SRS Document

For

< Faculty Research Portfolio System >

Version <2.0>

Prepared by

Group Name: *< Team 1 >*

<Alajmi, Rayan>	<201436120>	<s201436120@kfupm.edu.sa>
<Alswailem, Mohammed>	<201336010>	<s201336010@kfupm.edu.sa>
<Alshoshan, Abdullah>	<201442960>	<s201442960@kfupm.edu.sa>

Instructor: *<Dr. Hamdi Aljumaymi>*

Course: *<SWE363>*

Section: *<02>*

Date: *<March, 9, 2018>*

Project Leader: *<Alajmi, Rayan>*

Table of Contents

1. Introduction

i.   PURPOSE:

This document outlines the vision for the software of a Faculty research portfolio system where researchers and faculty members can develop and maintain their own research portfolios and generate various types of reports.
The purposes of this document are to:

- Gathering and identifying requirements.
- Listing down the key features of our program.
- Identifying different stakeholders and describing them.
- Identifying any constraints to the proposed software.

ii.   SCOPE

The "Faculty Research portfolio system" is a website where the user domain is researchers and faculty member of various universities and researches centers. Where they can add their publication such as articles, reports, and many more. They can also manage their profiles to specify what will be published.

iii.   PROBLEM STATEMENT:

The aim of this project is to develop a web-based unified system that can be adopted within the Department to manage the members' research portfolios and generate various types of reports.

iv.   PROJECT Goals

- Keep track of Faculty and researchers portfolios
- Generate resumes for the users
- Generate websites for users
- Generate reports for the admins

v.   Product Overview:

The aim of this product is to develop a web-based unified system that can be adopted within the department to manage the members' research portfolios and generate various types of reports. The faculty can manage their profiles by adding their publication and generate their resume by selecting a template offered by the system, then the system will take info from their profiles. The system visitor have the ability to view faculty profiles and publication.

2. Overall Description

i. Organization and Content of the Website

1- Faculty view
    1.1 profile

    1.2 publications

    1.3 memberships

2- Admin view
    2.1 reports generation

    2.2 portfolio request control

3- Anonymous access view
    3.1 publication search
    3.2 view faculty portfolio
    3.3 view statistics

ii. Stakeholders, Users and User Characteristics

2.1.1 Stakeholders

1- Saudi Arabian government: The government is related to the software by the rules and regulations they stated in the countries regulation.
2- KFUPM as an organization: KFUPM is the owner of the software and they will manage the system.
3- Universities faculty and researchers: They are the target users of the software.
4- Generic users: People who are interested in viewing the faculty portfolios.

2.1.2 Users and User Characteristics

User Characteristics	Main functionalities	Typical computer literacy	Typical educational background	Expected frequency usage of the system	Notes
Faculty & researcher	Managing their portfolios	Familiar with computer	Bachelor-Doctorate	Multiple times a month	
Generic users	View faculty profile, publication and statistics	Familiar with computer	High school - Doctorate	weekly	Anyone interested in viewing faculty profile and researches
Admins	Manage and maintain the system	Experience	Bachelor	Daily	

