Object Oriented Software Development

PROJECT TITLE

Employment Application Review System

NAME: Shihab Nayem		ID:151-35-989	
Supervisor Name	:	Md Alamgir Kabir	
Department:	:	Software Engineering	
Faculty of Science and Information Technology			

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Chapter 1

Introduction

1. Introduction

The name of the system is Employment Application Review System(EARS). Where applicants will apply for the job and faculty members will list and review the applications of applicants, by doing that they can find the best applicant. This system can reduce a lot of workload from faculties.

1.1 About the System

Employment Application Review System

1.2 Purpose

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.

1.3 Scope

It's an EARS system. Here the system will manage users and the applicant can submit application for applying his job. Here will be an admin who can create account for the user and also can edit, update, delete user. Here user can search for particular information about faculty, job information etc. After submitting application authority will review it and provide result.

1.4 Vision

When anyone visit the system they will surely benefited. The vision of this system is to choose an applicant with every faculties review so that they can find the perfect applicant for the job and reducing the workload.

1.5 Why this system is necessary?

EARS is the system designed so that school faculty members can review applications and collaborate asynchronously in order to find the best applicant for a given job opening. This system is needed to choose a perfect applicant for the job. Another positive side is all the faculty members can participate on choosing that perfect applicant by reviewing their applications.

1.6 Proposed Solution

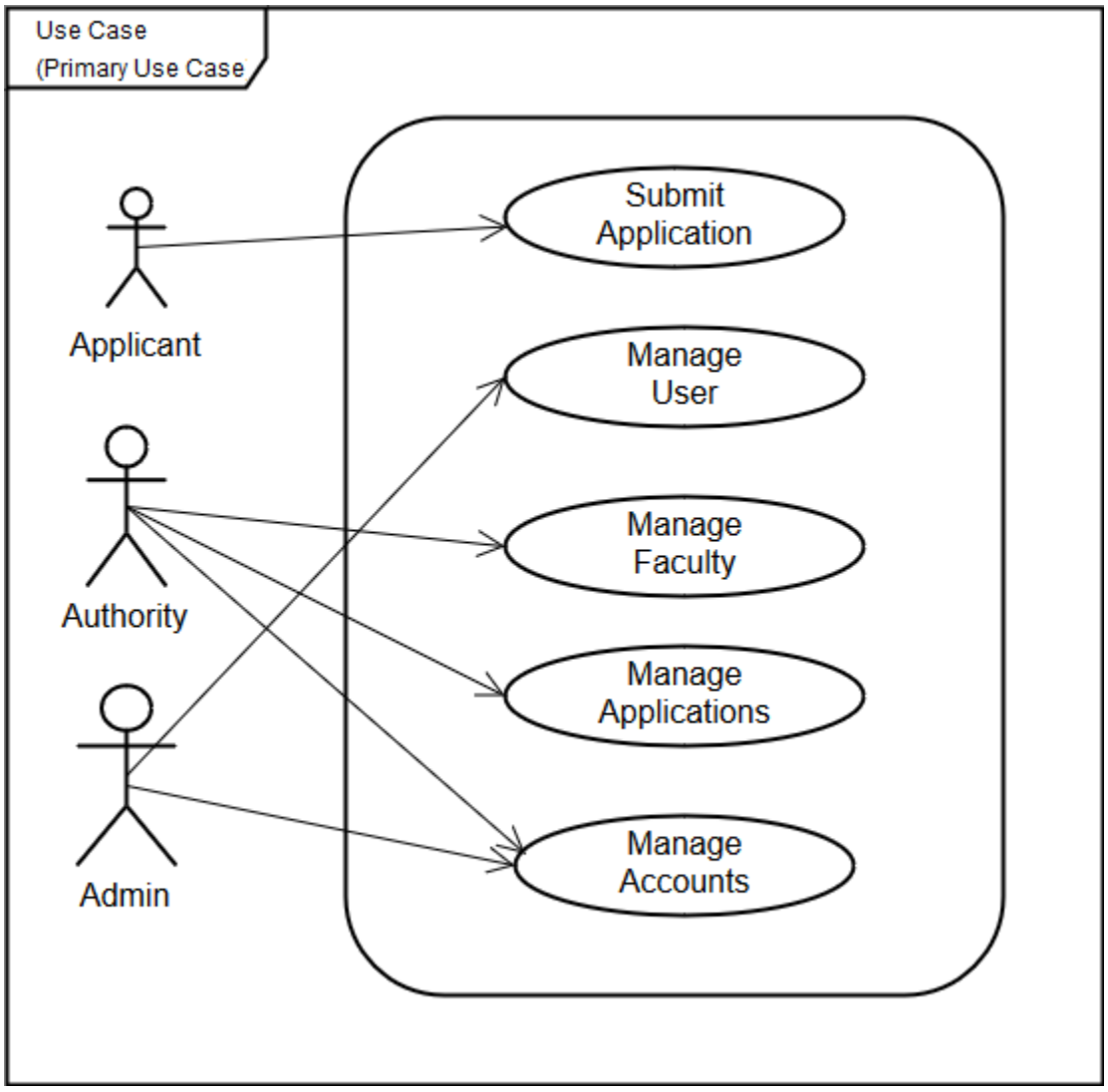
EARS make the top reviewed applicants list in ascending order. The faculty members just review and the applicants made automatically by following the reviewed order.

Chapter 2

System Analysis

2. System Analysis

2.1 Use Case Model



2.2 Actor Goal List

Actor	Goal
Applicant	Search for a particular job. Choose a job. Fill-up form properly. Submit application.
Authority	Review application. Authority will provide all kind of information. Manage list of accounts.
Admin	Manage users. Manage accounts.

2.3 Use Case Description (Brief)

2.3.1 Submit Application

Here the applicant can search for individual job and
the applicant can submit application for applying his job.
For applying applicant must need to create account and logged in.

2.3.2 Manage User

Here admin will manage account for the applicant.

Admin will create account for user and also can

Edit, update, delete user.

2.3.3 Manage Faculty

Here authority will manage the faculty.

Authority will provide all kind of information.

And user can see or search for information.

2.3.4 Manage Applications

Here applicant will apply for his job. Then authority will manage those applications. Authority will view applications comment on application and assign faculty review.

2.3.5 Manage Account

Here system user will manage all the accounts. For that,

System user must need to log in.

