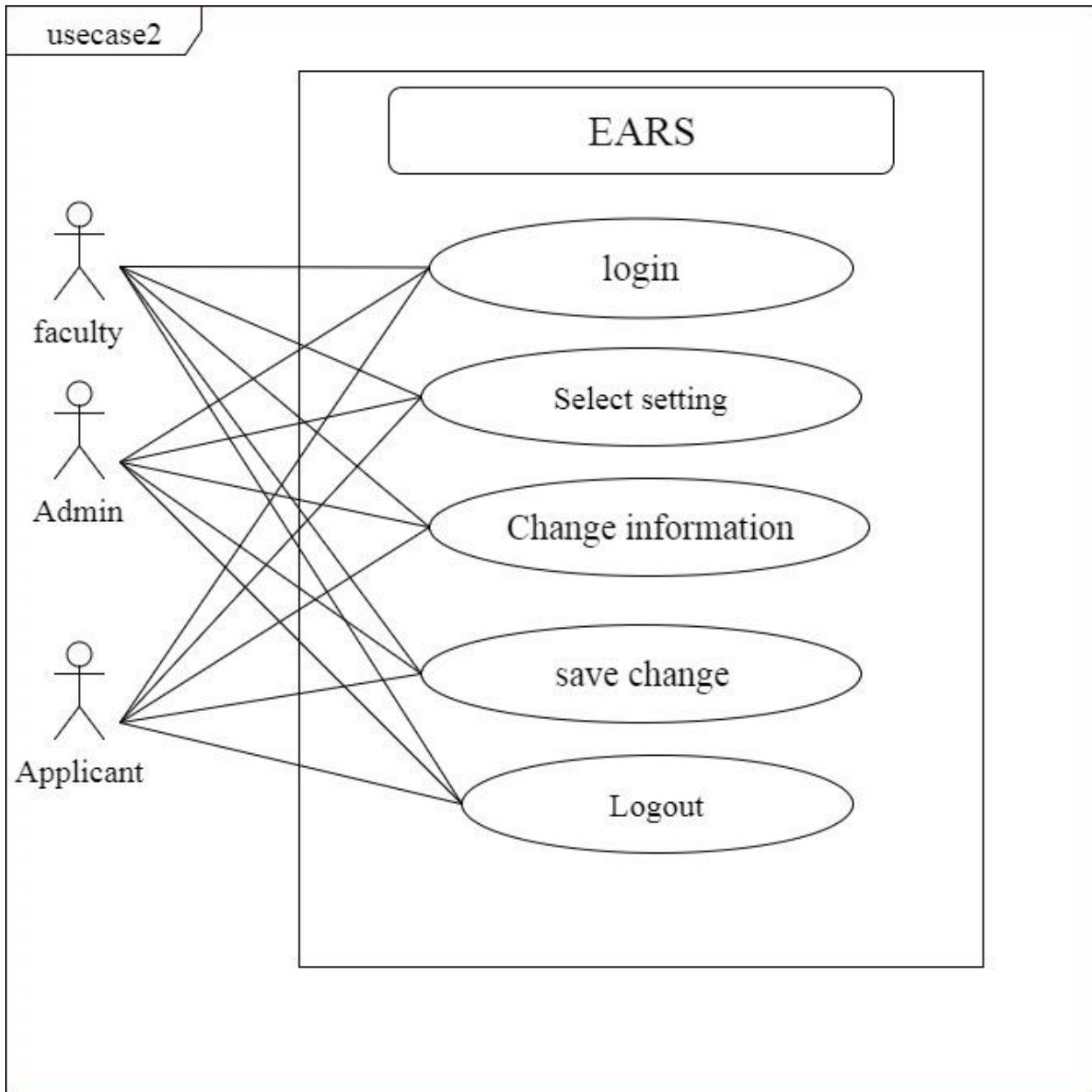


Fig-3: Use Case Diagram for Manage Account

2.3.3 Manage Application

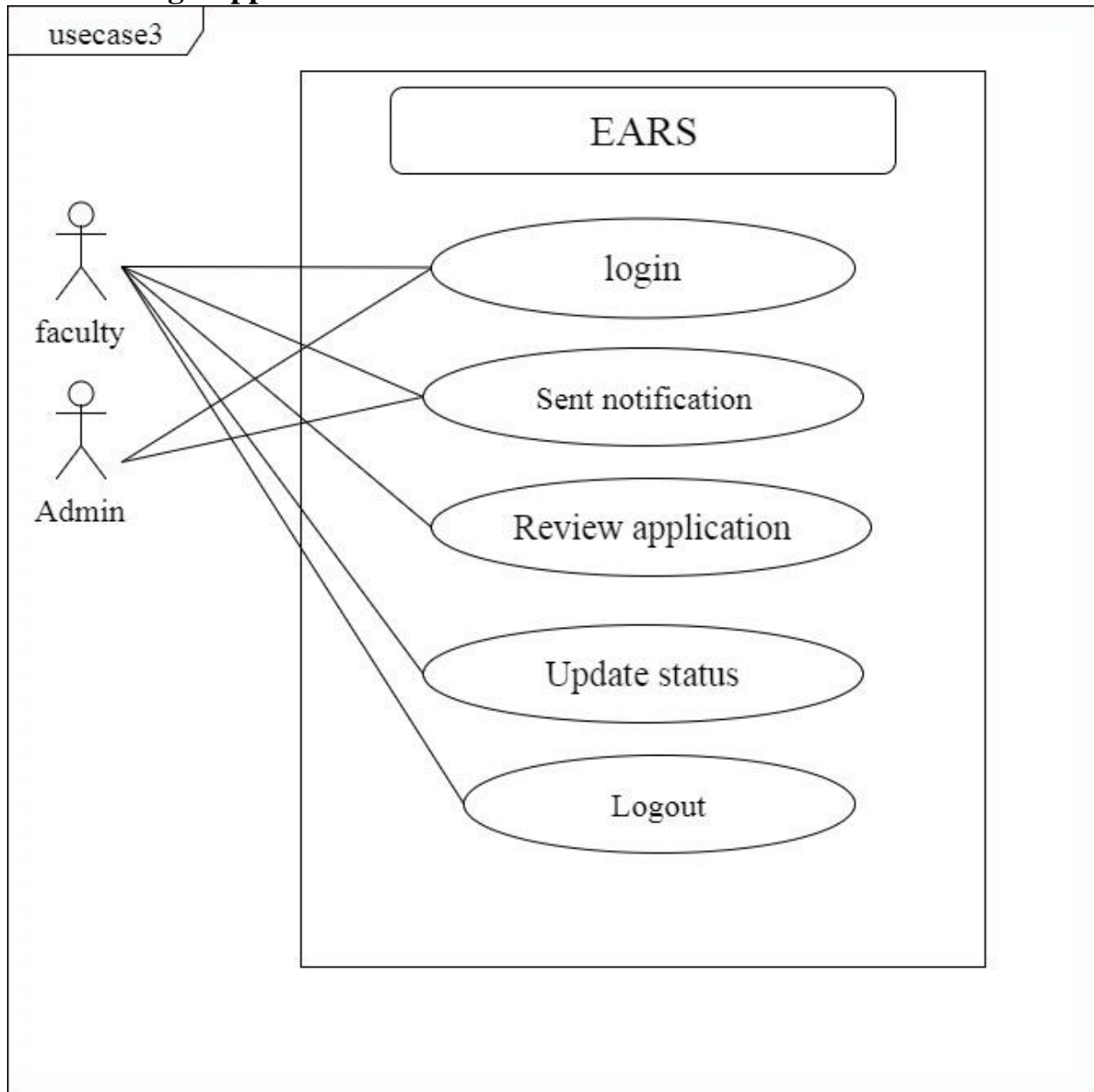


Fig-4: Use Case Diagram for Manage Application

2.3.4 Submit application

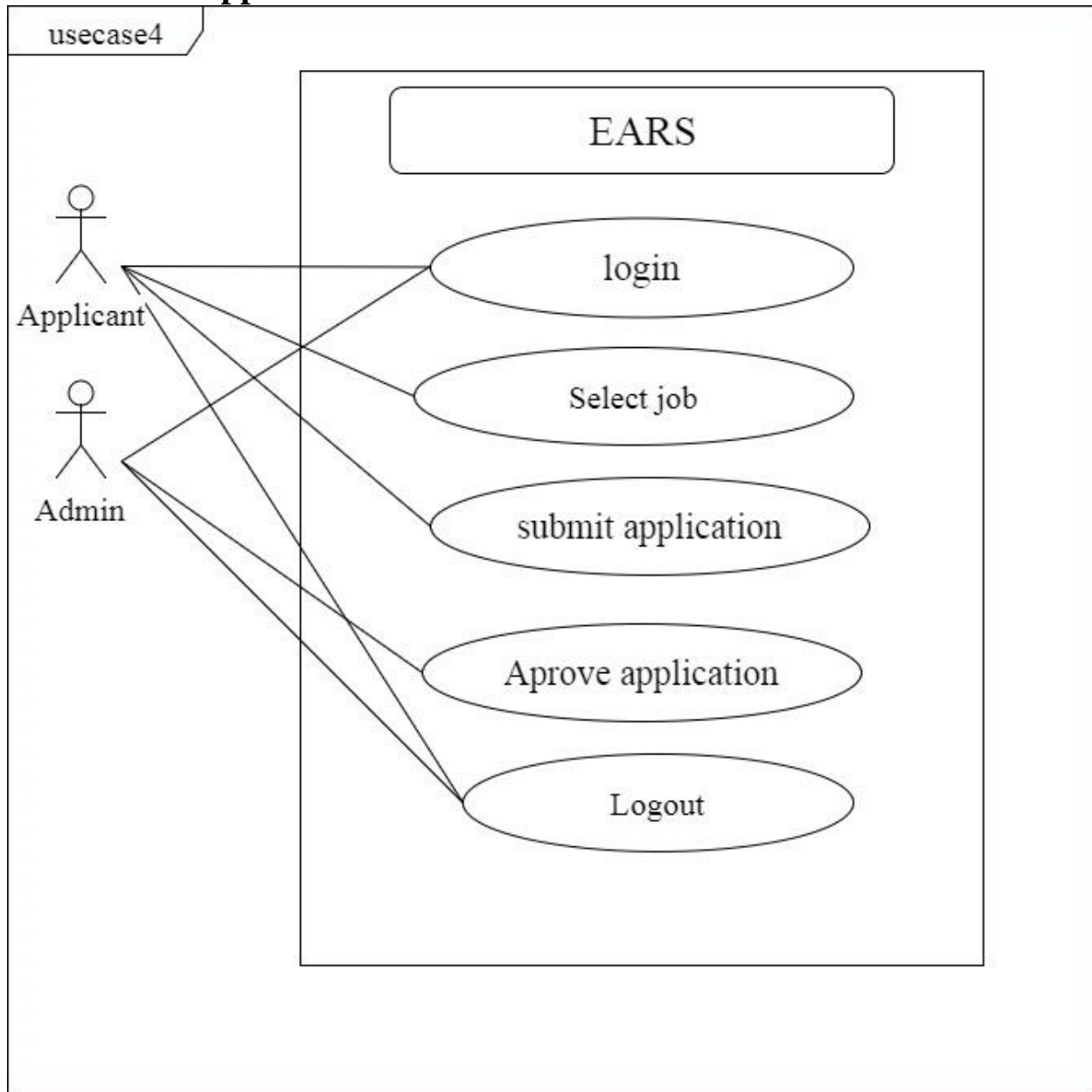


Fig-5: Use Case Diagram for submit application

2.4 Use Case Description (Details)

2.4.1 Manage User

Use Case Name:	Manage User	
Scenario :	Admin create account for user	
Level :	Admin	
Actor:	admin	
Precondition:	Admin must be logged in and authenticated.	
Post condition:	. The user accurate permission so that they may utilize the system.	
Flow of events:	Actor	System
	1.Admin logs in to their account 2.Admin select “ Create New User “ 3. Admin enter user information. 4.Admin save changes to user account 5. User get confirmation.	1.1. System offers template for login 3.1. System offers template for new member 5.1 system sent confirmation
Exception Condition:	2.1. If all information places are not filled up, then system will not work.	

2.4.2 Manage Account

Use Case Name:	Manage Account	
Scenario :	Applicant, admin and Faculty can change account setting.	
Level :	Admin Level	
Actor:	Admin, Faculty, Applicant	
Precondition:	User (Admin, Faculty, and Applicant) must be identified and authenticated before gaining access to ability to change their account system.	
Post condition:	.System admin is alerted of the change for the document sake.	
Flow of events:	Actor	System
	1.User logs into their account using current username and password 2. User select account setting. 3. User change their username/password/contact. 4.User selects "save" button 5.User enters current password into confirmation box 6. User receives a confirmation notification.	1.1. System offers template for login 4.1 save the information 5.1 system sent confirmation
