



Course name: Software engineering-1

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1.Team

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2-Document Purpose and Audience

2.1-What is this document?

This document is about to outline the requirements and steps of the API application to create the social network for staff and students of Cairo university .

2.2-The target audience to read this document.

Developers ,project manager, software engineering manager, administrator and some TA in FCI faculty.

3-Introduction

3.1-Software Purpose

This software aims to represent a something that we can interact through it like Facebook , twitter and LinkedIn but in small scale, for Students and staff (that includes Doctors ,TAs) of Cairo university using API application.

3.2-Software Scope

The software that describes in this document is a social network using API application , this software aims to help students to interact with doctors or TAs in any faculty in the Cairo university and gain some experience of last experiments of TA's and Doctors only if they have an account to can access and this account will include user's faculty and his ID to prevent students outside Cairo university to join in this software , in this software we will focus on the following aspects (1.Doctors and TAs info and their Faculty 2.Doctors and TAs

schedule 3.Students info and their knowledge about their Faculty 4.the total information for every faculty in Cairo university made by Doctors, TAs and students of this faculty and it can edited in any time and this page will be as public page.)

This system will provide implementation and design that may edited or improved in the future .

The benefits of this software

1-help graduated students from high school to know some information and study about specific faculty.

2-help doctors to interact together and change their knowledge and science .

3-help younger university to benefit from greater university on specific course or project.

3.3-Definitions, acronyms, and abbreviations

Users : is any one in treat with this software like (Developer , Designer , Doctors , TAs, Students)

When Doctors and TAs can be categorized as Staff members but Students can't be as staff member ,Developer is someone who built the implantations of software , Designer is someone who responsible for the whole software form like colors ,size, shape and so on,

TAs is a group of graduated students who teach to the faculty's student and help Doctors in any thing like marks .

API :One of the secondary purposes of an API is to describe how computer applications and software developers may access a set of functions without requiring access to the source code of the functions or requiring a detailed understanding of the functions' internal working.

Post : defined as text content written by specific user, any other friend user can "**like**" this text content or **share** it on his/her personal page. User can write post in his/her personal page or in joined groups. If user owns a page, user can write a post in his/her profile.

Groups/pages :may some faculties or users create Groups or pages for specific something and add specific users in it to share or talk about something private between them and this Groups or pages managed from specific users

Like : it's expression about post that liked to user.

Share : it's also expression about post that liked user and he want it in his personal page.

Hashtag : it's a post ,simply is more like a conversion between group of people and every one write his opinion ,it may also be usage to speciefies faculty ,Department and so on ,and it starts with #.

Project : is a specific task that ordering from students about specific something like graduated project.

Administrator : System administrator who is given specific permission for managing and controlling the system and he also responsible for whole data .

4-Requirements

4.1-Functional Requirements

1-Registration

1.1-Taken username and E-mail

1.2-Taken first name

1.3-Taken last name

1.4-Taken faculty

1.6-Taken age

1.7-taken gender

1.8-taken some info like his dream, daily scheduling, his level ,his skills and work experience if he has.

1.9-done and submitted form then the user now have an account .

2-login

2.1-user enter username and his password

2.2-providing forgot password option

2.3-submitting email with ID and getting the user info from this ID

2.4-submission of login

3-Create group or page

3.1-first he must login ,click button create, then choose group or page

3.2-write the name of this group or page

3.3-write description and some info

3.4-choose to make it public or private

3.5-adding users as members

3.6-promot some members to be admin.

4-update info

4.1-from button settings click on it.

4.2-chosse his updated section and write his news.

4.3-click on done button to make it public.

5-logout

5.1-click on his name

5.2-appear a list

5.3-choose logout.

6-post

6.1-choose where he want to write a post in his page or in a group

6.2-on the square appears write his post

6.3-click on done button

7-like /share

7.1-there are two buttons up the post

7.2-if he want this post on his page click on share button

7.3-if he just liked it click on like button.