2.4 Use Case Description (Detailed)

2.4.1 Register Account

Use Case ID	1
Name	Submit Application
Primary Actor	Applicant.
Secondary Actor	Admin
Goal	Submit application successfully.
Precondition	Applicant should eligible for the post and he/she must have to desire certificate for applying on this post.
Post Condition	Admin will accept the application and Authority will review after submitting the application**.**
Main Success Scenario	1.1 Applicant must need to create an account for apply. 1.2 Applicant needs to choose circular and apply on this. 1.3 Applicant need to fill up all the required filed properly.
Scenario Extensions	1.1.1 Without register applicant can't apply for any job. 1.1.2 Jobs must need to available. 1.1.3 Admin must need to post for jobs. 1.1.4 Providing wrong information.

2.4.2 Manage User

Use Case ID	2
Name	Manage user.
Primary Actor	Admin
Secondary Actor	User
Goal	Manage user successfully.
Precondition	System user must need a valid id, password for log in who is authorized from authority.
Post Condition	Admin need to maintain applicant submitted application and not permitted to erase or modify any data.
Main Success Scenario	1.4 The entire system user needs an account which will verify by authority. 1.5 Admin will collect user data properly and provide them to the authority. 1.6 For changing any information admin must need to notify users.
Scenario Extensions	1.1.5 System user must have an id and password. 1.1.6 Admin should provide all the information properly. 1.1.7 Admin can't give any confirmation without the decision of the authority.

2.4.3 Manage Faculty

Use Case ID	3
Name	Manage Faculty.
Primary Actor	Authority.
Secondary Actor	Admin
Goal	Manage faculty successfully.
Precondition	Desired information should be available.
Post Condition	Faculty information must need available.
Main Success Scenario	1.7 System user must be authorized. 1.8 Authority will give account to the system user.
Scenario Extensions	1.1.8 If system user is not authorized. 1.1.9 If user not registered. 1.1.10 If the faculty members information does not exist in the system user can't search.

2.4.4 Manage Applications

Use Case ID	4
Name	Manage Applications.
Primary Actor	Authority.
Secondary Actor	Applicant.
Goal	Here authority will manage applications and review.
Precondition	Application must need to submit.
Post Condition	Authority must need to review the applications.
Main Success Scenario	1.9 Applicant need to register. 1.10 Applicant need to apply on jobs and need to submit application. 1.11 System admin confirm pick up the application. 1.12 Authority will review the application. 1.13 Authority will make a decision. 1.14 Applicant will notified about the decision taken by authority.
Scenario Extensions	1.1.11 If applicant not registered. 1.1.12 If applicant not properly submit the application. 1.1.13 If authority not review the application.

2.4.5 Manage Applications

Use Case ID	5
Name	Manage Accounts.
Primary Actor	Admin.
Secondary Actor	Authority.
Goal	Here authority and admin will manage accounts.
Precondition	System admin must be logged in to manage the account.
Post Condition	Admin should provide applicant account information, contact, etc.
Main Success Scenario	1.15 System user must need log in 1.16 System admin will confirm the applicant information. 1.17 System admin will provide the information to the authority.
Scenario Extensions	1.1.14 System user not logged in. 1.1.15 If applicant missed any required information. 1.1.16 If admin not confirm applicants information.