Exception Condition:	2.1. If all information places are not filled up, then system will not work.	

2.4.3 Manage Application

Use Case Name:	Manage Application	
Scenario :	Faculty can review applications	
Level :	Admin Level	
Actor:	Faculty and Admin	
Precondition:	Application must be in a valid format and applicant must meet minimum requirement.	
Post condition:	Application meet the file format specification and requirements.	
Flow of events:	Actor	System
	1.Notification is sent to faculty members 2.Faculty members open and review the applications 3.Faculty members leaves comment on the application 4.Faculty members make a vote(yes/no) for each application 5.System compare vote count after voting 6.Status of applicant's application is updated	1.1 system sent notification 2.1. System offers template for login 4.1.System compare vote 6.1. System update stated
Exception Condition:	2.1. If all information places are not filled up, then system will not work.	

2.4.4 Submit Application

Use Case Name:	Submit Application	
Scenario :	Applicant can submit application and admin can list application	
Level :	user	
Actor:	Applicant, Admin	
Precondition:	Applicant must have their own account	
Post condition:	The application is in particular department and ready for review by faculty	
Flow of events:	Actor	System
	1.Applicant logs in to system 2.Applicant upload his application 3.Admin logs in to system 4.Admin receive the application 5.Admin determines the department for the job 6. Admin submits the application in the department's file storage. 7.Admin sent confirmation to the applicant	1.1. System offers template for login 2.1.System sends request to admin for authorization application 3.1. System sent confirmation
Exception Condition:	2.1. If all information invalid then system will not work.	