vi. General Constraints
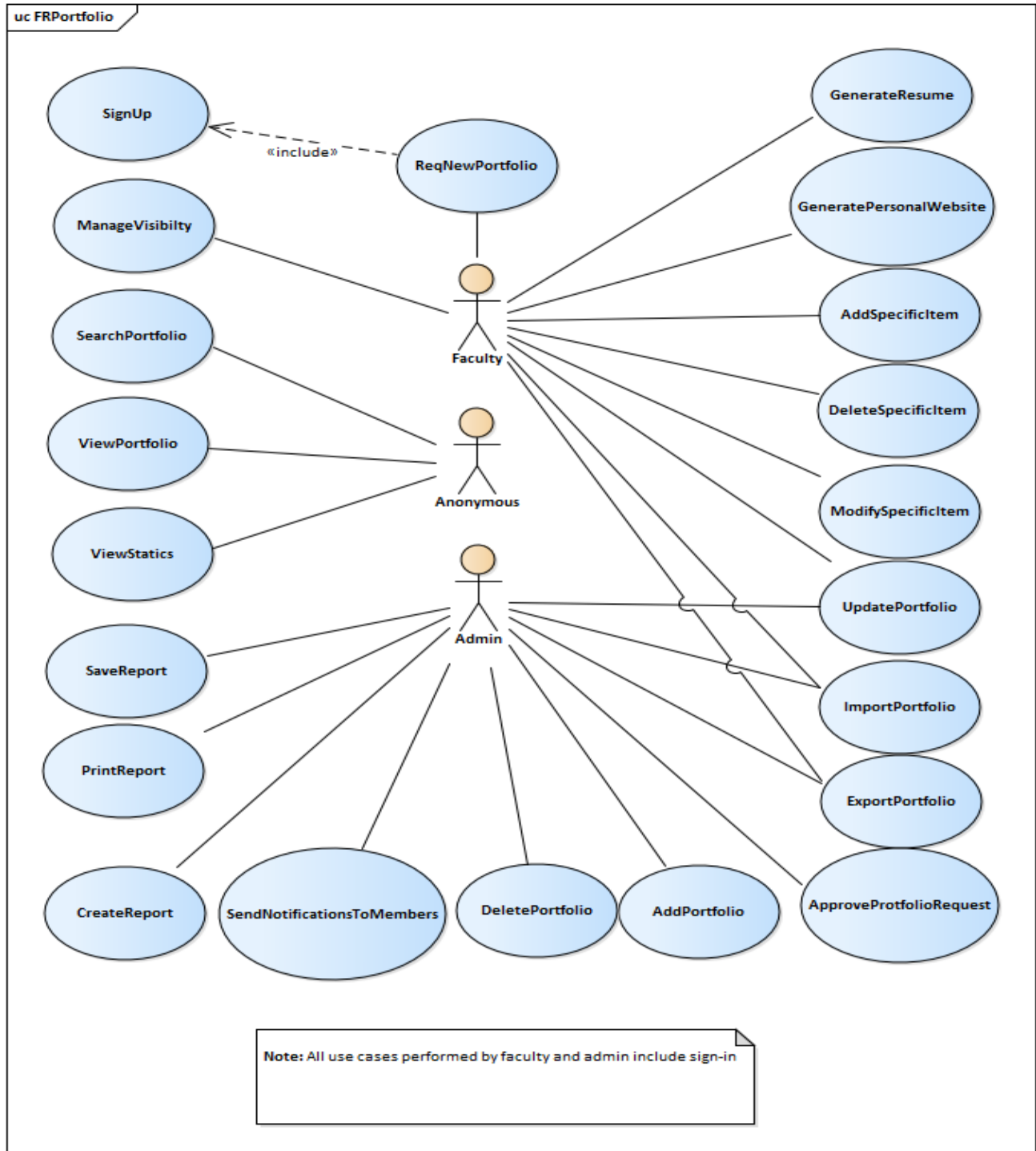
a) The system shall follow the guidelines and rules of KSA.
b) The project shall be implemented using html, CSS, Javascript, php, and MySQL.
c) The project modeling should be done on Enterprise Architect tool.
d) The project should be designed using UML and UWE as the modeling language.
e) The system server should be on CCSE server.
f) The web site passes the HTML and CSS validation test.