2.5 System Sequence Diagrams

2.5.1 Submit Applications

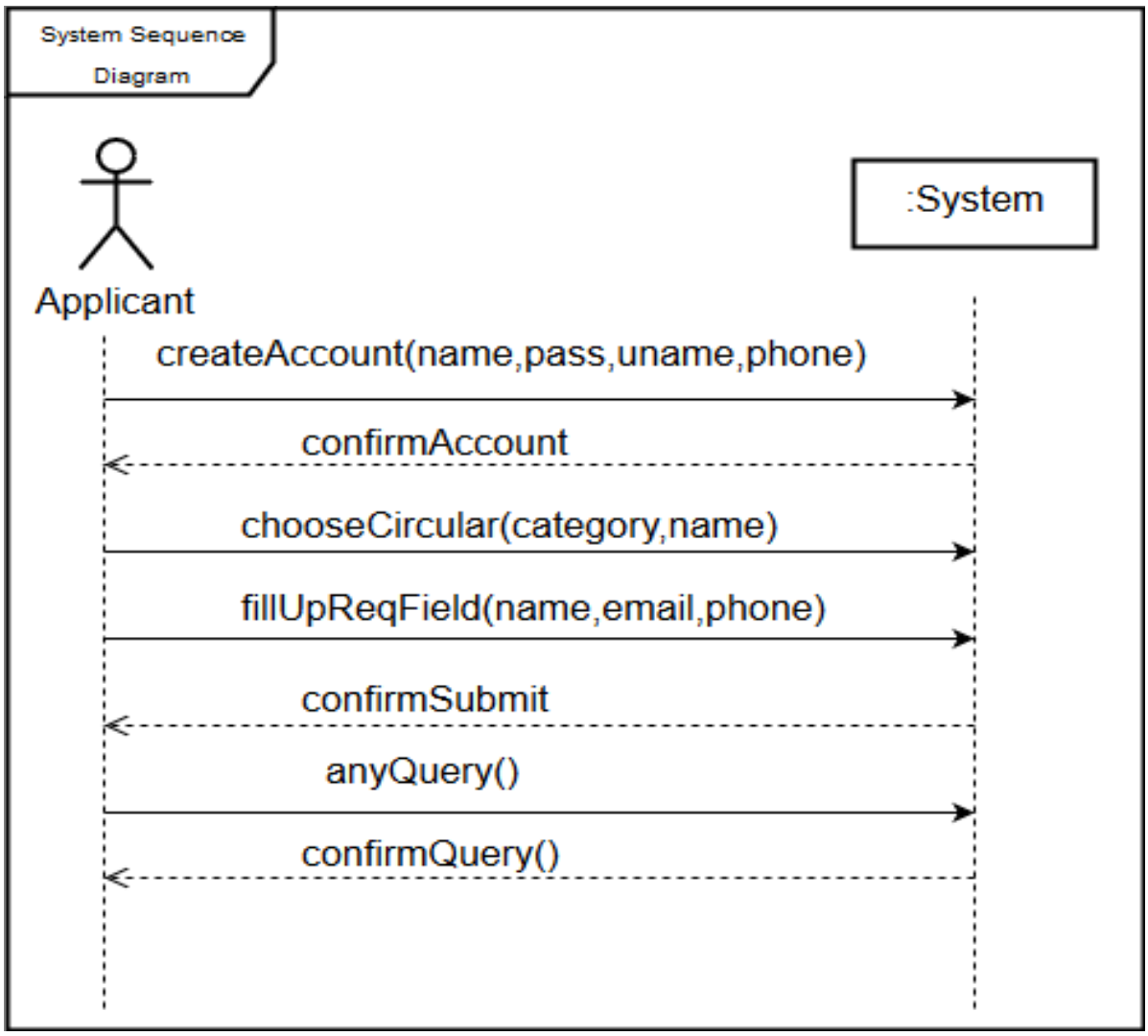


Figure: SSD to Submit Applications

2.5.2 Manage User

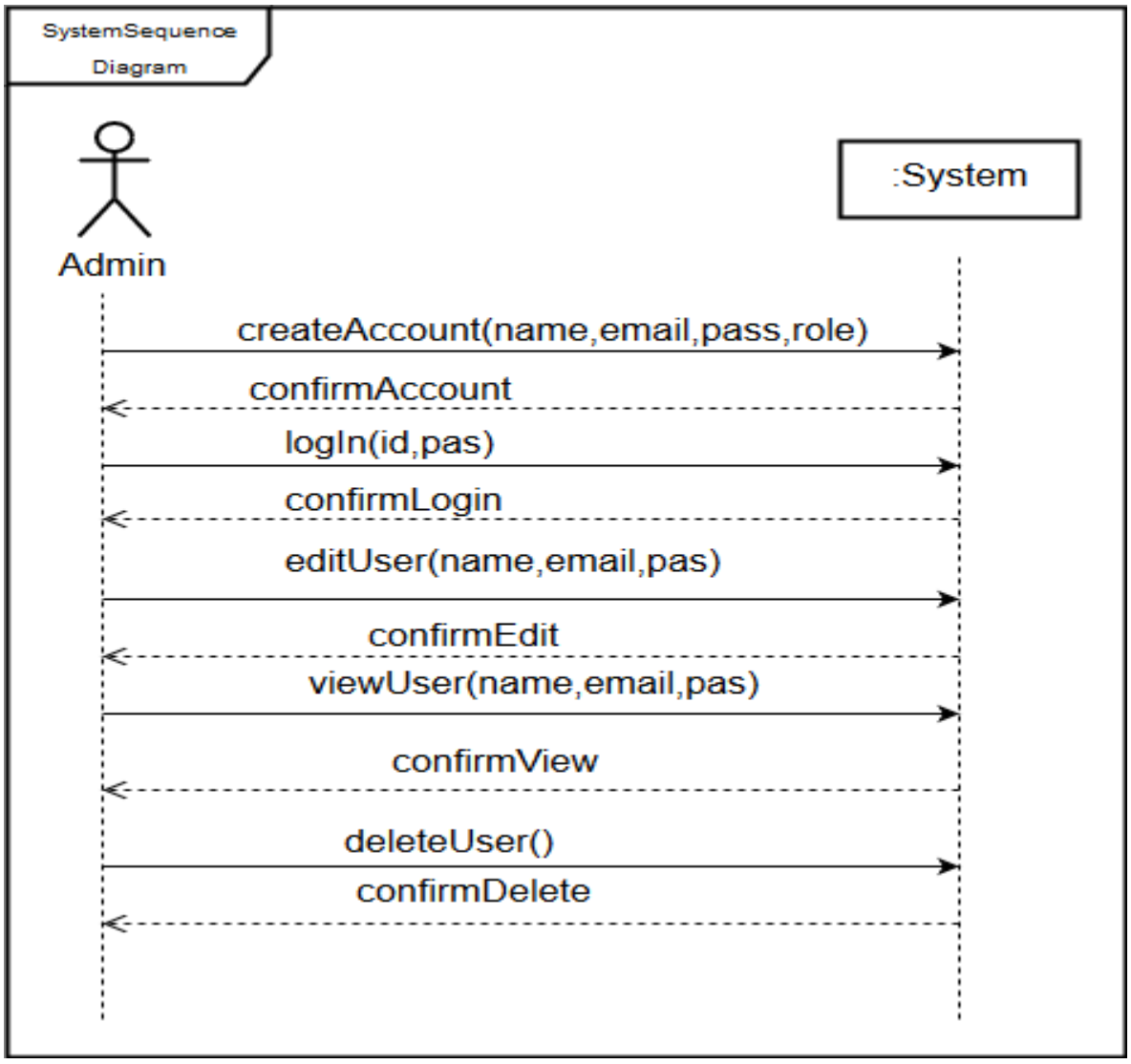


Figure: SSD to Manage User

2.5.3 Manage Faculty