2.5 System Sequence Diagram

2.5.1 Manage User (success scenario)

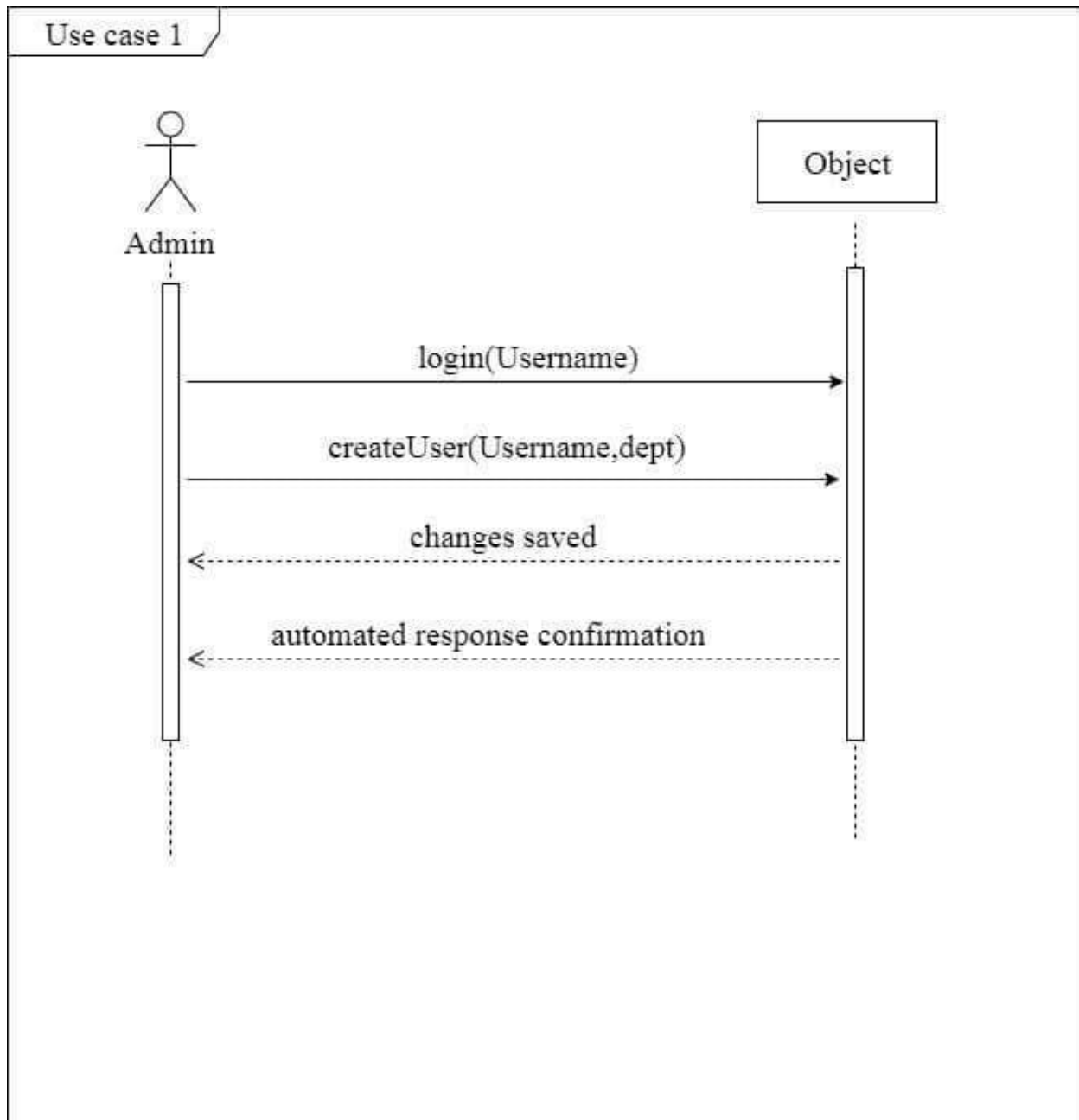


Fig-6: System sequence diagram for Manage User

2.5.2 Manage Account

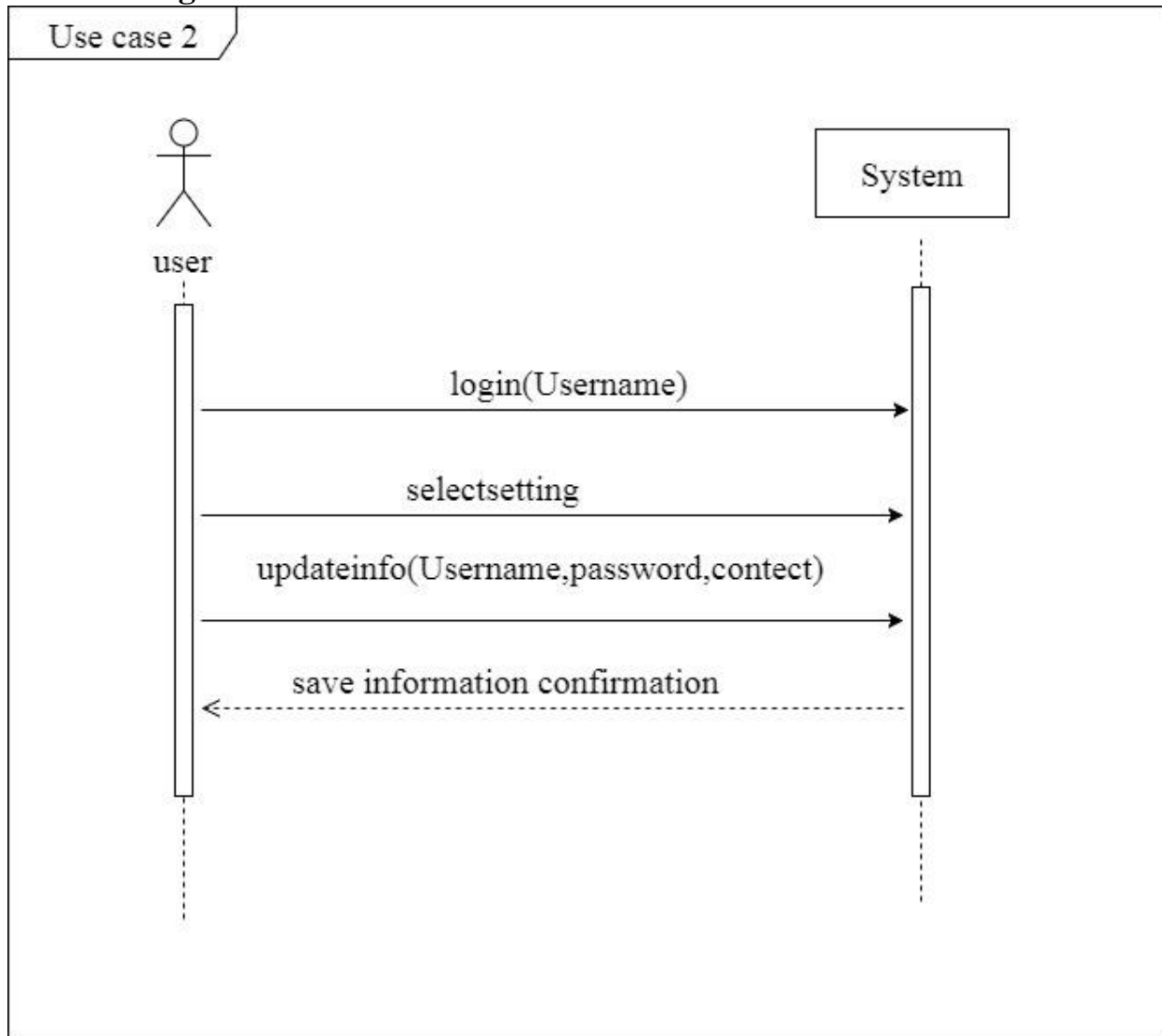


Fig-7: System sequence diagram for manage account