8-Deactive

8.1-end user can Deactive his account/ page/ group from settings if he no longer need this.

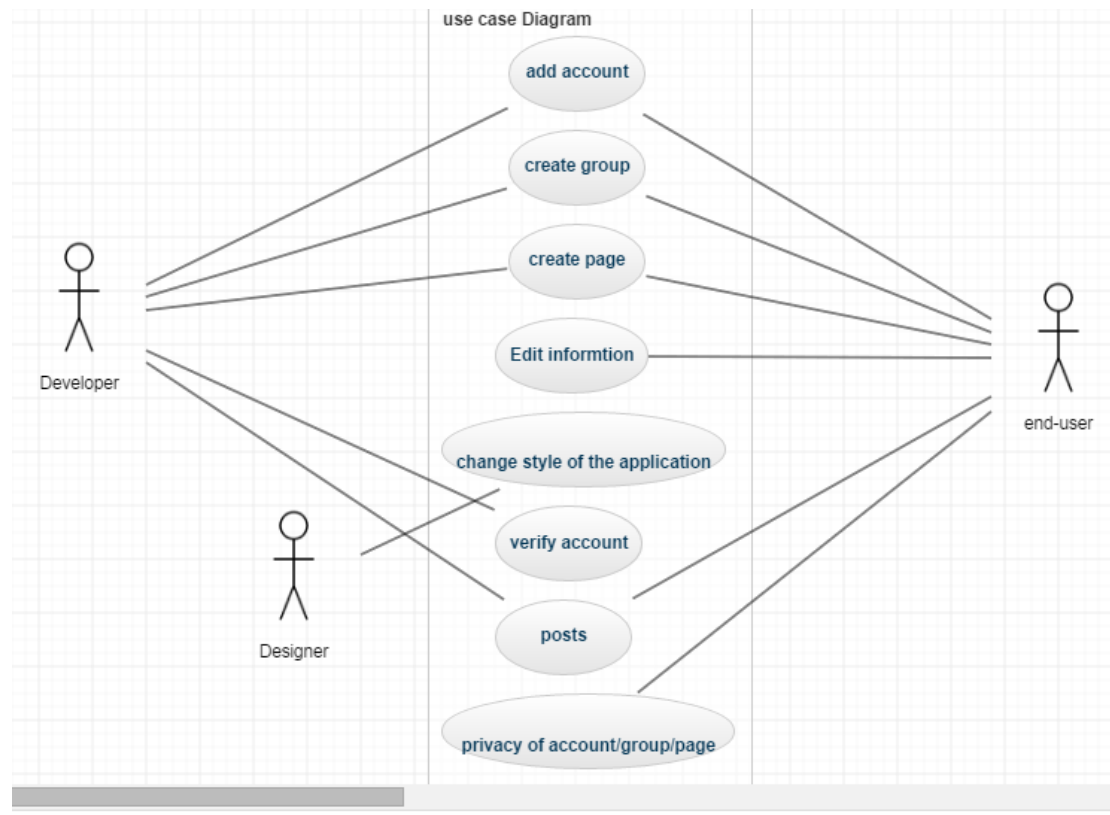
8.2-Adminstractor can Deactive account/ page/ group is its content violates application rules.

4.2-Non Functional Requirements

	Details
Usability	As it's an internet social media, must have some usability features end users of this system from various skilled groups, so that we can't restrict them by providing some facilities to make them comfortable like (colors must be attractive ,labels that used must be in understandable and so on).
Performance	The performance of this software depends on software, hardware and internet access speed of the user .
Security	this site will be security and any trying to change in some personal info will be notify by email.
Maintainability	This software provides the future change and maintainability.