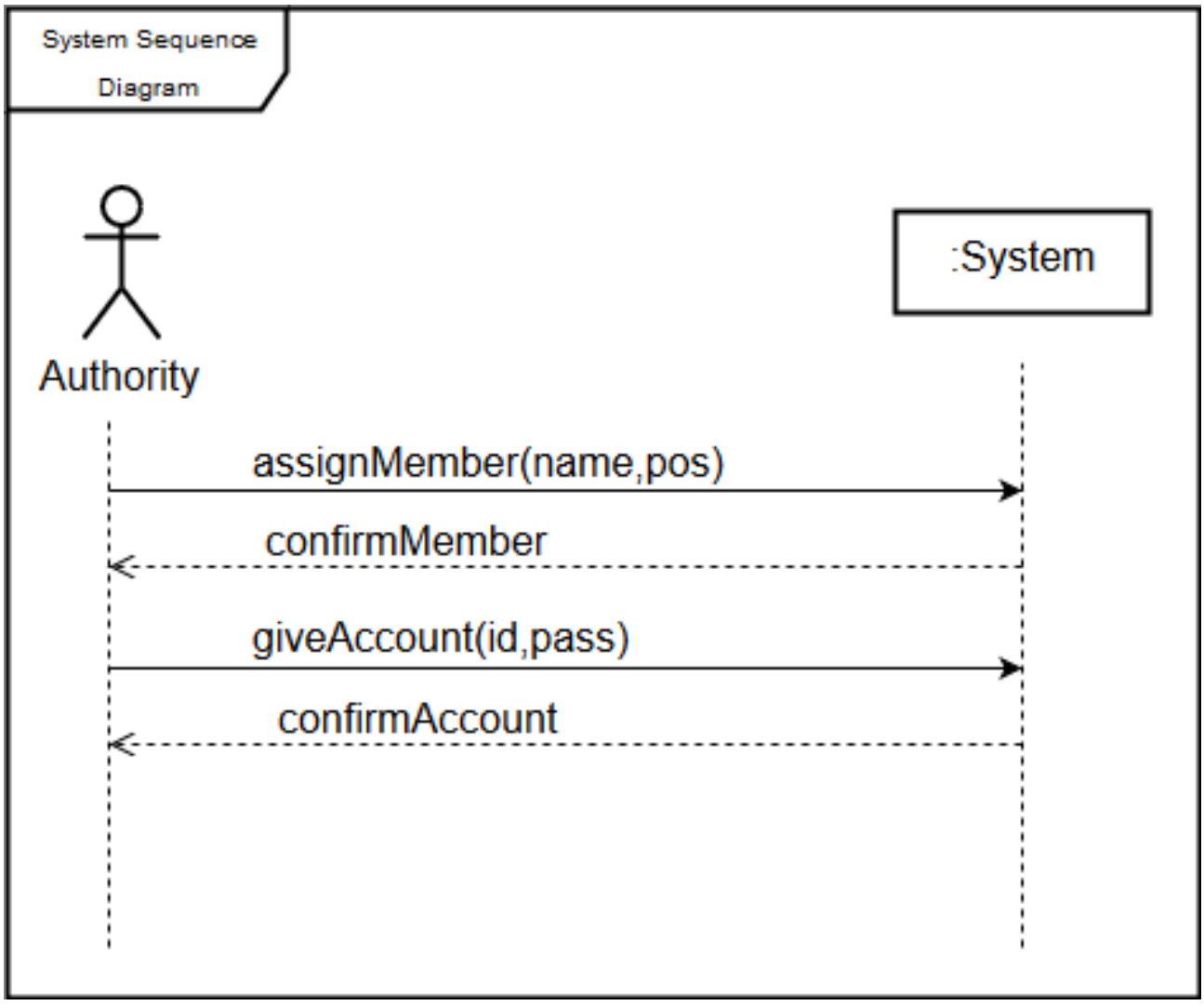


Figure: SSD to Manage Faculty

2.5.4 Manage Applications

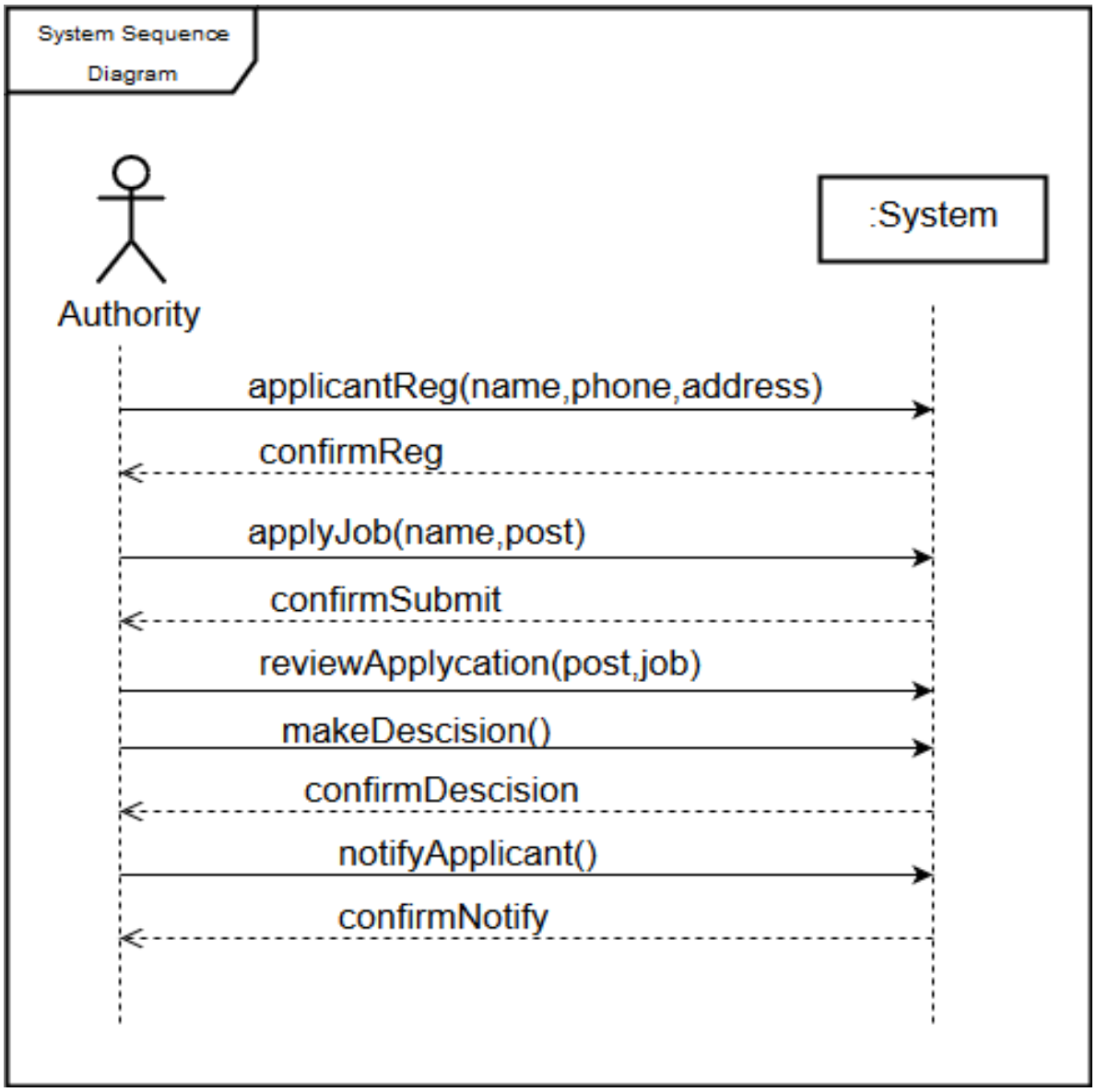


Figure: SSD to Manage Applications

2.5.5 Manage Accounts

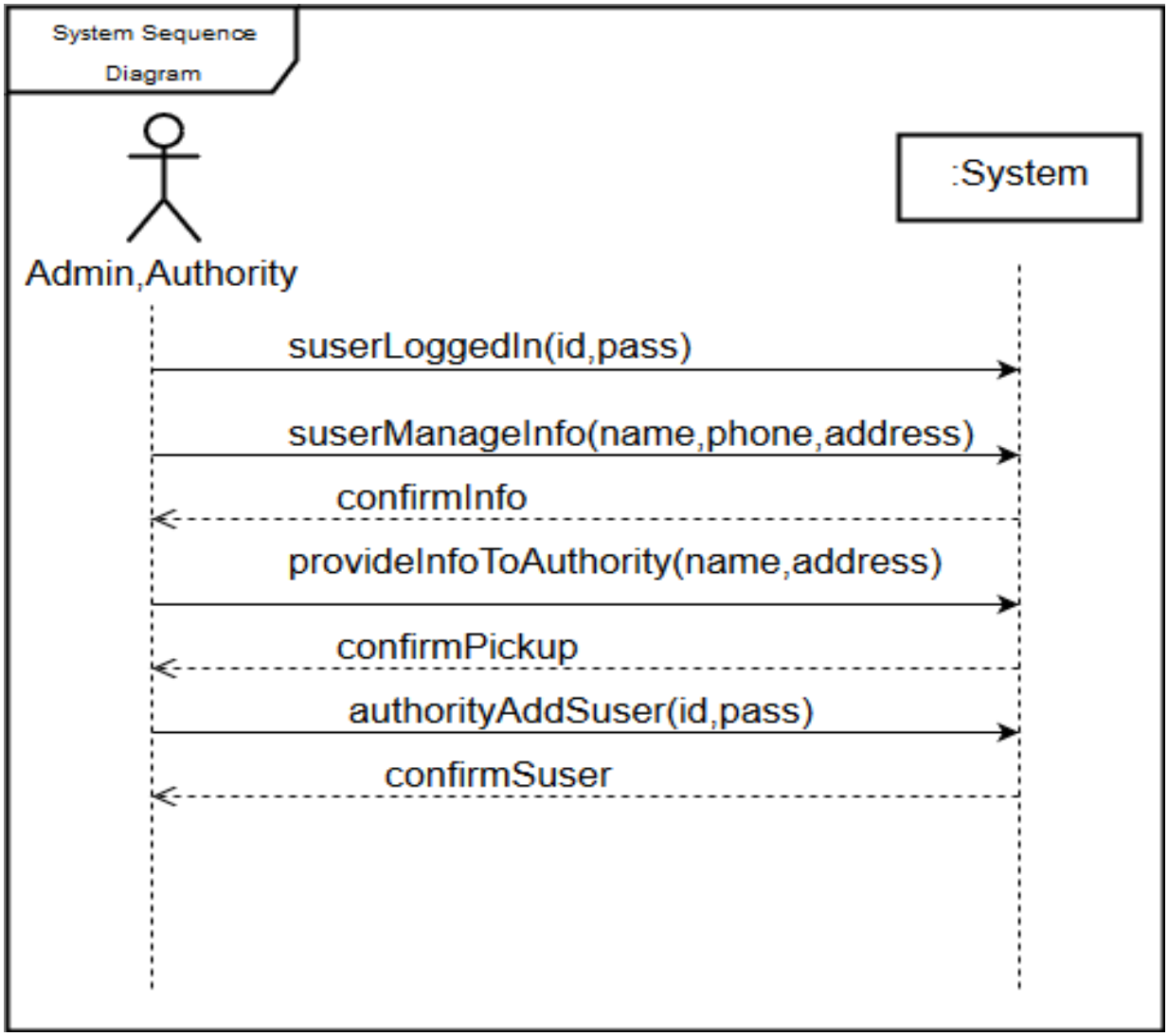


Figure: SSD to Manage Accounts