2.5.3 Manage application

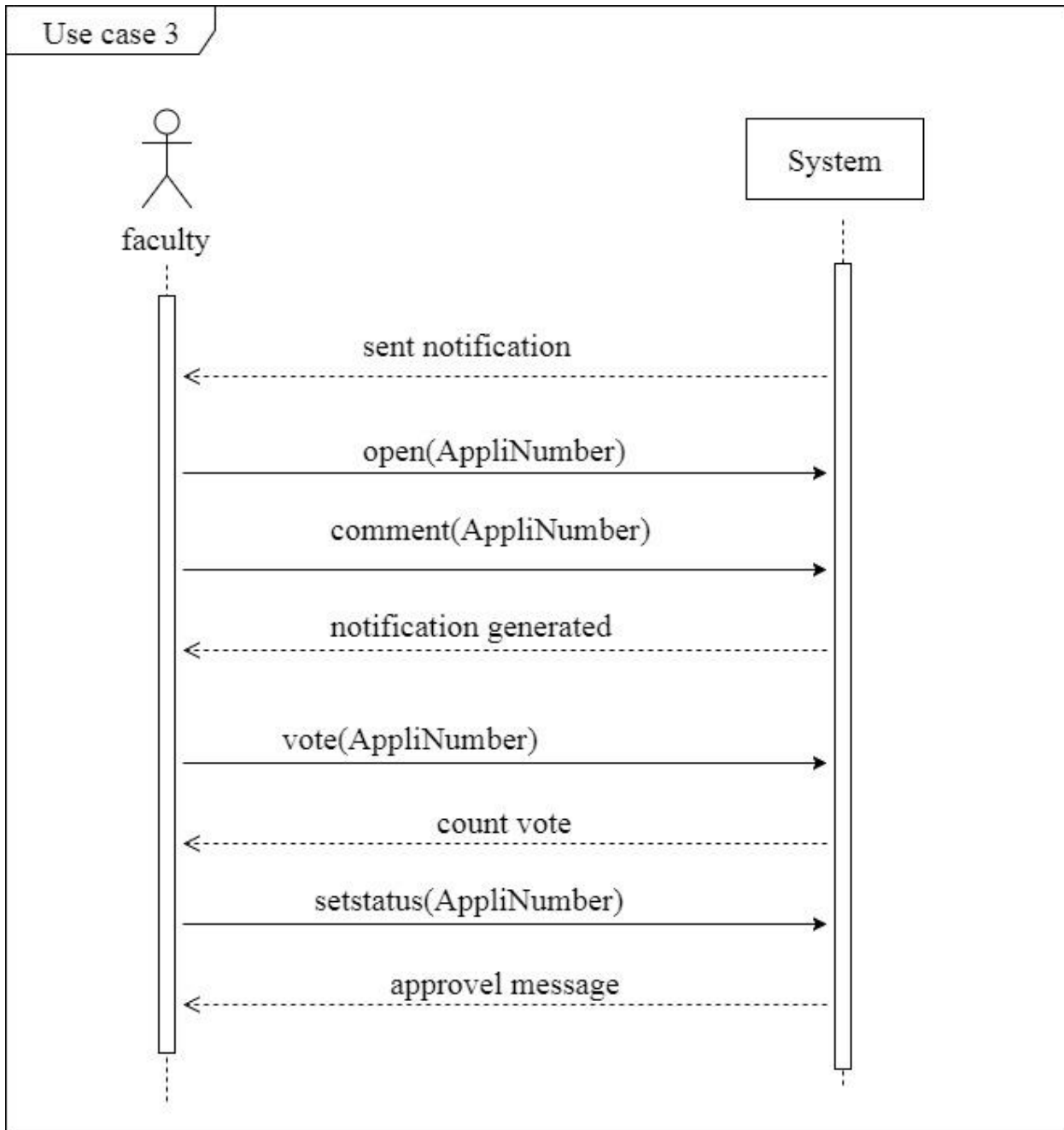


Fig-8: System sequence diagram for Manage application

2.5.4 Submit Application

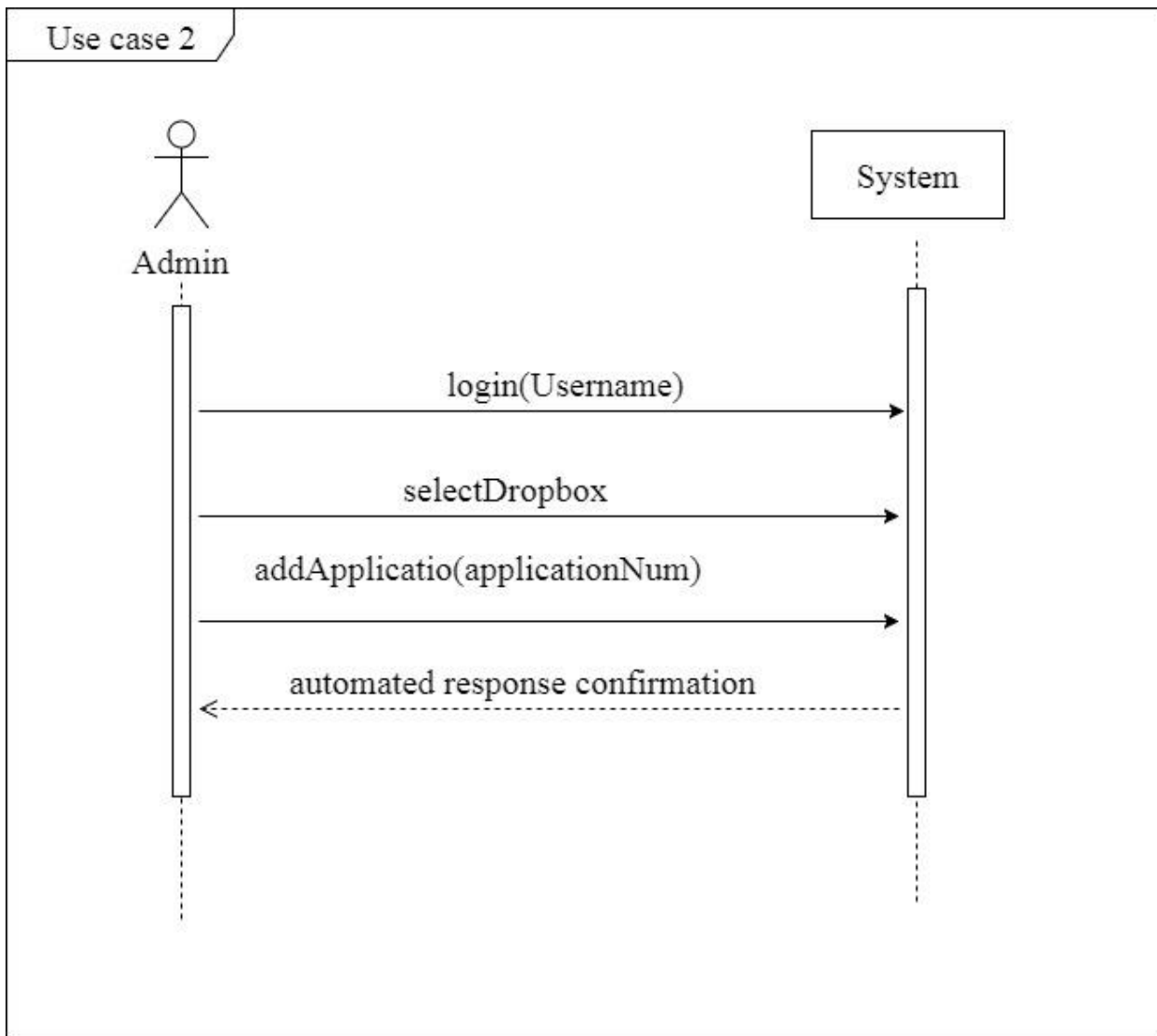


Fig-8: System sequence diagram for Submit Application