vii. Assumption and Dependencies

a) The system is used by KFUPM members only.
b) The system is used inside KFUPM only.
c) Faculty can publish publication directly or through an oranization.
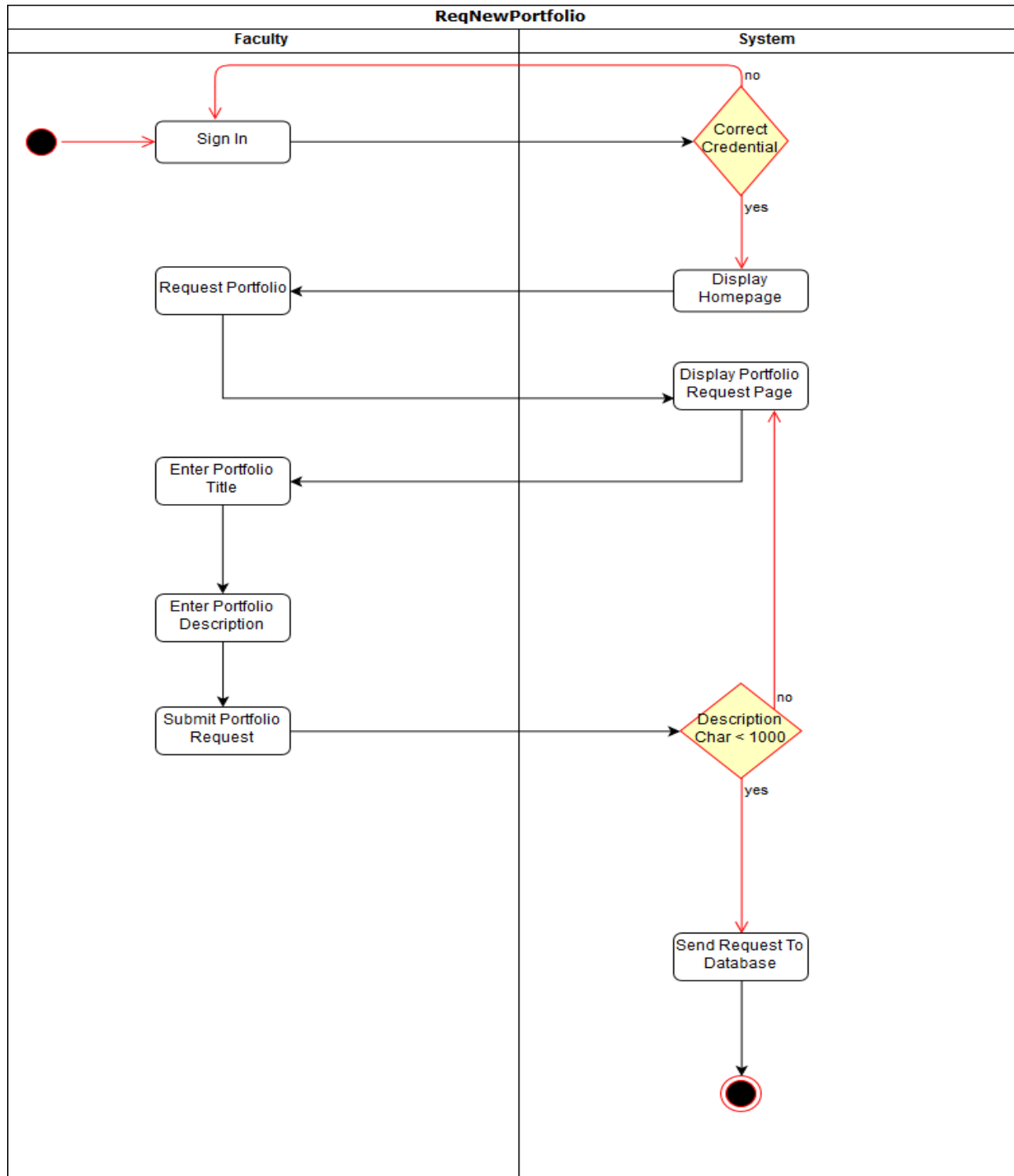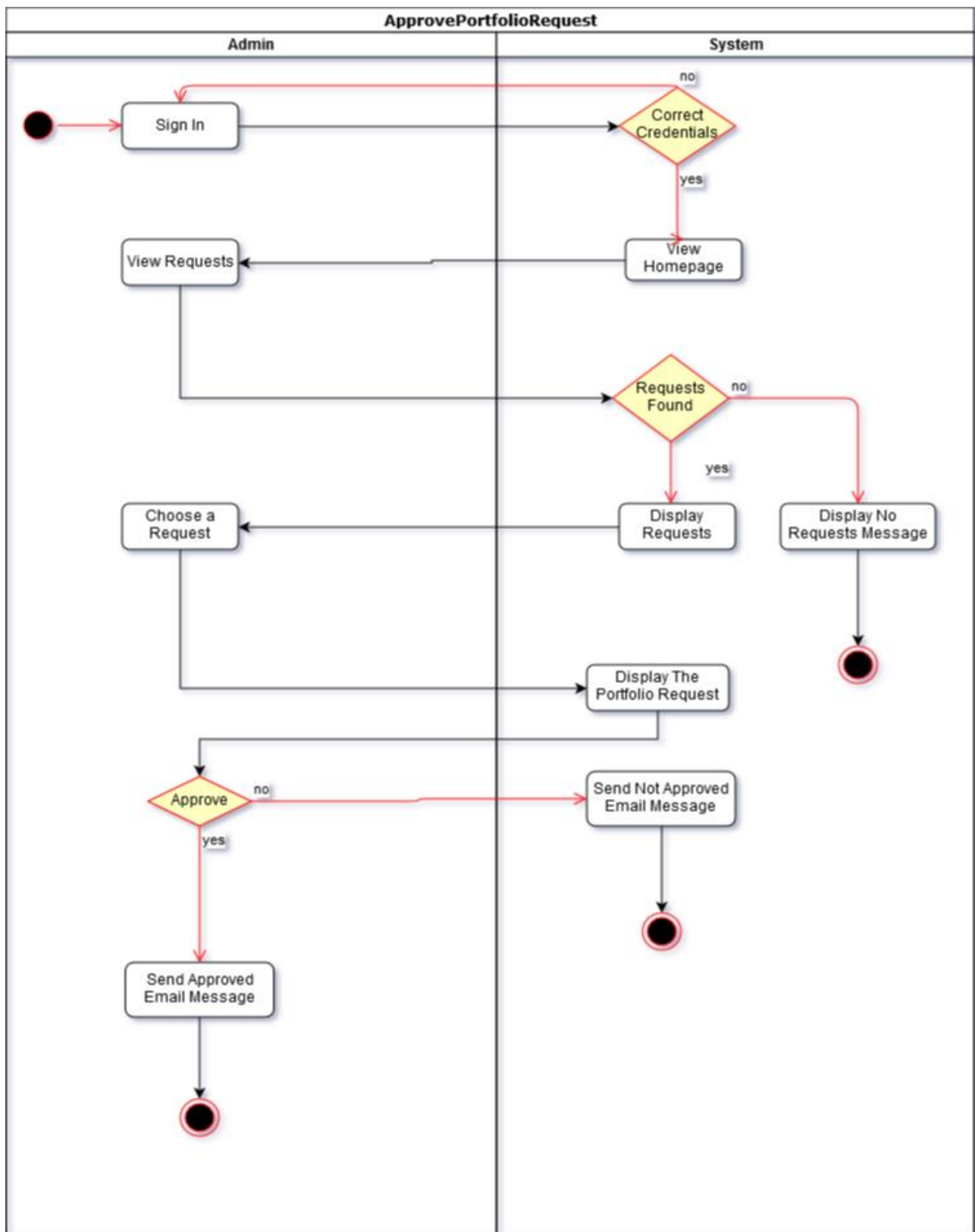
3. System requirements

