



# **CS251**

## **Software Engineering I**

Project Name

Software Requirements Specifications

**Team Names**

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## Document Purpose and Audience

The introduction of the Software Requirements Specification (SRS) provides an overview of the entire SRS with purpose, scope, function Requirements ,NonfunctionRequirements and overview of the SRS. The aim of this document analyze and give an in-depth insight of the complete **API** by defining the problem statement in detail

**The audience to read this document client , project manager , system analysis and system designer**

## 1. Introduction

### 1.1 Purpose of the system

This document purpose is to make a preview for our new API system which will be a social network, showing the goal of the project, functions that the program will be able to do , the design and how will the program will look like , who will be our audience .

Note: some of our functions may be modified while developing the system.

### 1.2 Scope of the system

Our project will be an API for a social network .this API will be a simple social network which can be developed later to service a small community like a school.

Our system will be as follow Users which is the main element in this system and it can make a group , page ,post ,like ,massage ,hashtag or adding another user and has many attributes like name ,age ,email ....etc. users can be normal or premier . Groups are one of what user can make and it can be private or public and managed by many users. Users create fan pages which managed by one or many users and it's attribute is the number of likes. Users make like to the posts they

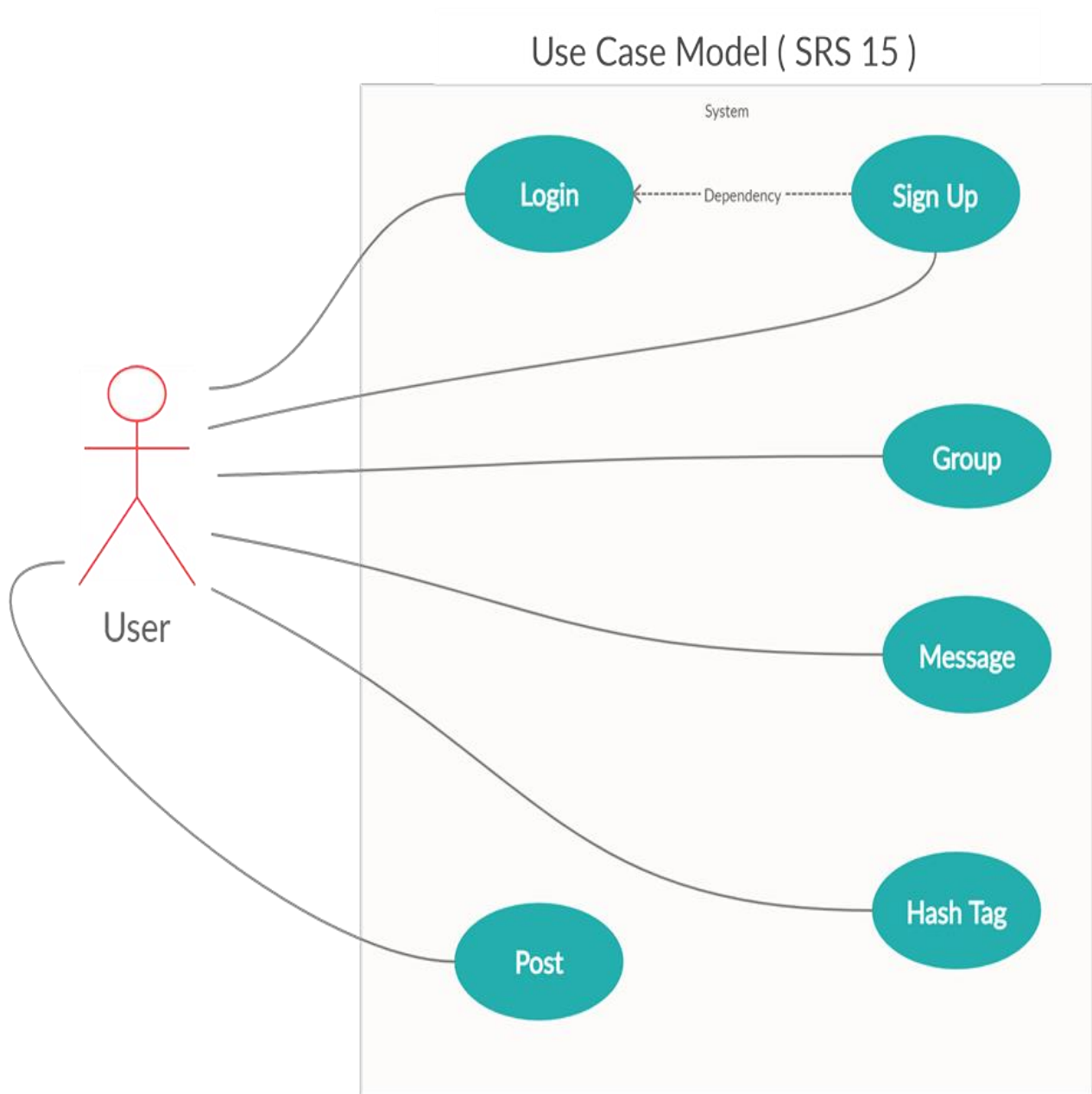
admire. User make hashtag# to organize a specific content of posts. Users send messages to other users in their friend list. Users send friend add request to other users to add them in their friend list.

