

**CS251 – Software Engineering**

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# Team

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# Document Purpose and Audience

* **What's this Document?**

- This document is to present a detailed description to the related readers of this document about "Social Network back-end API". It will explain the purpose and features of the system, It’s interfaces, all functionalities of the system, constraints and restrictions that's agreed among stakeholders and developers and How the system actors interact with the system, and It will be proposed to the product owner for its approval.

* **Audience list:**

-Product owner

-Project manager

-Editor

-Designer

-Customer

# Introduction

## Software Purpose

## - Making a back-end API Social Network to make people all over the world to interact and telecommunicate together in different types of the interactions and telecommunications.

## Software Scope

## - This software will be a back-end API social network like "Facebook".

## - You can sign up to this social network system and you will be registered to signin later.

## - It will make people's to stay connected simply and share every moment together.

## - You can easily catch up with friends with their photos, videos and their posts.

## - You can categorize as a (normal, premium user) to specify your authorities to the system.

## - Making posts with It's hashtag to make the post categorized by its importance.

## - Like and sharing your friends posts who are in your friend list.

## - send messages to your friends and displaying them if you need it , It can be between two or more.

## - You can make a fan pages to your product to make your business.

## - User can make a group and be admin on it and give any other users to be administrator on it too.

## - making posts on your page and specify it's privacy (to who will see it), Or make posts in you profile page and your friend profile page.

## - Anyone can tag their friends to notify them to see his post.

## Definitions, acronyms, and abbreviations

|  |  |
| --- | --- |
| Terms & Abbreviations | Definition |
| Social Network | Individuals or groups that interacts together on an interconnecting network ( e.g. catch up friend's photo, videos or status and send messages..etc). |
| Back-end API | It's a term in computer programming that's abbreviated "Application Programming Interface(API) " , that's specifies a software component in terms of it's operation , Allowing both definition and implementation to vary without comprising each other, Can be used to ease the work of programming "Graphical User Interface" Components. |
| Post | It's a text that describes the status of the post writer. |
| Normal User | A user that has a limited rights or authorities on the system. |
| Premium User | A user that has some authorities more than the normal user. |
| Administrator | Anyone can manage and admin the system. |
| Profile | It's a page that contains all information about the profile owner. |
| Fan page | A web page that describes a product or a popular thing which has fans. |
| Group | Some of people who interact together. |
| Hashtag(#) | It categorizes the posts that’s written (e.g. write post about "#Sport") it will put this post with posts that has the same hashtag #Sport. |
| Tag (@) | Notifying friends by write tag symbol (@) and his name (e.g. @Hazem Ashraf). |
| Friend List | A list of your friends that you are choosing. |
| Hashtag importance | It will be leveled by its user (e.g. Premium user has posts with more important than Normal User). |
| Sharing a post | An action that allows you to duplicate a post to anywhere authorized you want. |
| Like a post | An action that describes the state of like to a certain post. |
| Sign up | Procedures to make an account on the system with your information needed. |
| Sign in | Procedures to enter to the system with your ID and Password. |

# 

# Requirements

## 1. Functional Requirements

Introduction –

This document contains the requirements for the Social Network Back End API. These requirements are organized by the features discussed in the project problem statement. Features from project problem statement are then refined into use case diagrams and to sequence diagram to best capture the functional requirements of the system.

## 1.1 Signing up for the server

### 1.1.1 The system should allow the user to type his/her details such as( full Name , e-mail address , password , gender , birthday …. etc. ).

### 1.1.2 The system should investigate from the validity of the information that the user entered to the system.

### 1.1.3 The system should notify the user if there is an existing account with the same data he/she entered

### 1.1.4 If it valid, the system should create a new account on the server

## 1.2 Signing in on the server

### 1.2.1 The system should allow the user to enter his/her data such as (user name , password)

### 1.2.2 The system should investigate from the validity of the information that the user entered to the system. If it valid, the system should login the server.

## 1.3 Maintain customer profile.

### 1.3.1 The system should allow user to create profile and set his credential

### 1.3.2 The system should authenticate user information to view the profile.

### 1.3.3 The system should allow user to update the profile information

## 1.4 Create fan page

### 1.4.1 The system should allow user to enter the type of this page or the purpose for The system should maintain some important attributes for it (e.g. name, profile picture and cover picture)

### 1.4.2 The system should allow the user to invite people to like his/her page

## 1.5 Create a group

### 1.5.1 The system should ask the user to enter the privacy of the group (e.g. public, private or secret group)

### 1.5.2 The system should maintain some important attributes for it (e.g. name, profile picture and cover picture)

### 1.5.3 The system should allow the user to add another users to join his/her group

## 1.6 Writing a post

## 1.6.1 The system should ask the user about the post type (user post, page post, post written by premium users)

### 1.6.2 The system should allow the user to write his/her post in the specific place of writing posts

### 1.6.3 The system will publish this post on the user’s profile

### 1.6.4 The system should allow another users (just only friends of the user wrote the post) to like and share and also comment on the published post

### 1.6.5 The system will counting (number of likes, number of shares)

## 1.7 Hash tag

### 1.7.1 The user can categorize his post by using the Hash tagsymbol before the post like that (#education)

### 1.7.2 The system should display all the posts about education categorized by the published user as the premium user’s post will Preceded the ordinary users’ post

## 1.8 Messages

### 1.8.1 The system should maintain the type of the message as there are many types of message (the message from user to any other user(s), or get messages between 2 users, or get messages in specific message group (which contains more than 2 users) )

# Ownership Report

|  |  |
| --- | --- |
| **Item** | **Owners** |
| Document Purpose and Audience + Introduction | * *Hazem Ashraf* * *Aya Alaa* |
| Functional Requirements | * *Ahmed Tarek El-Kordy* * *Ibrahim Desouky* |