i.   Use case Diagram

uc FRPortfolio

SignUp

«include»

ReqNewPortfolio

ManageVisibilty

SearchPortfolio

ViewPortfolio

Faculty

ViewStatics

Anonymous

SaveReport

Admin

PrintReport

CreateReport

SendNotificationsToMembers

DeletePortfolio

AddPortfolio

GenerateResume

GeneratePersonalWebsite

AddSpecificItem

DeleteSpecificItem

ModifySpecificItem

UpdatePortfolio

ImportPortfolio

ExportPortfolio

ApproveProtfolioRequest

Note: All use cases performed by faculty and admin include sign-in

4. Analysis Models

i. Activity Diagrams

4.1.1 Request new portofolio

ReqNewPortfolio

Faculty	System

Sign In

no

Correct Credential

yes

Display Homepage

Request Portfolio

Display Portfolio Request Page

Enter Portfolio Title

Enter Portfolio Description

Submit Portfolio Request

no

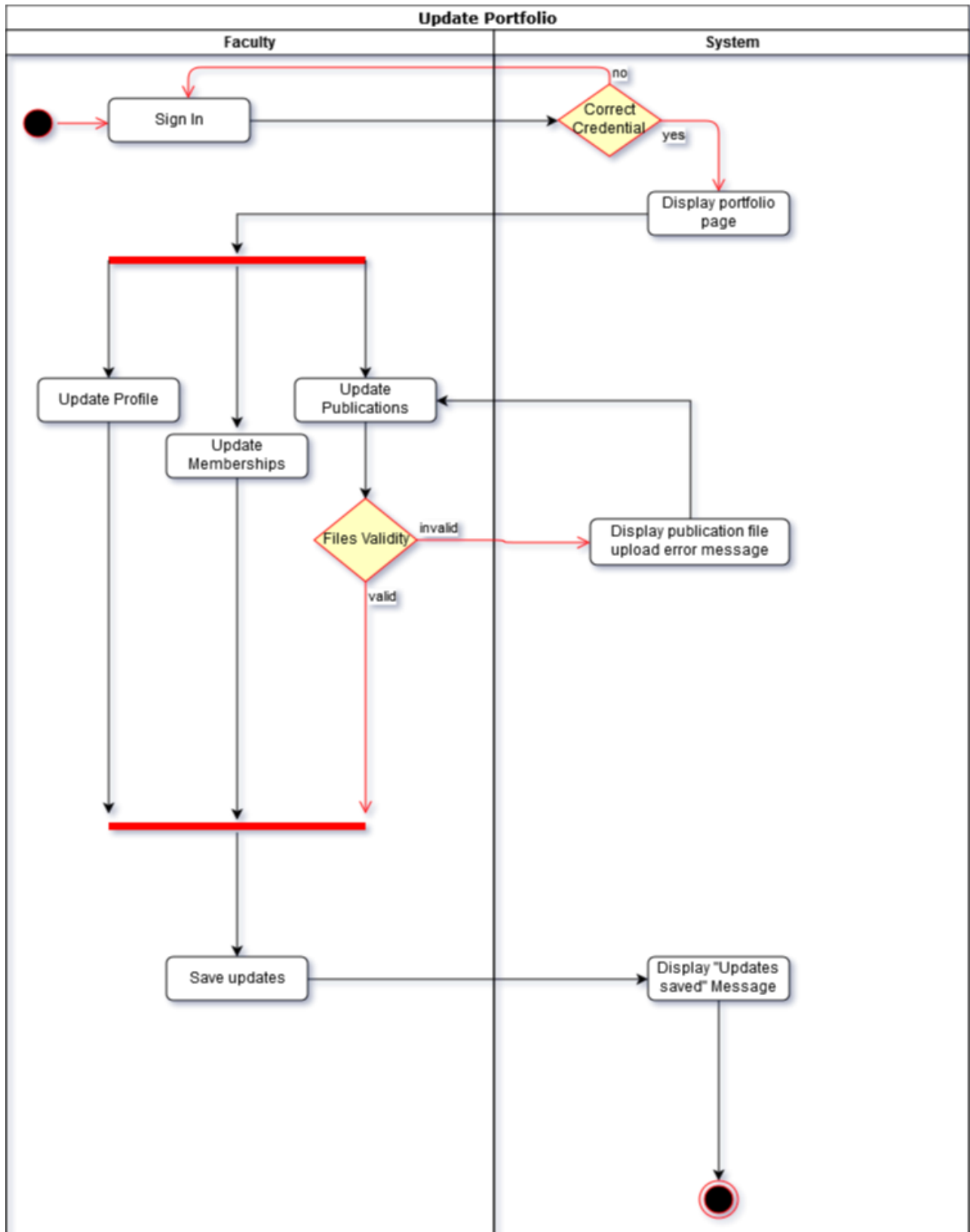Description Char < 1000

yes

Send Request To Database

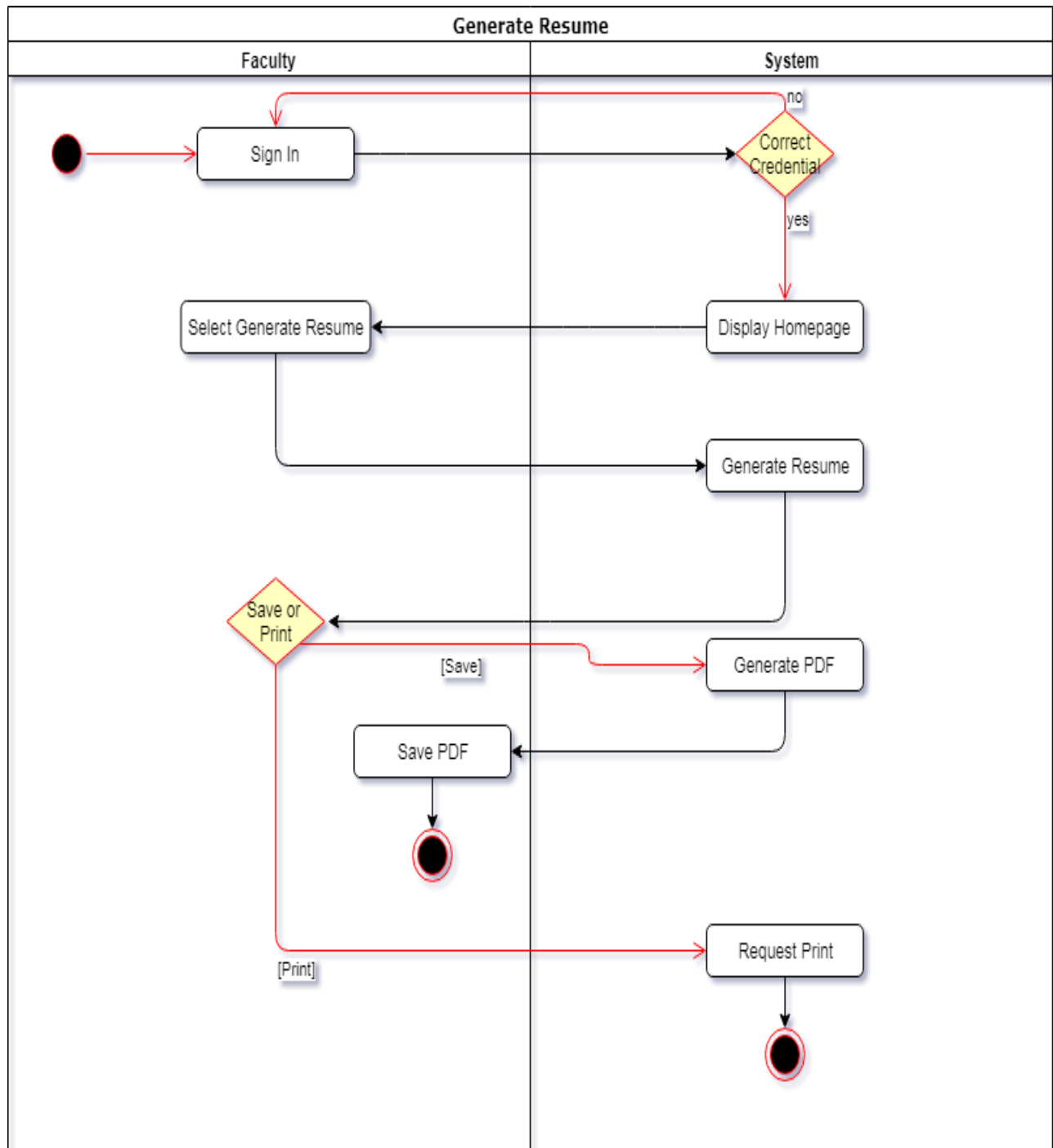## 4.1.2 Approve portfolio request