Concept	Defintion
User	Anyone can be a user by sing up write his name and password if the name was exist before program ask him to enter again
Group	Group is a set of users collected together can share their needs in, group can be secret no one see posts accept them and could be not secret (public && private group ) group contain 2 types of users admin user and ordinary user
Post	user can write what he want , post picture and share photos and share it with his friends and they show it and can comment on it and do like
Message	Message is a private text from user to another no one can see it except them
Hashtag	Is and ordinary post but contain '#' and must contain '_' that make it shared with any one write this hashtag also can share a specific subject using it
API	a set of functions and procedures allowing the creation of applications that access the features or data of an operating system, application, or other service.

## Requirements

Functional Requirements	Comment
2.1.1 User	1. Anyone can be a user by sing up write his name and password, gender , valid code ,or sign in by enter name and password
2.1.2 Group	
2.1.3 Post	
2.1.4 Message	
2.1.5 Hashtag	

## Use case model



## Use case tables

Use case ID	1
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<b>Use case name</b>	Log in	
<b>actor</b>	User	
<b>precondition</b>	User sign up, sign in	
<b>Post-conditions</b>	User already exist so sign in or new so register to create new user	
<b>Flow of events</b>	User Action	System interaction
	Sign in	Check on name and password if correct sign in else ask user to resign in or register
	Register at it by enter his data name ,pass ,other ordered information	Check on name and pass and create account
<b>Includes</b>	None	
<b>exception</b>	Invalid information	Print error message
<b>Notes and Issues</b>	None	

<b>Use case ID</b>	2
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<b>Use case name</b>	Create group	
<b>actor</b>	User	
<b>precondition</b>	User login and create group	
<b>Post-conditions</b>	Group be Available for users	
<b>Flow of events</b>	User Action	System interaction
	User create group	Ask user for name, secret or public and description and some other info
	User enter all data ordered by system	System check all data and create group
<b>Includes</b>	None	
<b>exception</b>	None	None
<b>Notes and Issues</b>	This case owner for case 1 who create it	