2.6 Domain/Conceptual Model

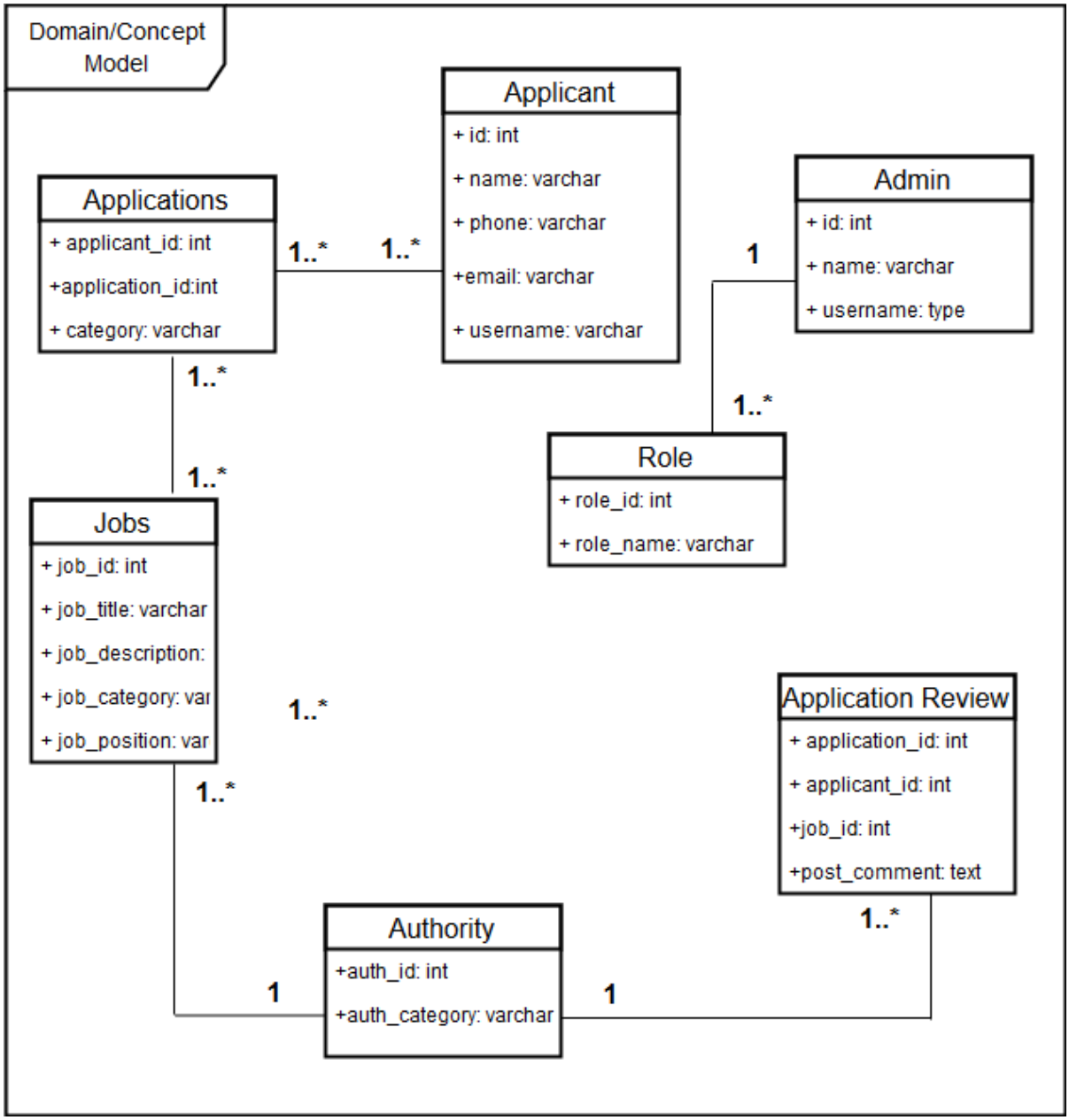


Figure: System Domain Model

2.7 Activity diagram

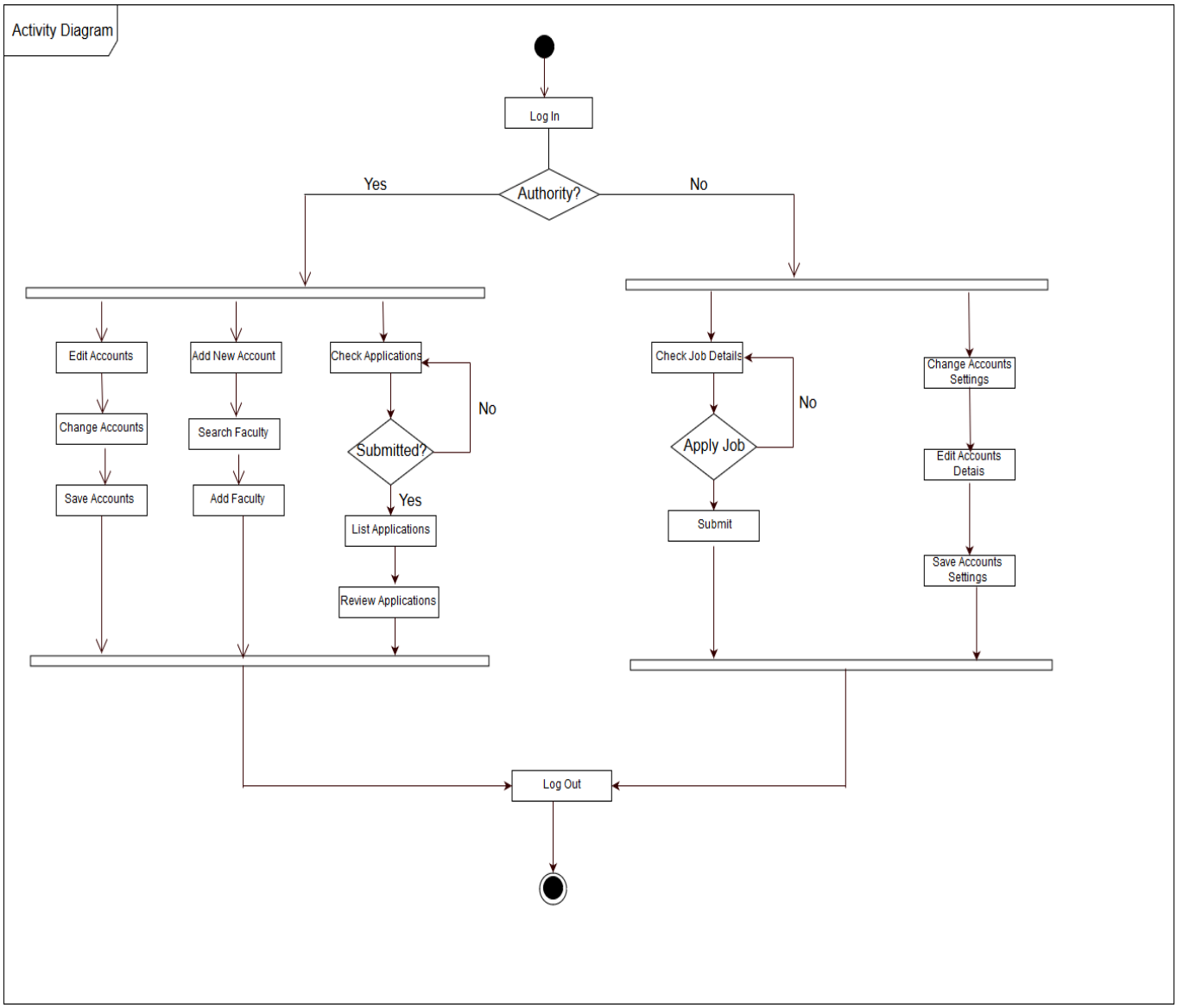


Figure: Activity Diagram of the system

Chapter 3

System Design

3. System Design