2.6 Domain/Conceptual Model:

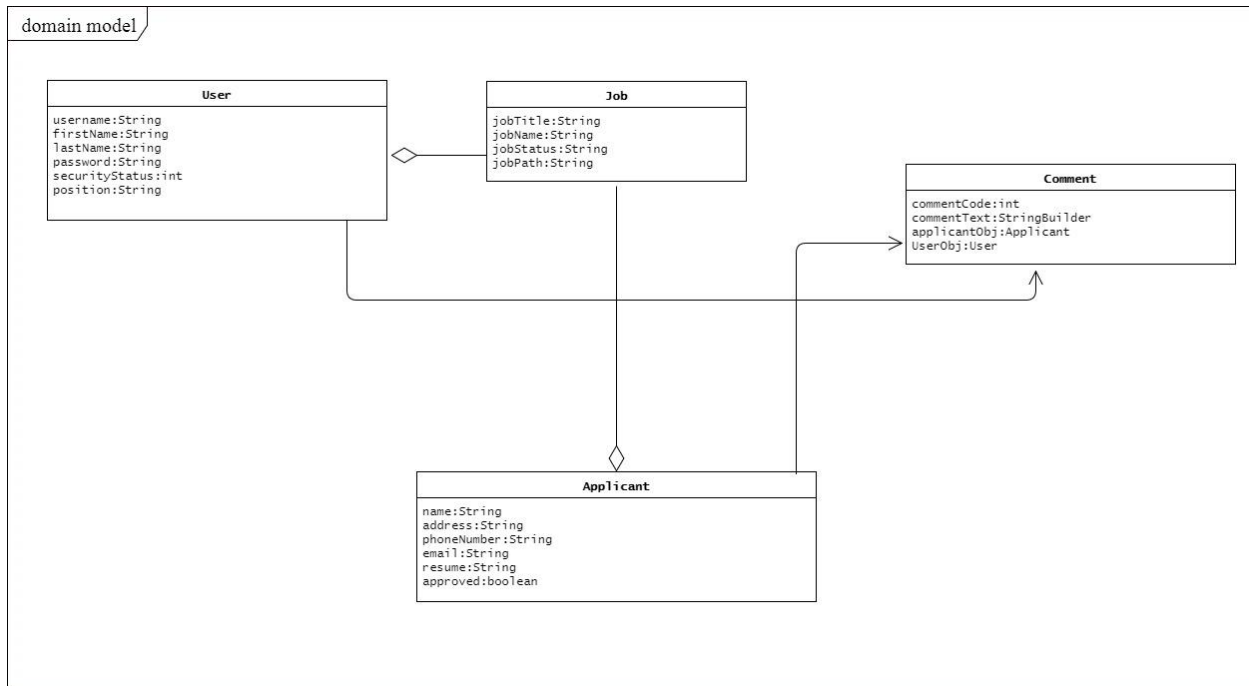


Fig-9: Domain/Conceptual Model for EARS

2.7 Activity Diagram

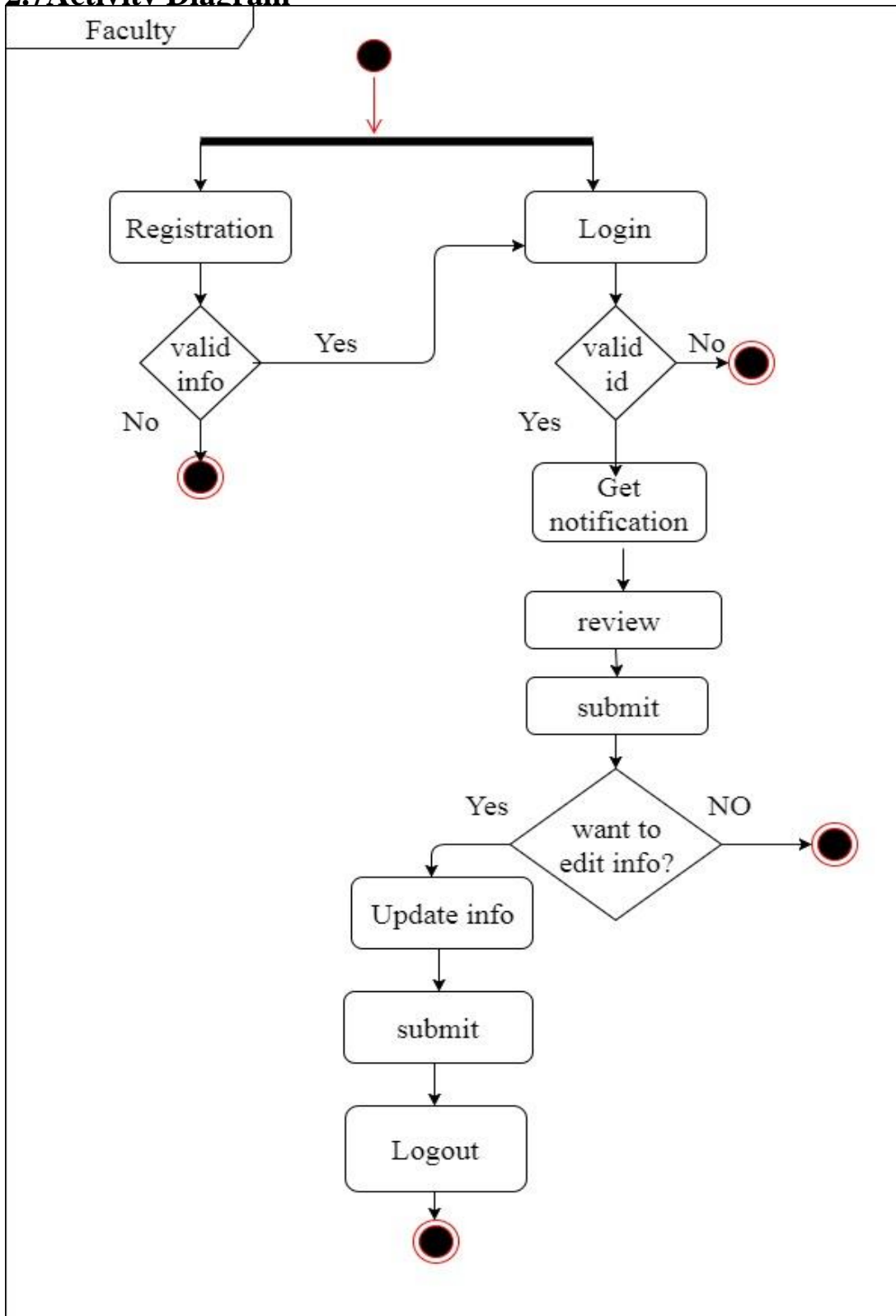


Fig-10: Activity Diagram for Faculty

