Cairo University
Faculty of Computers and Artificial Intelligent

CS251 - Software Engineering I

Campus Connect

Software Requirements Specifications (SRS)

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Software Requirements Specifications

Nov & 2025

Contents

Software Requirements Specifications

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1. Introduction

Campus Connect is a dedicated social platform for university students and staff. It enables academic collaboration, sharing of resources, and social engagement within campus communities.

2. Document Purpose and Audience

This document defines the functional and non-functional requirements of the Campus Connect system. It is intended for developers, testers, and stakeholders to ensure accurate implementation. The audience includes project team members, teaching assistants, and university administrators.

3. Definitions and Abbreviations

SRS – Software Requirements Specification
FR – Functional Requirement
NFR – Non-Functional Requirement
UC – Use Case
UI – User Interface
MVC – Model View Controller

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4. Problem Statement

University students face challenges forming meaningful connections in their academic communities. Campus Connect addresses this by providing features tailored to student life such as study groups, resource sharing, events, and communication.

5. Target Users

• University students
• University administrators
• Website administrators

6. Functional Requirements

1. FR1: User registration and login system
2. FR2: Profile management
3. FR3: Create, edit, and delete posts
4. FR4: Commenting on posts
5. FR5: Search functionality (people, posts, and communities)
6. FR6: Event creation and joining
7. FR7: Community creation and joining
8. FR8: Direct messaging between users
9. FR9: Sharing academic materials
10. FR10: Reporting inappropriate content
11. FR11: Admin moderation (banning posts and users)
12. FR12: Password reset
13. FR13: Notifications for posts and messages
14. FR14: Viewing campus services and maps
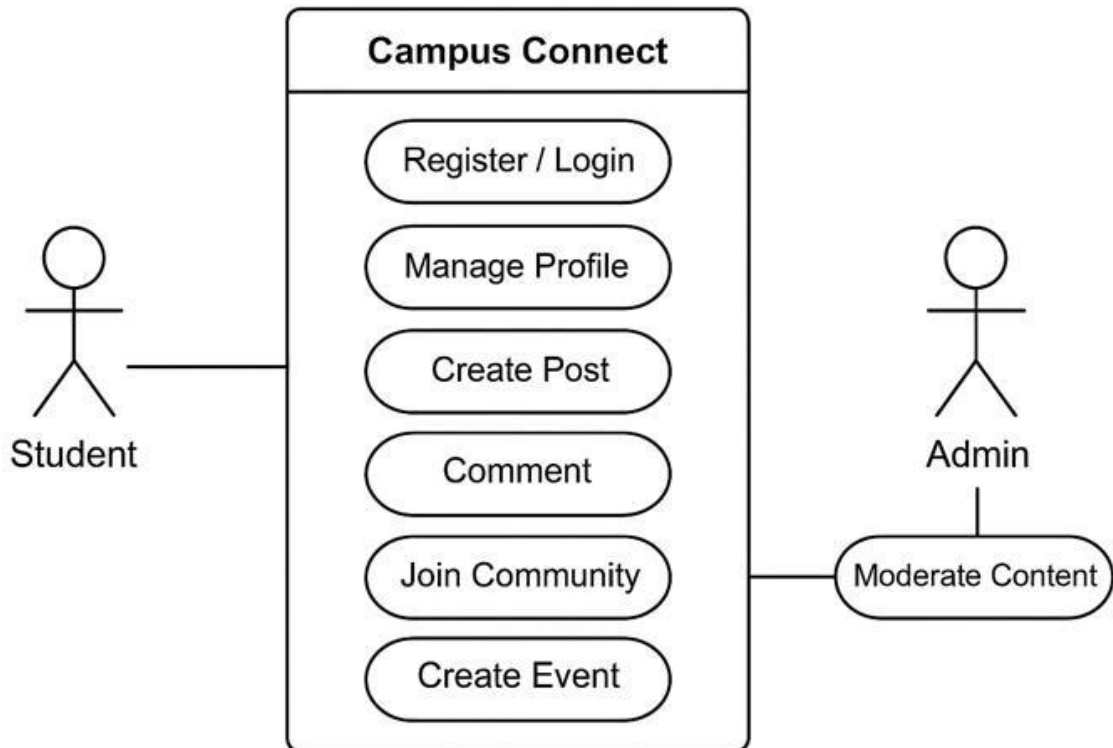15. FR15: Display system errors and user actions

7. Non-Functional Requirements

16. NFR1: System shall be available 24/7.
17. NFR2: Support at least 7000 concurrent users.
18. NFR3: User interface must be simple and responsive.
19. NFR4: Display user-friendly error messages.
20. NFR5: Ensure data privacy and security with encryption.

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21. NFR6: Follow SOLID design principles.
22. NFR7: Scalable for future growth.
23. NFR8: Average response time should not exceed 2 seconds.

8. Use Case Diagram

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Use Case Tables

Use Case ID:	UC1, UC2, UC3, UC4, UC5, UC6, UC7, UC8, UC9, UC10, UC11, UC12, UC13, UC14, UC15, UC16	
Use Case Name:	Register/Login, Create Post, Join Community, Send Message, Edit/Delete Post, Comment on Post, Search, Create/Join Event, Create/Join Community, Share Academic Material, Report Inappropriate Content, Admin Moderation, Password Reset, Notifications, View Campus Services/Map, Display System Errors	
Actors:	Student Admin System	
Pre-conditions:	User has access to the Campus Connect system. User has credentials (or intends to create new account).	
Post-conditions:	System authenticates user or creates account. User is redirected to homepage.	
Flow of events:	**User Action**	**System Action**
	1- User Enter Card and Password.	1- System verifies user credentials
	2- User clicks Login/Create Account	2- System Verify user data
	3- User Select Vodafone from the list	3- System loads homepage
	and so on	4- System retrieves Vodafone bills

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Exceptions:	**User Action**	**System Action**
	1- User Enter Card and Password.	1- System verifies credentials
	User cancels login	2- Card is invalid and unreadable. 3- System rejects cars.
Includes:	Password Reset (UC13) Notifications (UC14)	
Notes and Issues:	Ensure encryption is applied when user enters credentials. UI should provide clear error messages for invalid inputs. Consider timeout handling for login attempts	

Ownership Report

Item	Owners
1.3.4.6	*Faisal hassan*
2.8.7.5	*Mohamed amir*

https://github.com/mohammed0335/Campus-Connect-/tree/main