



Cairo University

# CS251: SOFTWARE ENGINEERING-1- 2014

## SOCIAL NETWORK

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### SRS Doc TITLE: SN-API

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## Contents

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## Document Purpose and Audience

- This document has a description of a back-end API software, which is able to manage interactions between users, create and manage groups and pages, manage different type of posts and retrieve current posts in specific hashtag and sort these posts according to the most important post
- Audience of this document are developers-TAs-, and project managers.

## Introduction

### Software Purpose

- The purpose of this project is to develop a back-end API for social network. Something like Facebook API.
- This is to able you develop on a back-end API that is able to manage interactions between users, create and manage groups and pages, manage different type of posts and retrieve current posts in specific hashtag and sort these posts according to the most important post

### Software Scope

- This API software has Users, which use a social network, who creates accounts, connect with their friend users, by messages, posts, gathering in groups
- Users have types as Normal, premium.
- Groups have types as Public, Private, Secret.
- Posts can be controlled to be public, private.
- Hashtags for categorization of posts.
- Messages are to create chat between users, or group chat.

## Definitions, acronyms, and abbreviations

<u>API</u>	In computer programming, an application programming interface ( <b>API</b> ) specifies a software component in terms of its operations, their inputs and outputs and
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	underlying types.
<u>HASHTAG(#)</u>	Users use hashtags to categorize the content of specific post.
<u>DEVELOPER</u>	the user dealing with this document, to handle the API.

## Requirements

### Functional Requirements

- **Downloading the API:**
  - The user can choose the executable file of API from the Internet, files will be saved on the local file system of the development.
- **Installing the API:**
  - By decompressing the downloaded file, the user install the API on windows - the supported platform-.
- **User Operation:**
  - The developer can create two types of users (Normal user, Premium user), they will have common attributes such as name, email, gender, email, P.P(profile picture)...etc., but the Premium user will have extra attributes such as having the ability to login or create his own account on the social Network with his/her mobile number, Credit serial number.
  - Social network user can sign up or login - in case signed up- by his/her own username, password -in case login for Normal user -, extra email, mobile number is needed if signing up for both types of users. Email, and mobile number is an extra features for premium user to login.
  - Social Network user will sign up by writing his username, password,
- **Groups Operation:**
  - The developer should create and manage different types of groups ( public, private, secret), only premium users can create secret groups, for his own privacy with his friend users, while Normal user can create public groups.
- **Pages Operation:**
  - The developer should be able to create user-fan page-, with this component he/she should be able to create and manage user pages and maintain some important attributes ( eg: Number of users likes, Number of views), only premium user can create the Verified pages.
  - Only premium users can be admins for pages.

- Pages are created, where posts of the admin -premium user- are published to fans, to be liked, and shared.
- **Posts Operation:**
  - The social Network user will want to share his/her status in Social Network by writing posts. A post is a text-content written by the website user to express something and share it with other users, and the user has the ability to control who will see his/her posts. Post's privacy can be controlled to be public or private.
  - Social Network user can write a post, in which he/she can tag her friends, include images
- **Hashtags Operations:**
  - This operation is to categorize the content of specific posts, there must be a link between the hashing and its post
  - Posts should be sorted according to its importance and date.
  - Hashtags are written down by the users on their posts to be easily found on search engine.
- **Messages Operations:**
  - Social Network user can send messages to other user(s) in his friend list, be able to create message from user to user, get messages between two users or get messages from a specific group
  - Normal user can send messages and create a chat between his/her friend, send images, links, smileys.