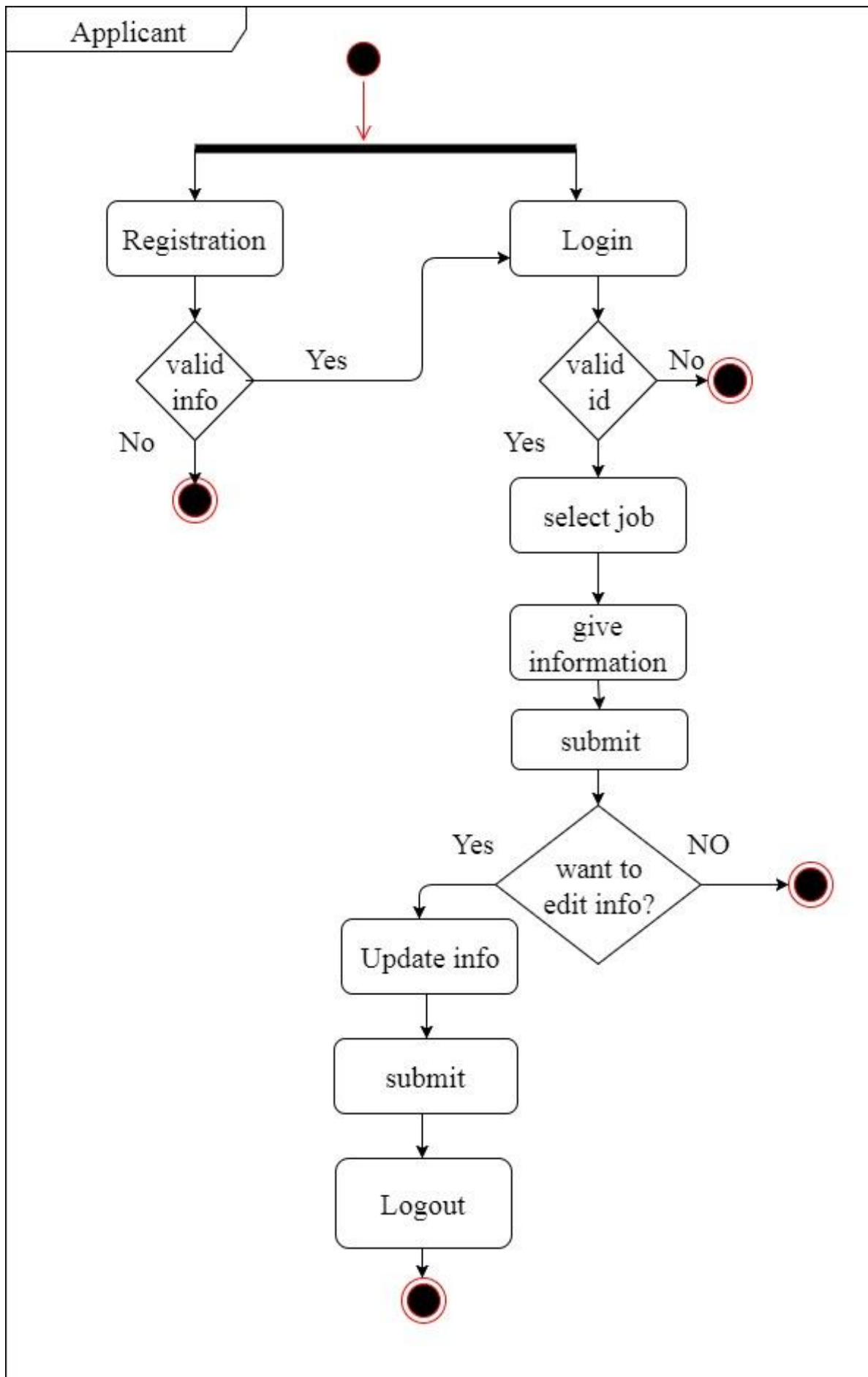


Fig-11: Activity Diagram for Applicant

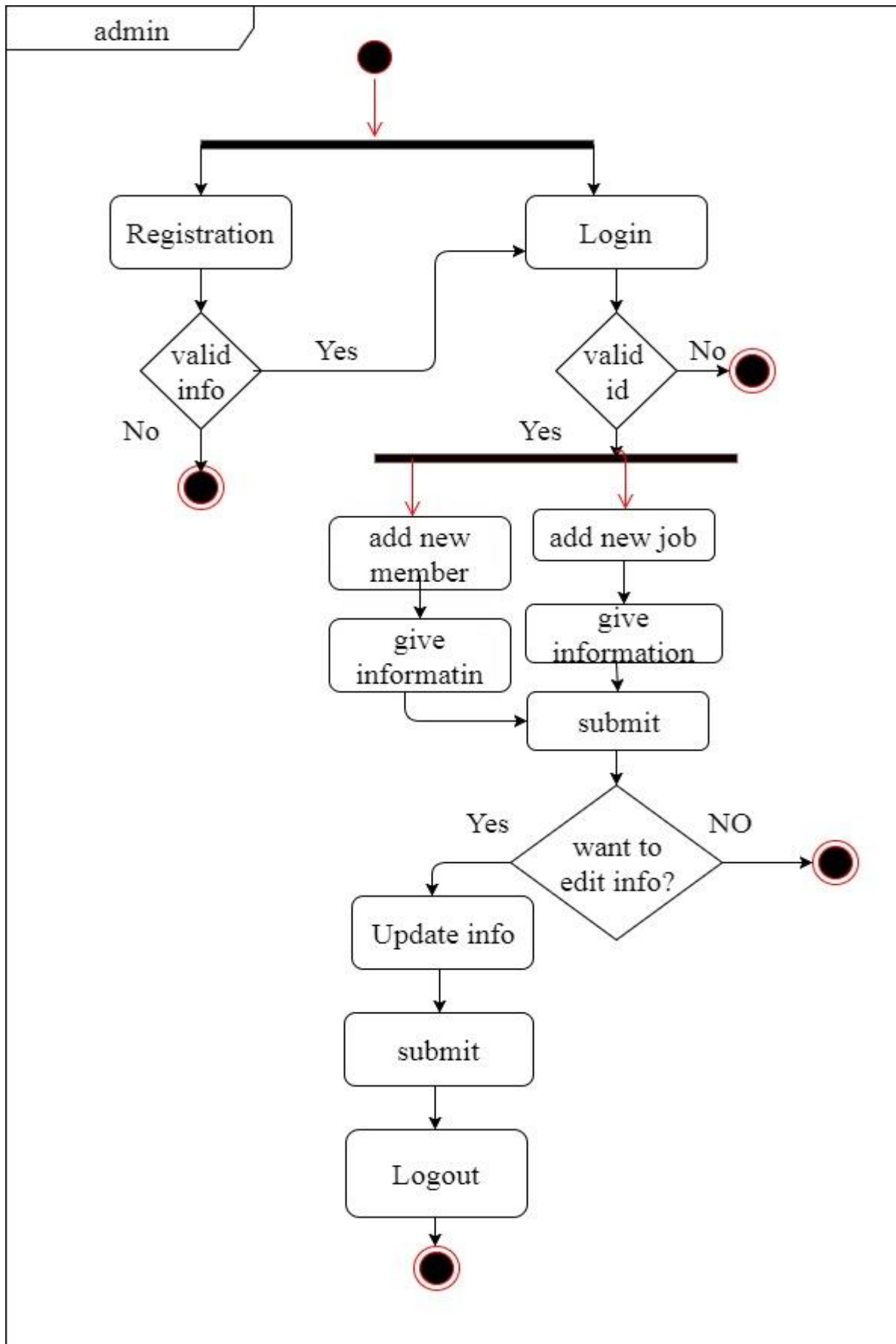


Fig-12₂₄

Activity Diagram for admin

Chapter 3: System Design

System Design

3.1 Sequence Diagram

3.1.1 Manage User

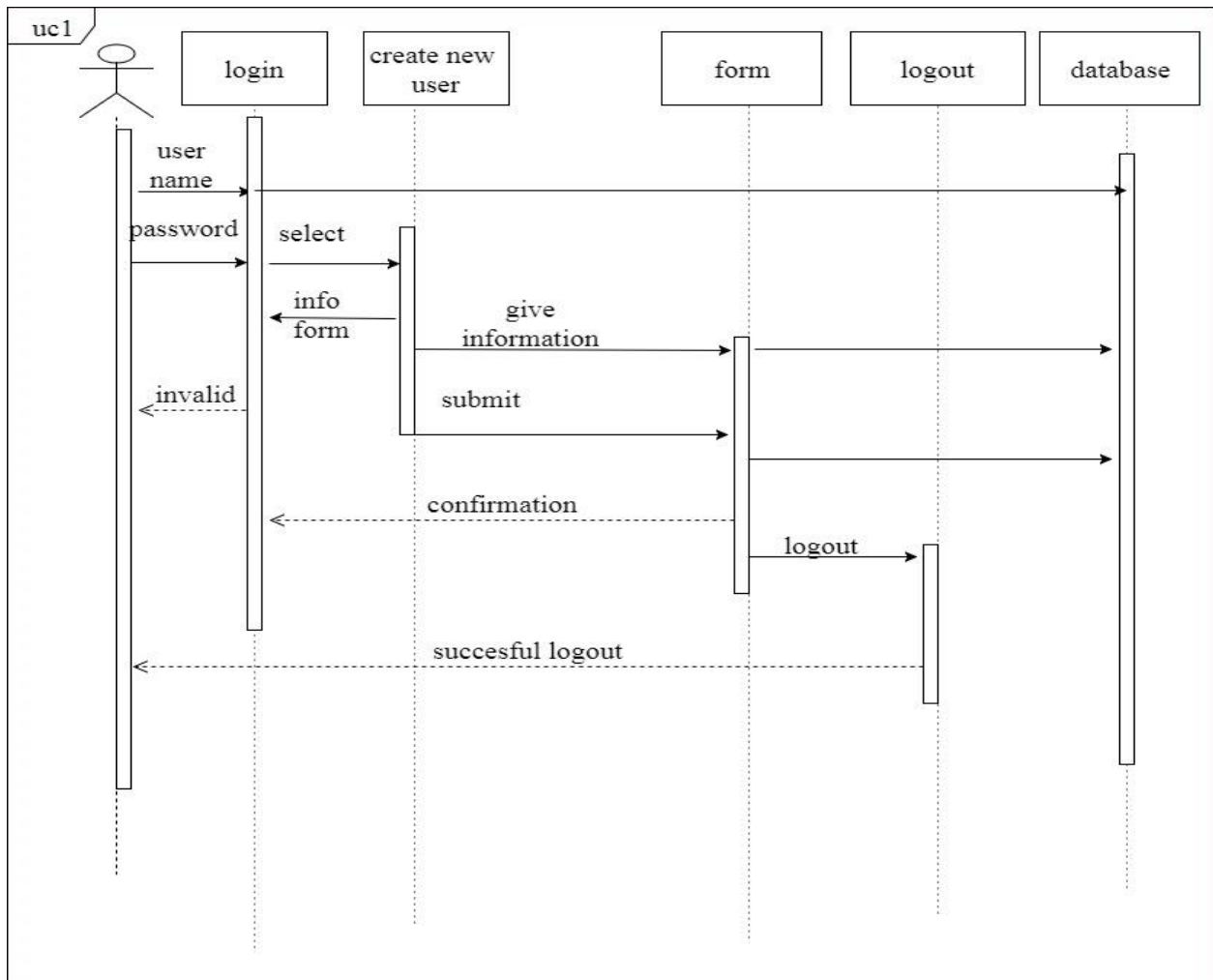