4.1.3   View Portfolio
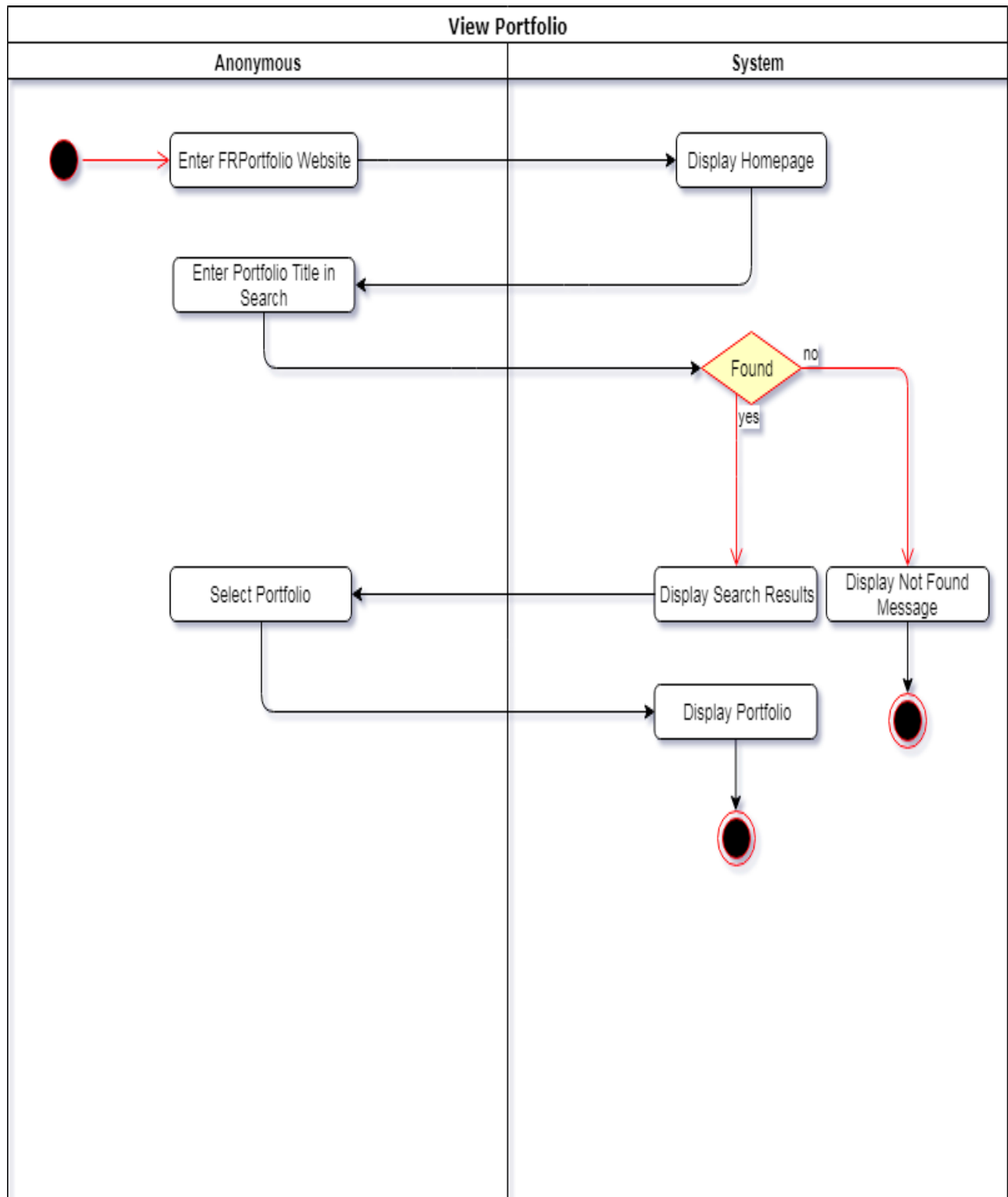
4.1.4 Update portfolio

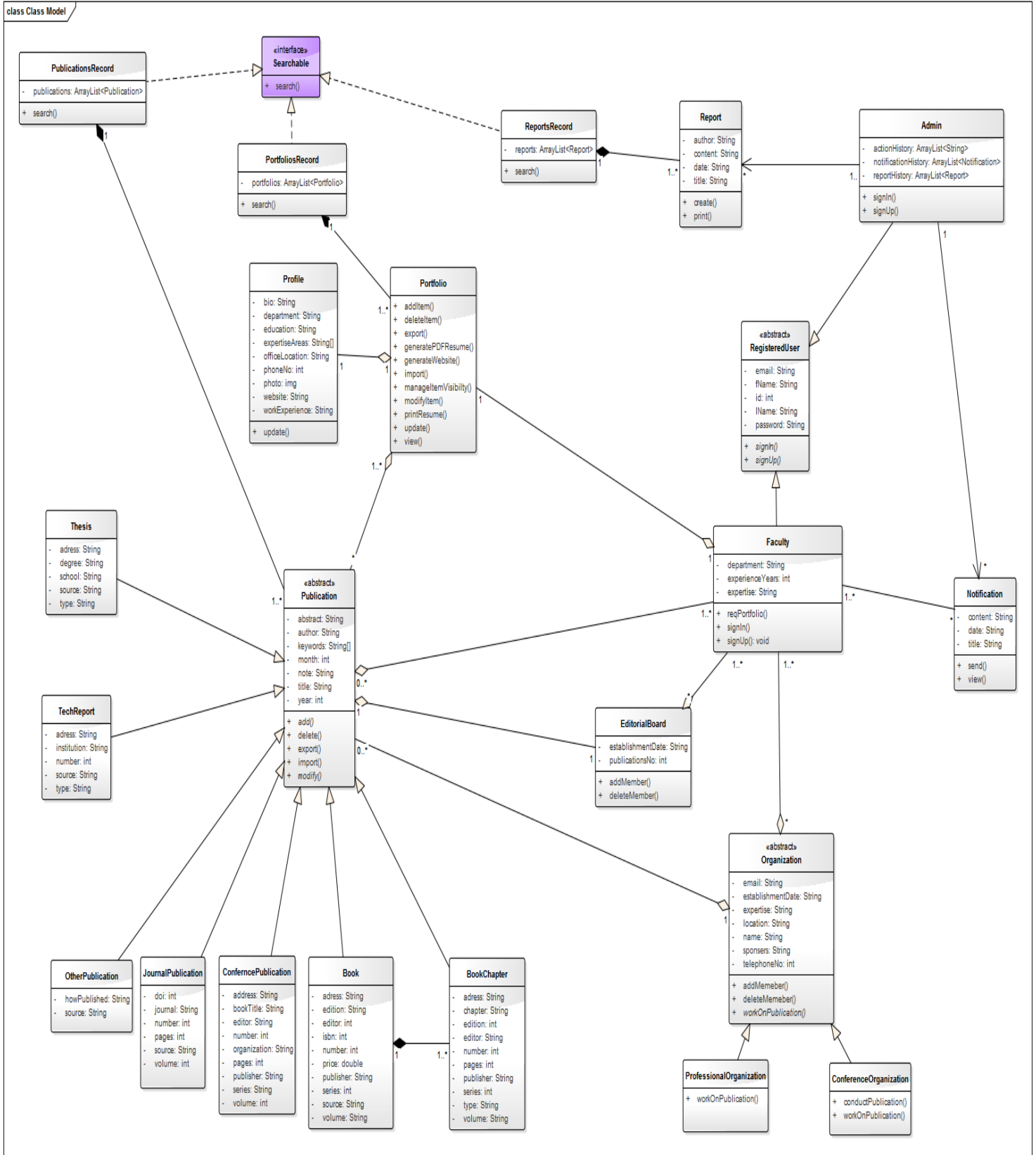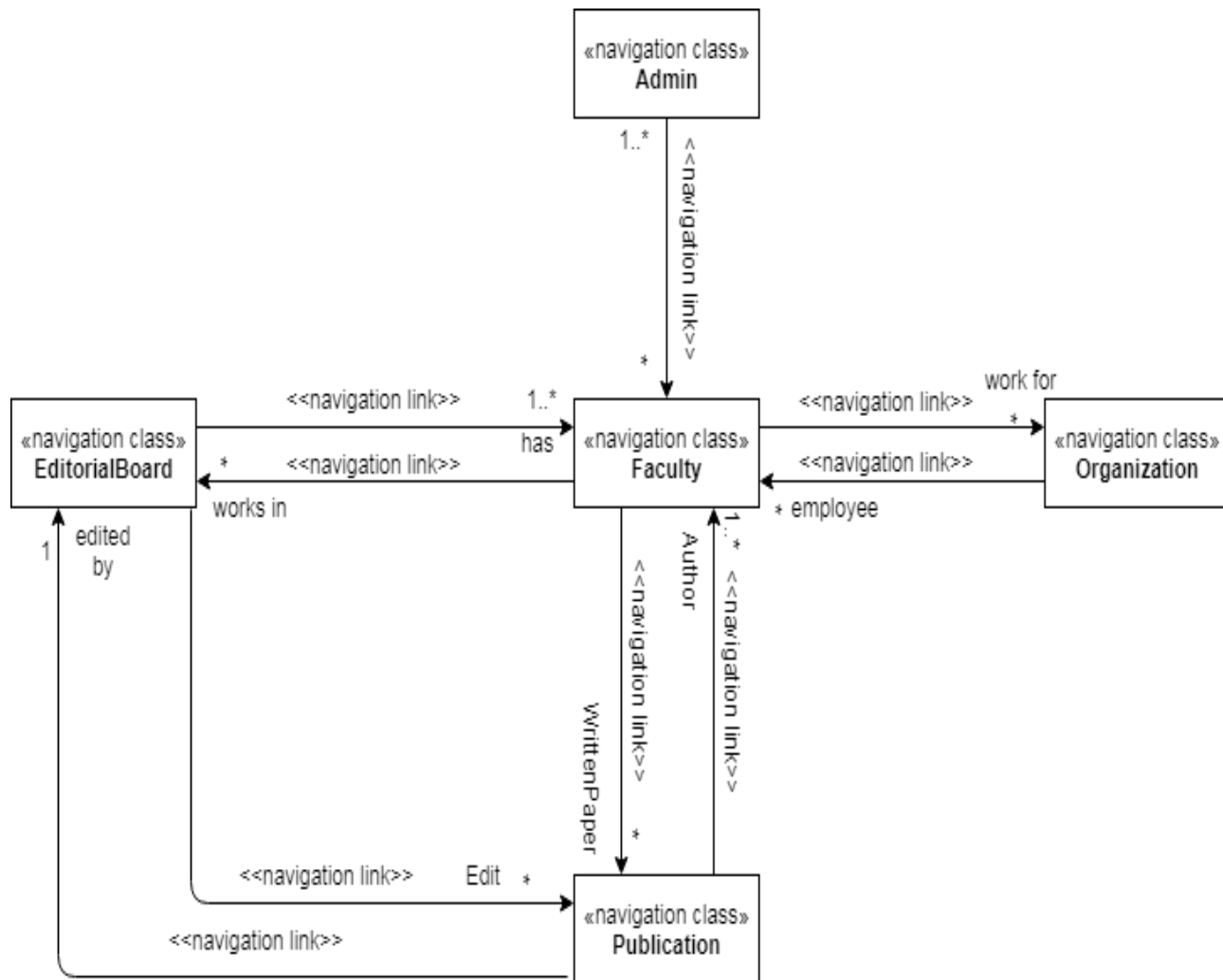## 4.1.5   Generate Resume

5. Class Diagram

6. Navigational Model

7. External interface Requirements

    i.   **User Interface Screens**