3.1 Sequence Diagrams

3.1.1 Manage Account, Manage User

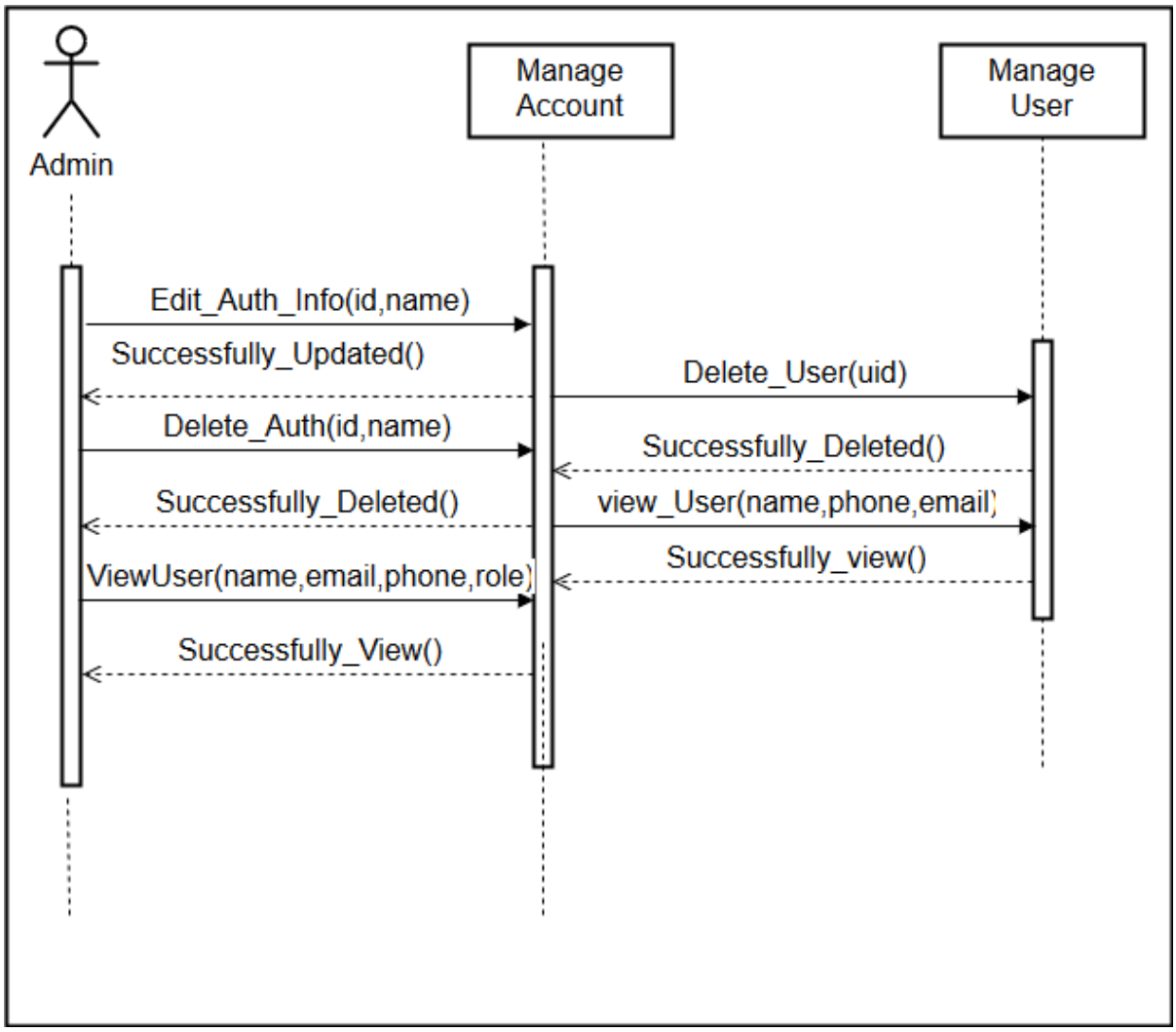


Figure: SD to Manage Account, Manage user

3.1.2 Manage Account, Manage Faculty, Manage Applications

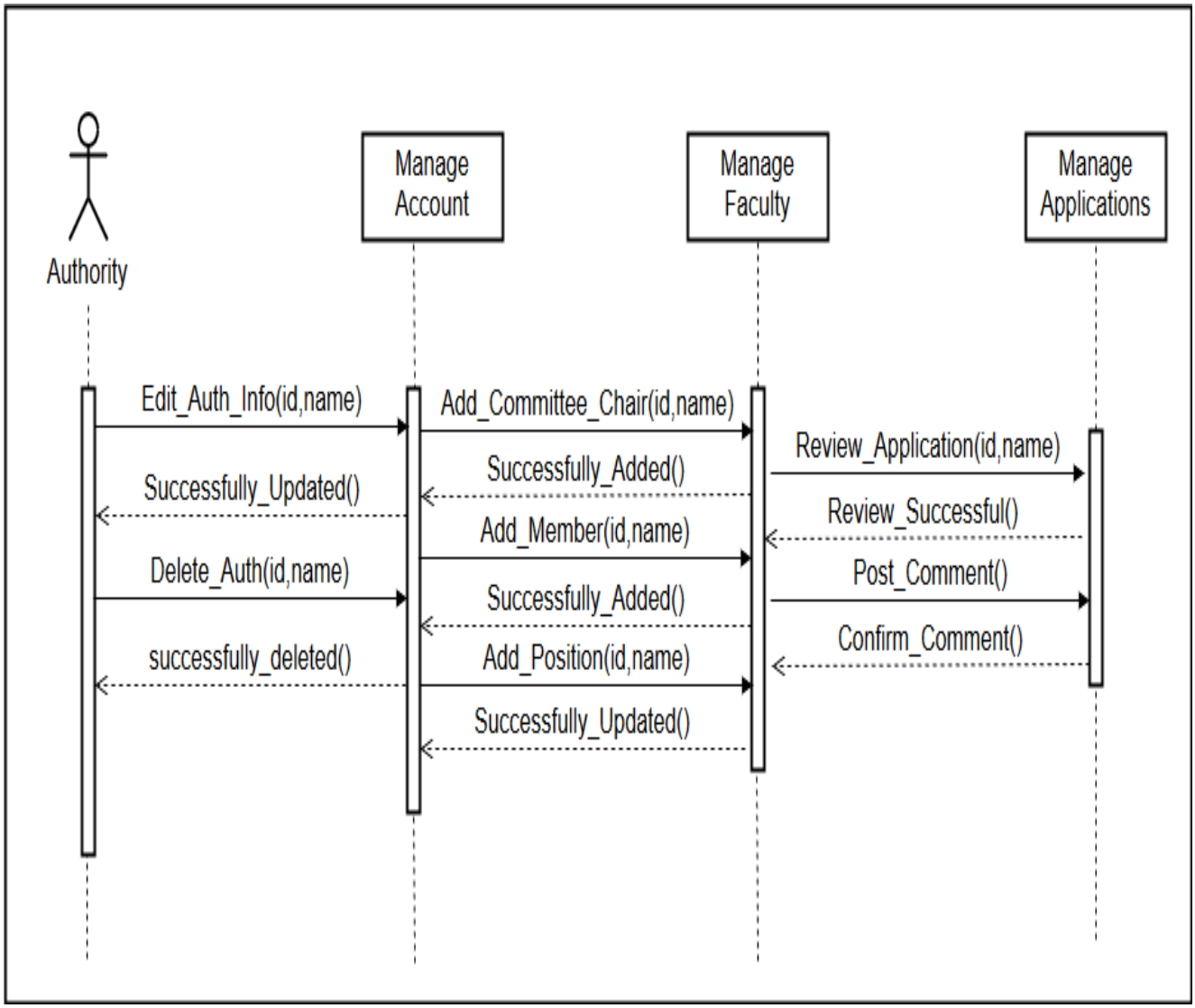