Fig-13: Sequence diagram for Manage User

3.1.2 Manage Account

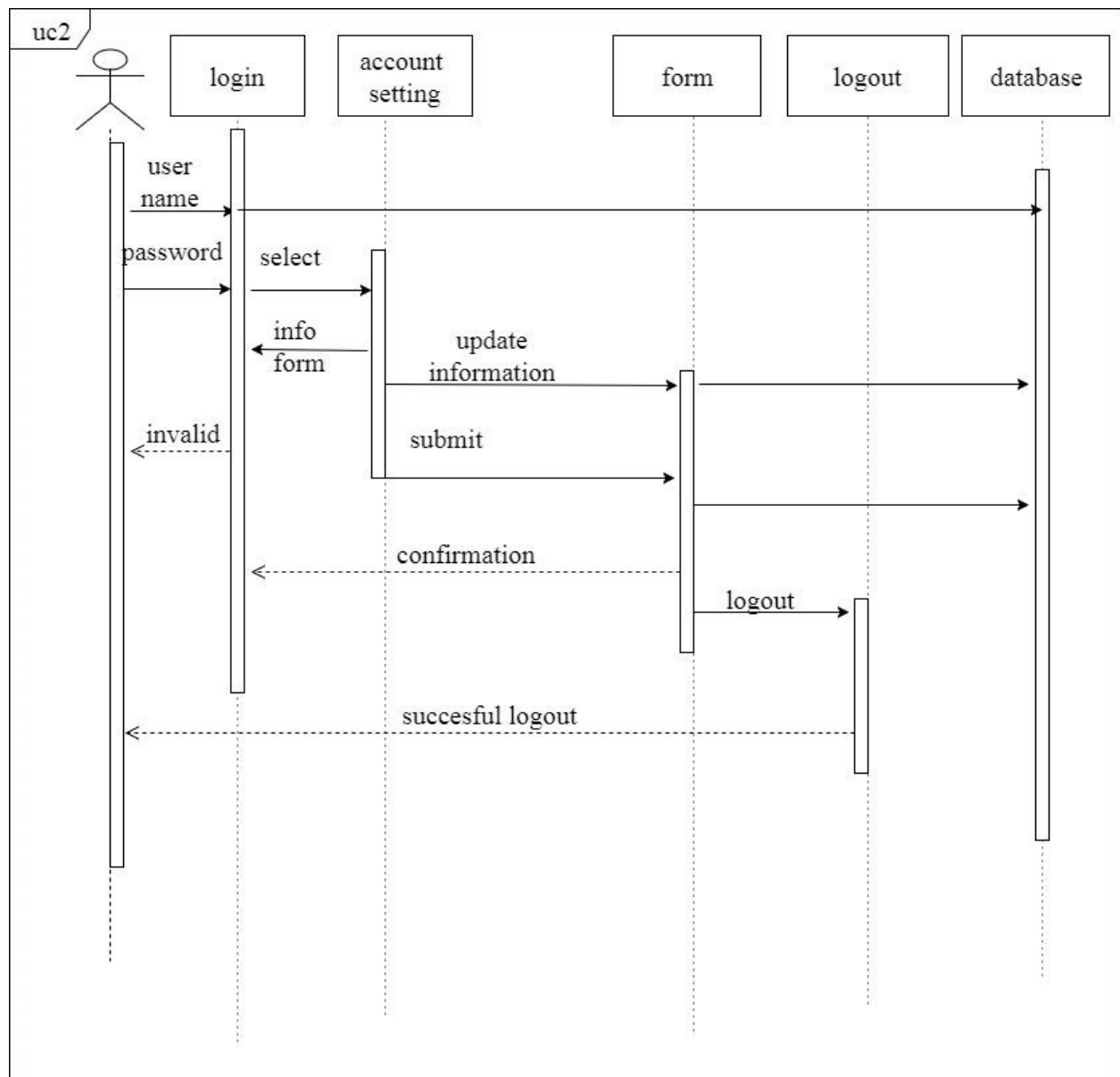


Fig-14: Sequence diagram for Manage account

3.1.3 Manage Application

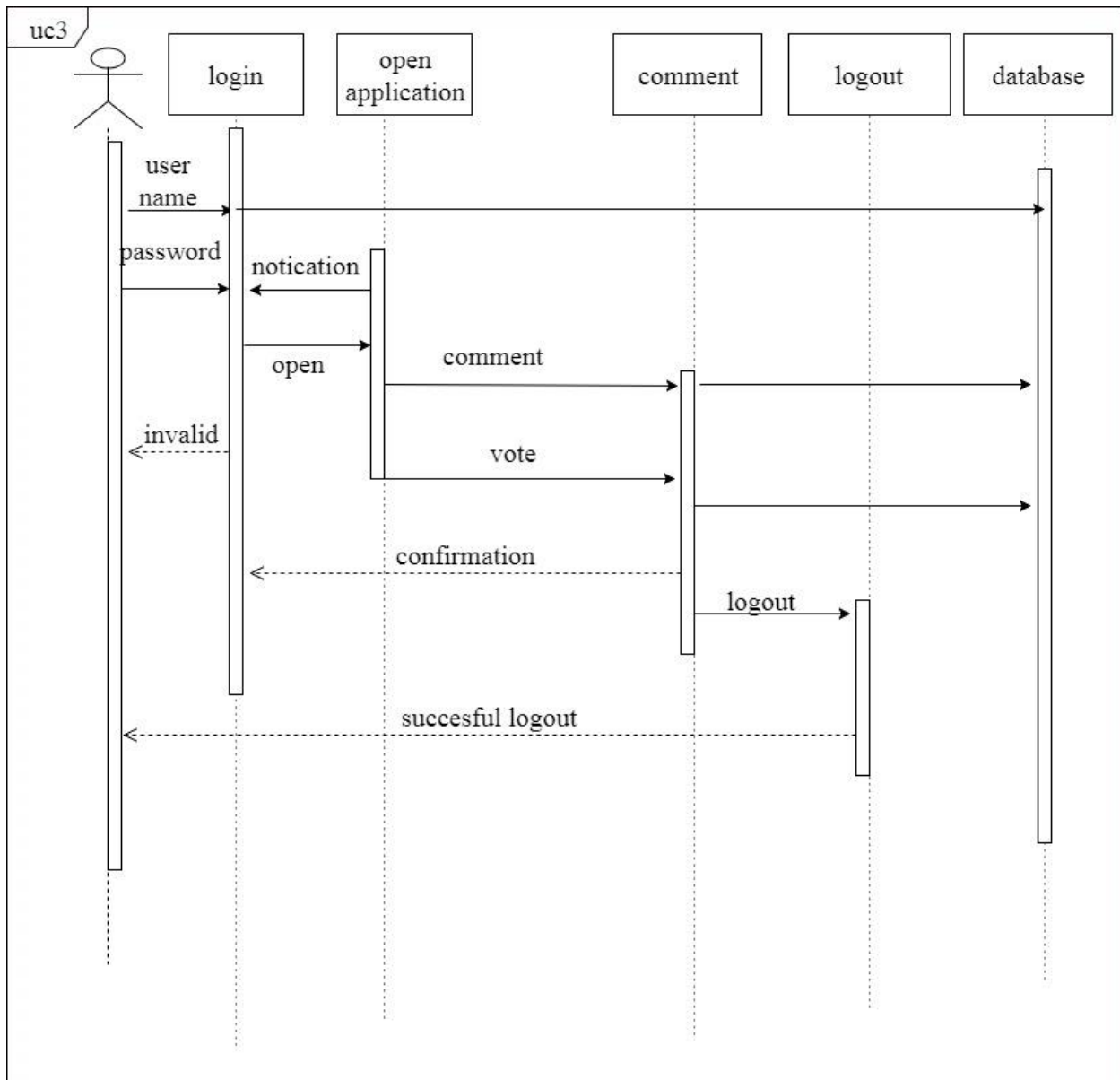


