Cairo University  
Faculty of Computers and Information



**CS251**

**Software Engineering I**

Social Network

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# Document Purpose and Audience

# The purpose of the document is to describe the requirements of the Social Network software project. The content of the document has an introduction about software scope and its scope. And also contains the requirements of the software system: Functional requirements that describe what the system should do, Non Functional requirements that describe how the system works.

* The target audience to read this document: Project Manager, System Designers, developers, tester and client (In this case is TA- Mohamed Samir).

# System Models

## I. System Decomposition

## 

## II. Class diagram

## List down your classes and describe them

| **Class ID** | **Class Name** | **Subsystem ID** | **Description & Responsibility** |
| --- | --- | --- | --- |
| 1 | Register | 1 | Let the new user to create a new account. |
| 2 | Friend | 2 | Let the logged user from having many friends. |
| 3 | User | 3 | Manage all the operations of user (post, share, comment…). |
| 4 | Admin | 4 | Manage all the operations of admin. |
| 5 | Account | 5 | Manage all the operations of users account (write posts, send messages…). |
| 6 | Post | 6 | Manage all the operations of post (can write this post on group, can write comments on this post, and share this post…). |
| 7 | Comment | 7 | User can write comments on posts. |
| 8 | Share | 8 | User can share posts, pages and groups. |
| 9 | Like | 9 | User can like pages, posts, and comments… |
| 10 | Page | 10 | User can write, share posts on it. User can like, follow and share pages. Users can also send messages to pages. |
| 11 | Group | 11 | User can write, share posts on it. User can follow and share groups. Users can also send messages to groups. |
| 12 | Hashtag | 12 | User can write posts that contains hashtags. |
| 13 | Follow | 13 | User can follow accounts, pages and groups. |
| 14 | Message | 14 | User can send messages to accounts, pages and groups. |

## 

## III. Sequence diagrams