Figure: SD to Manage Account, Manage Faculty, Manage Applications

3.1.3 Submit Application

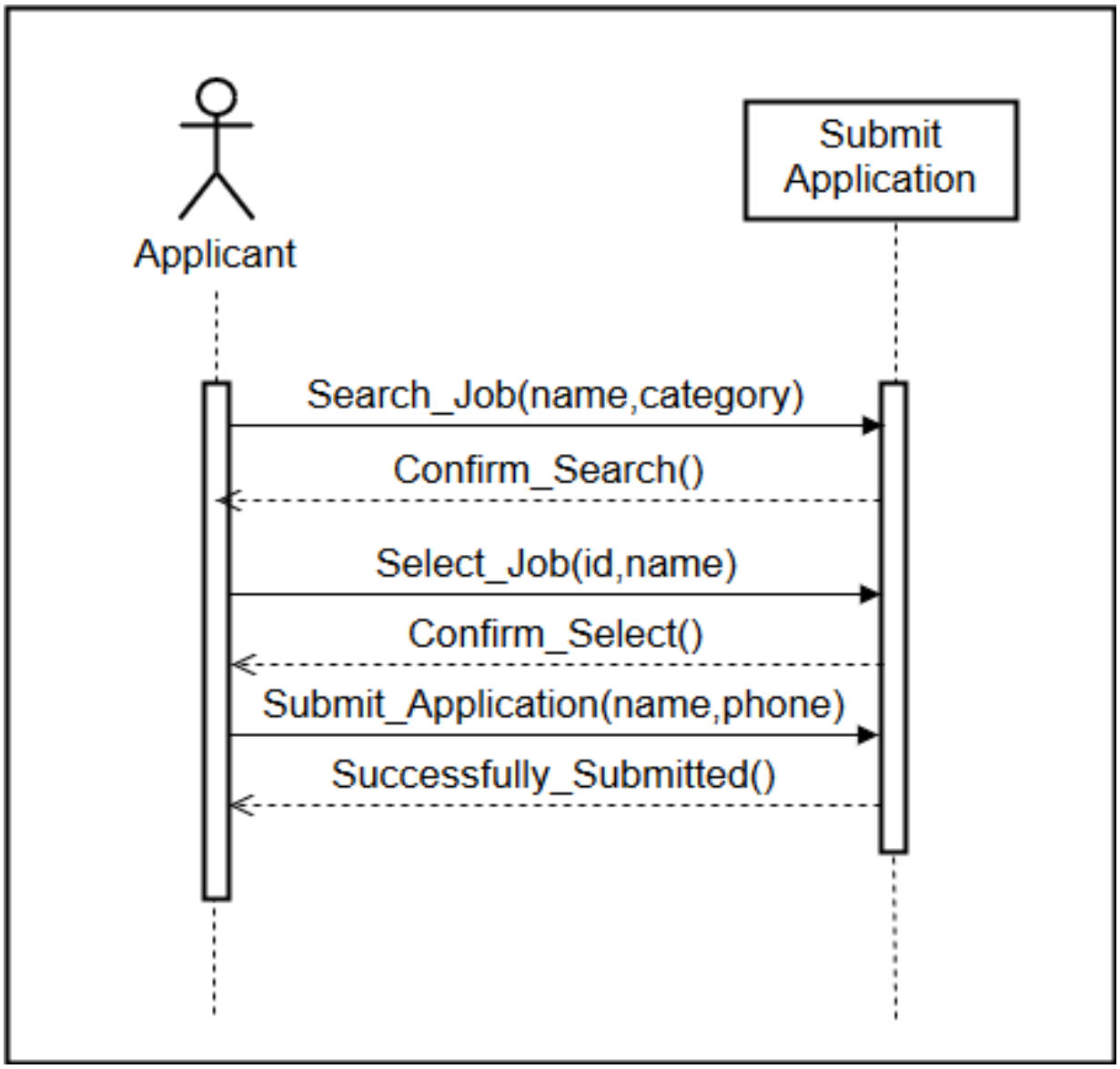


Figure 3.1 SD to Submit Applications

3.2 Class Diagram

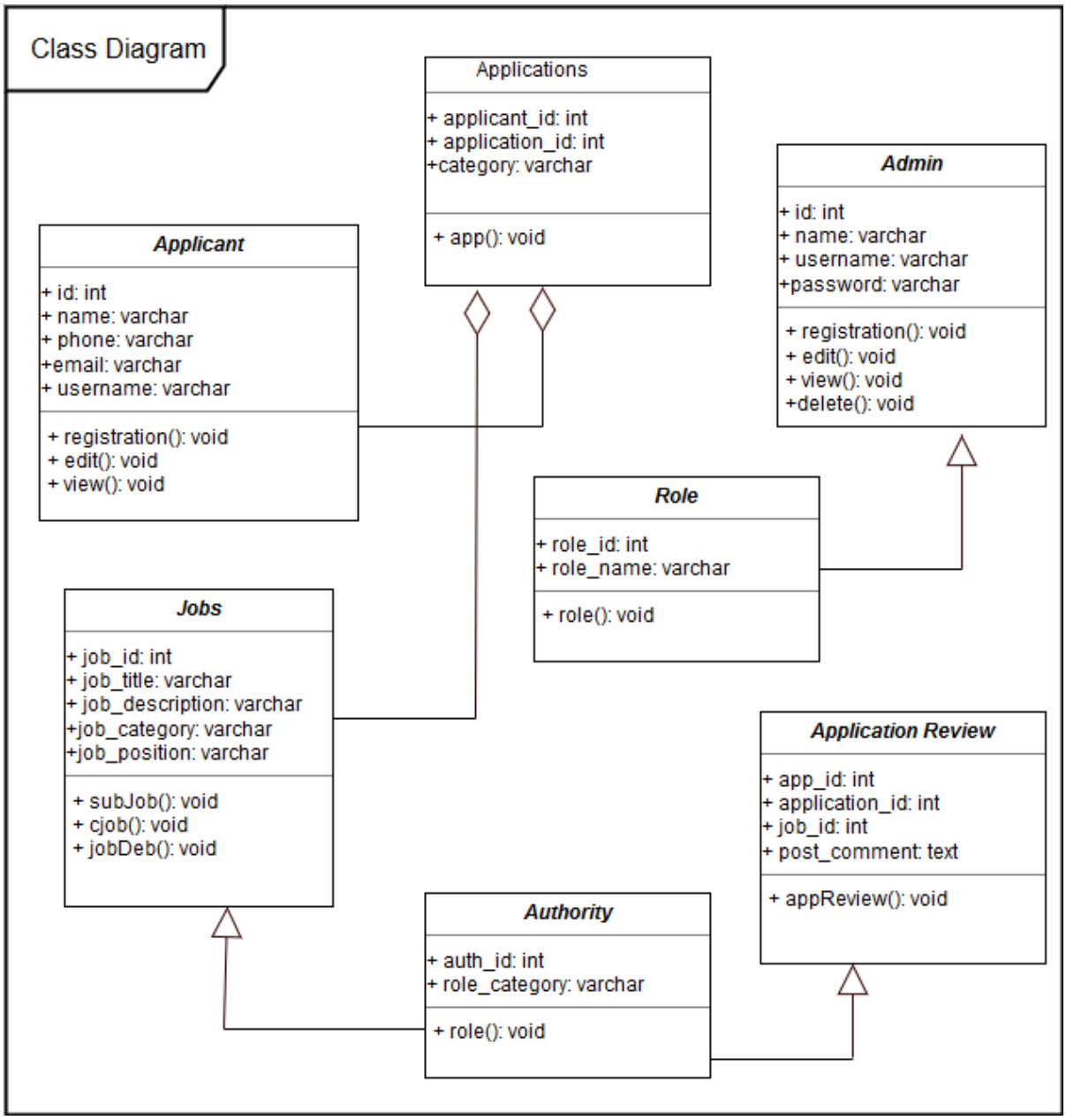


Figure: Class Diagram of System

Chapter 4

Implementation

4. Implementation

4.1 Tools &Technologies

For developing this system what tools and technologies will be used are given below:

Framework: Codeigniter

Programming Language: PHP

Server: XAMPP

Draw.io

HTML5,CSS, Bootstrap..