Fig-15: Sequence diagram for Manage application

3.1.4 Submit Application

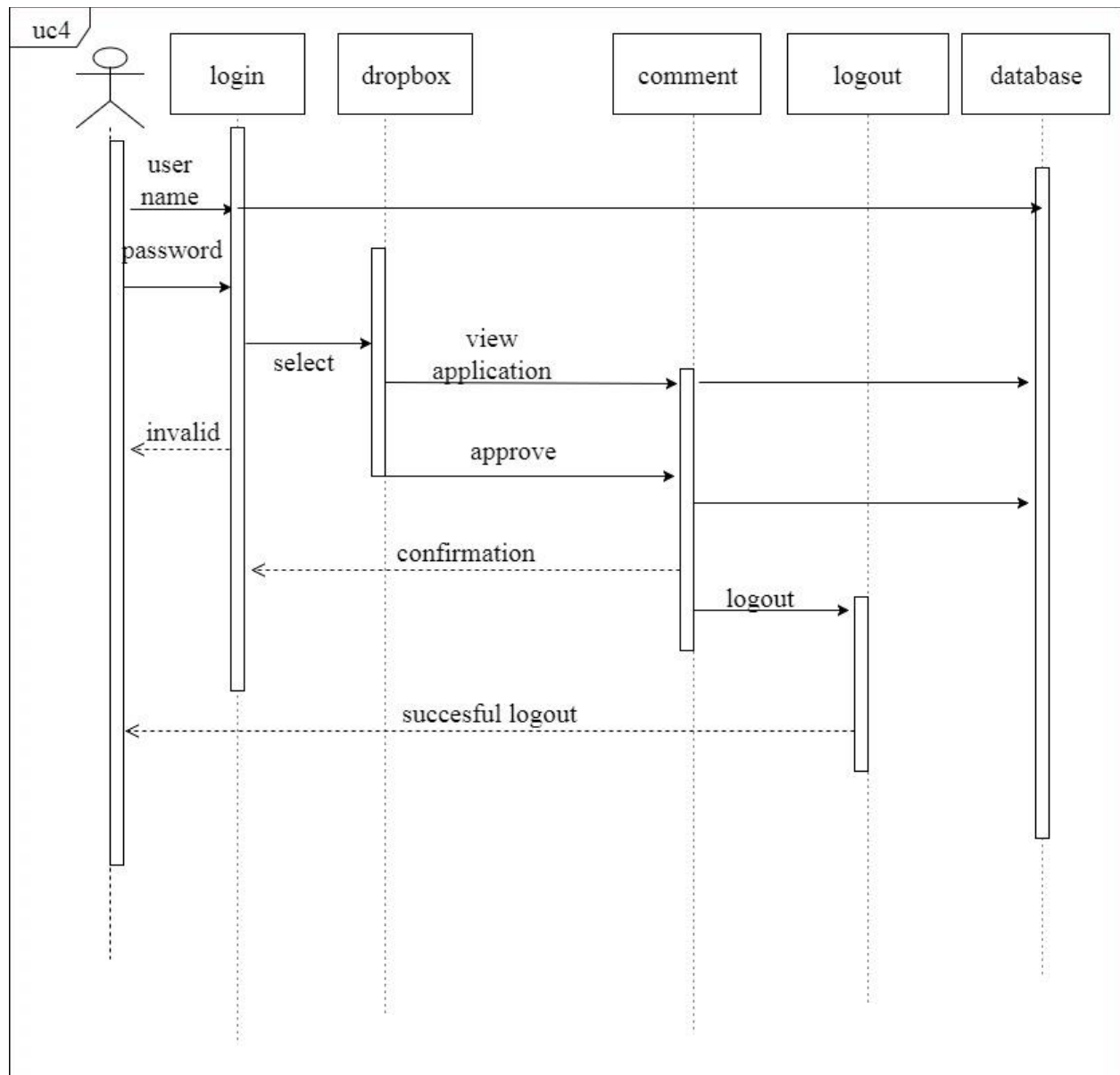


Fig-16: Sequence diagram for Submit Application

3.2 Class diagram

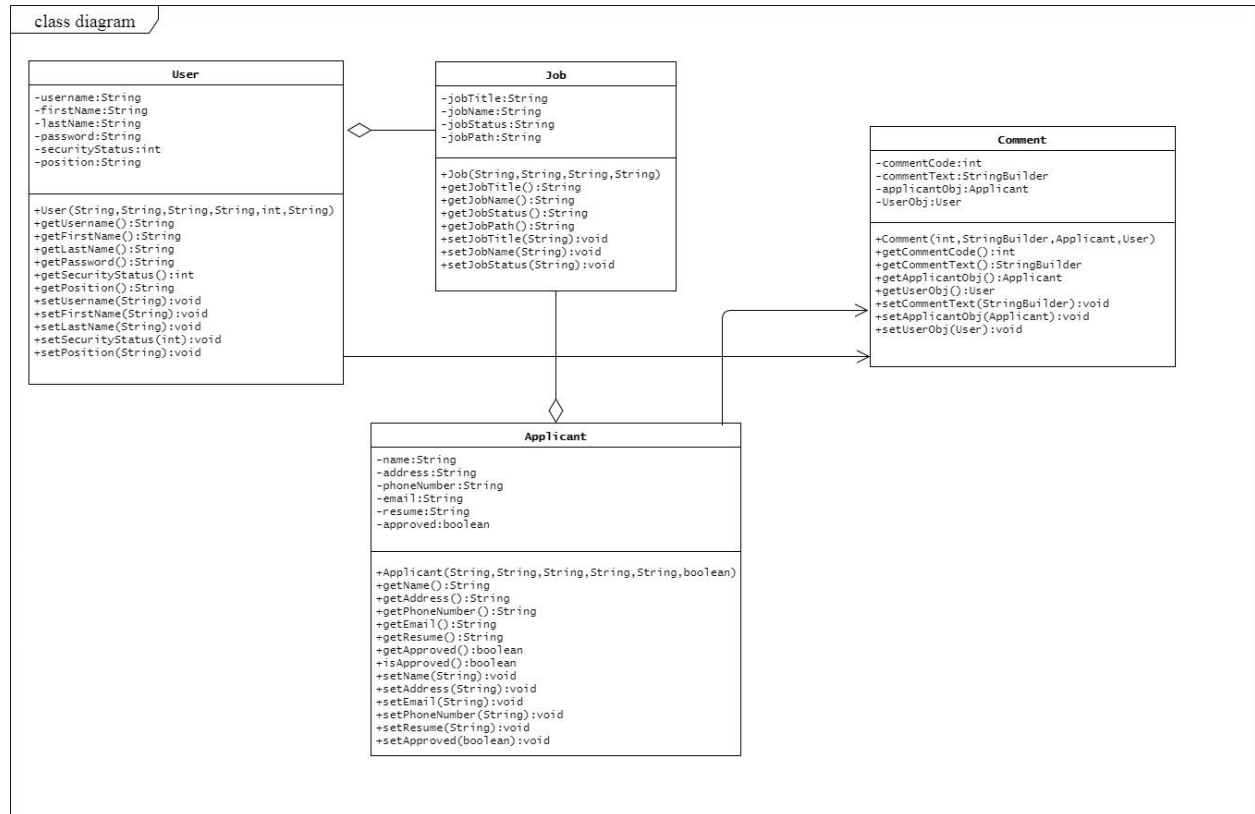


Fig-17: Class Diagram for EARS