5-System Models

5.1-Use Case Model



5.2-Use Case Tables

Use Case ID:	1	
Use Case Name:	Add account	
Actors:	User	
Pre-conditions:	Open the page that contains his personal information and some steps to follow it.	
Post-conditions:	Have the account and then can do any thing he like.	
Flow of events:	User Action	System Action
	1- User open the link and add account .	
		Page open and some steps to follow.
	2.after finish .	
		System send an email to confirm

		this account
Exceptions:	If the user wrote an invalid e-mail the user will be take him to the else condition to appear “this is invalid e-mail” message	
Includes:	1. The user clicks on sign up. 2. The developer calls the function creating new account . 3. the user fill the information that is desires to create account function ends its work .	
Notes and Issues:	The function of creating a new account may take several seconds to check if all the user information is correct.	

Use Case ID:	2	
Use Case Name:	Login	
Actors:	User	
Pre-conditions:	Write his username and his password	
Post-conditions:	Having the ability to posts ,likes, shares, or edit his info	
Flow of events:	User Action	System Action
	1- user write his username and password	
	.	System open his home page
	3- if the user forget password, he click forget password button	
		System send an email that contains ID, by this ID he can write new password
Exceptions:	If the user wrote his password wrong the developer will call the function “forget your password” or the username is invalid	
Includes:	1.the user clicks on login. 2.the developer calls the function login . 3. The user enters in the function his user name and his password and then	

	functions ends up.
Notes and Issues:	the user have to write the username and the password correct in order to redirect to his account ,the function that check for the username and the password may takes few seconds in order to search for them in the database.

Use Case ID:	3	
Use Case Name:	Create group or page	
Actors:	Users or developer	
Pre-conditions:	Choose what he want , then follow steps to create it	
Post-conditions:	Have a page or group that share it with friends	
Flow of events:	User Action	System Action
	1- user click on create button then choose group or page.	
		System shows a form that contain some empty squares to fill it
	2-after finish	
		System requires members to added in it and admin
Exceptions:	No exceptions.	
Includes:	1. The user clicks on create group or page. 2. The developer calls the function “creating a group or a page”. 3. The user fill the information desired to create a page or a group the function ends up.	
Notes and Issues:	The user cannot create a group of more than 20 member s, and the same user cannot create more than 3 pages or groups.	

Use Case ID:	4	
Use Case Name:	Edit information	
Actors:	User	
Pre-conditions:	Old information	
Post-conditions:	Update information (new)	
Flow of events:	User Action	System Action
	1- User choose edit from settings	
		System open page contains all about the user.
	2-user chose what he want to update and write it ,then click done button	
		System updated his info and write automatically post about this updated.
Exceptions:	No exceptions.	
Includes:	1. The user selects the function editing information. 2 The developer calls the function "editing information" 3. After the user fell all information he wants to edit the function ends its work and update new information.	
Notes and Issues:	No issues.	

Use Case ID:	5
Use Case Name:	Change style of the application
Actors:	Designer
Pre-conditions:	Access to the current options of style and make something new
Post-conditions:	All application updates automatically this new

Flow of events:	User Action	System Action
	1- Designer choose what he want to make change on it	
		System shows current style that designer choose.
	2. Designer implements his new and click done.	
		System update automatically this change on all accounts/pages/groups
Exceptions:	No exceptions.	
Includes:	1. The user click on changing style . 2. The developer calls the function changing style . 3. When the user selects the style he want. 4.The function finishes its work and update the style to the user.	
Notes and Issues:	No issues.	

Use Case ID:	6	
Use Case Name:	Post	
Actors:	End user	
Pre-conditions:	Write what in his mind	
Post-conditions:	What he wrote in his personal profile	
Flow of events:	User Action	System Action
	1- user open the square and write his post.	
		System make no action until he click on done button.

	2.when user click done.	
		System update automatically his post and make it public to any one can see it.
Exceptions:	If the user write a post that including obscene words the “creating post” function will redirect him to the else condition and print “this post cannot be created” .	
Includes:	1.the user click on creating post 2. The developer calls the function creating post. 3. When user click done. 4. The function finishes its work and update the user post.	
Notes and Issues:	If the same user post two posts with obscene words the developer will call the function deactivate automatically to remove this user from the system.	

Ownership Report

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