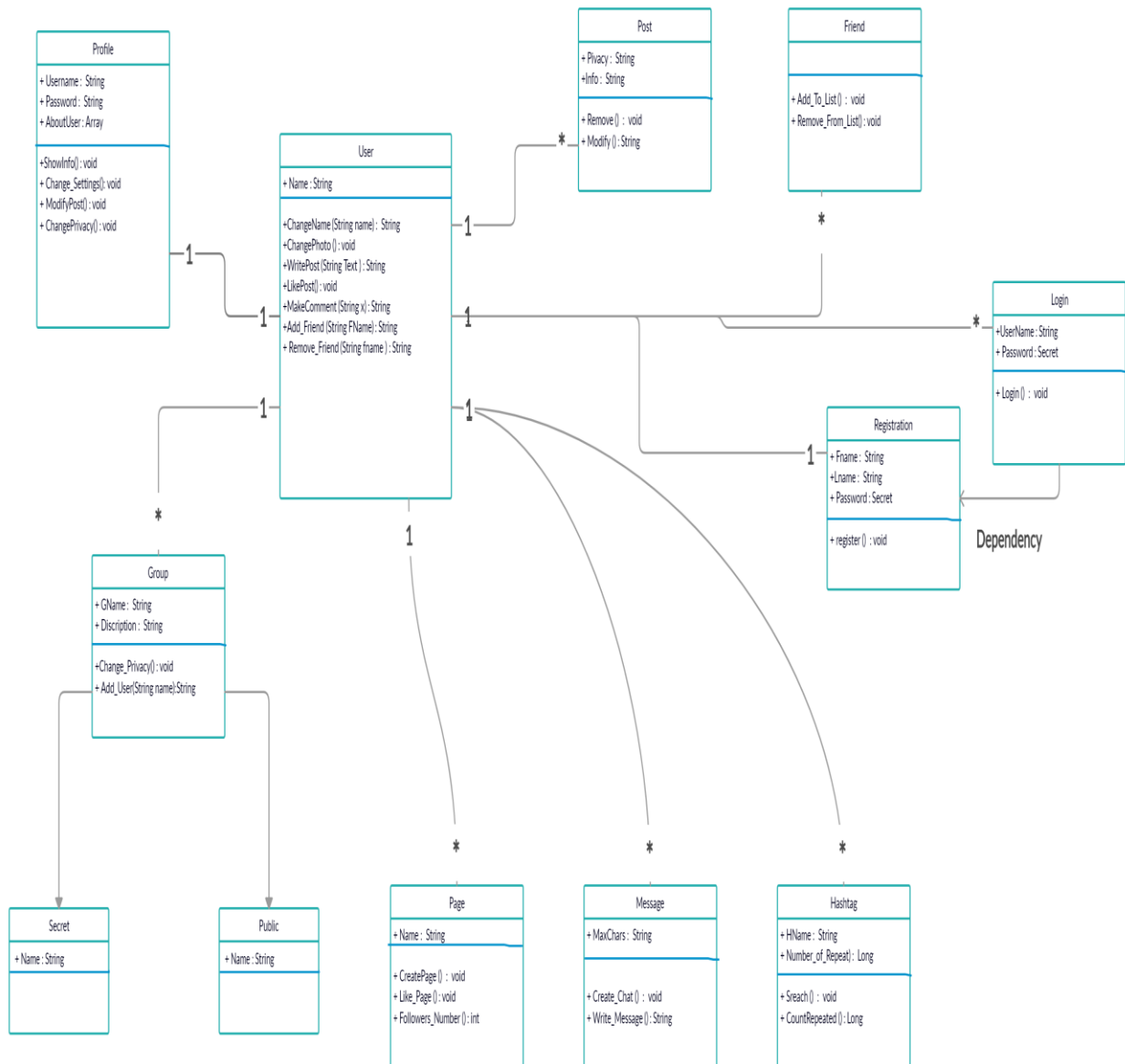
<b>Use case ID</b>	3	
<b>Use case name</b>	Write post	
<b>actor</b>	User	
<b>precondition</b>	User log in then write post	
<b>Post-conditions</b>	The Post arise and be available to anyone who has the authority to see it	
<b>Flow of events</b>	User Action	System interaction
	User write post and share it	System make it available to anyone who has the authority to see it
		If any one make like or comment appear on the post
<b>Includes</b>	None	
<b>exception</b>	Unwritten(empty)post	Invalid process to write post
<b>Notes and Issues</b>	None	

<b>Use case ID</b>	4	
<b>Use case name</b>	Write message	
<b>actor</b>	User	
<b>precondition</b>	User log in then write message and send it to other user	
<b>Post-conditions</b>	Gets the message to the other user	
<b>Flow of events</b>	User Action	System interaction
	User write message and select other user to send this message to it	
		Send message and let the other user see it
<b>Includes</b>	None	
<b>exception</b>	None	None
<b>Notes and Issues</b>	No one can see message Except them	

<b>Use case ID</b>	5	
<b>Use case name</b>	Write Hashtag	
<b>actor</b>	User	
<b>precondition</b>	User write post and write mark of hash tag ‘#’	
<b>Post-conditions</b>	Post add to the hash tag written	
<b>Flow of events</b>	User Action	System interaction
	User write post and write hash tag	Check if the hash tag exist if yes add post to it
		If no create hash tag then add post to it
<b>Includes</b>	None	
<b>exception</b>	Writing Hashtag without “ ” —	Undefined Hashtag

## Class diagram

## SRS 15 ( Social Network )



## Traceability Matrix

(NetWork / Functional Requirement number)	Use case id	Class name
1	#1	User
2	#2	Group
3	#3	Post
4	#4	Message
5	#5	Hashtag

## Ownership Report

Item	Owners
Introduction , System Purpose ,Scope	Mohamed ali farouk ali Mohamed ashour Mahmoud
Functional requirements , Use case tables	Mohamed ali farouk ali Mohamed ashour Mahmoud Ahmed gomaa farouk
Non functional Recuirments	Ahmed gomaa farouk Mohamed hamdy mohamed
Use case model , Class diagram , traceability matrix	Mohamed hamdy Mohamed Mohamed ashour mahmoud